

PUBLIC NOTICE

The Iowa Department of Natural Resources (DNR) is proposing to renew the Title V Operating Permit for POET Biorefining - Menlo, LLC. This facility is located at 3363 Talon Avenue, Menlo, IA 50164. DNR is currently reviewing an application for renewal submitted by POET Biorefining - Menlo, LLC to operate their existing Industrial Organic Chemicals Facility (SIC 2869).

POET Biorefining - Menlo, LLC is required to obtain a Title V Operating Permit pursuant to 567 Iowa Administrative Code (IAC) 24.101. This facility has the potential to emit the following air pollutants annually:

PM-2.5 (particulate matter 2.5 microns or less in diameter): 67.51 tons

PM-10 (particulate matter ten microns or less in diameter): 70.17 tons

Particulate Matter: 79.37 tons

Sulfur Dioxide: 90.94 tons

Nitrogen Oxides: 98.56 tons

Volatile Organic Compounds: 180.99 tons

Carbon Monoxide: 102.37 tons

Lead: 0.00 tons

Hazardous Air Pollutants: 10.70 tons

Based on the information provided in the Title V Operating Permit renewal application, the DNR has made an initial determination that the facility meets all the applicable criteria for the issuance of an operating permit specified in 567 IAC 24.107.

A copy of the Public Notice is available for public inspection at the:

Menlo Public Library
504 5th Street
Menlo, Iowa 50164
Phone: 641-524-4201

These documents are also available on the Air Quality Bureau's website at:

www.iowadnr.gov/titlev-draft

For additional information or for a copy of the draft permit or fact sheet contact:

Taylor Dailey
Iowa Department of Natural Resources - Air Quality Bureau
6200 Park
Ste #200
Des Moines, Iowa 50321
Phone: (515) 725-9539
E-mail: Taylor.Dailey@dnr.iowa.gov

A complete record of the permit review, including the renewal application and the draft permit, is available for public inspection Monday-Friday, 8:00 a.m. - 4:30 p.m., at the DNR address shown above.

The public comment period for the draft permit will run from July 30, 2026 through August 29, 2026. During the public comment period, anyone may submit written comments on the permit. Mail signed comments to Taylor Dailey at the DNR address shown above. The beginning date of this public comment period also serves as the beginning of the U.S. Environmental Protection Agency's (EPA) 45-day review period, provided the EPA does not seek a separate review period.

Written requests for a public hearing concerning the permit may also be submitted during the comment period. Any hearing request must state the person's interest in the subject matter, and the nature of the issues proposed to be raised at the hearing. DNR will hold a public hearing upon finding, on the basis of requests, a significant degree of relevant public interest in a draft permit. Mail hearing requests to Taylor Dailey at the DNR address shown above.

DNR will keep a record of the issues raised during the public participation process, and will prepare written responses to all comments received. The comments and responses will be compiled into a responsiveness summary document. After the close of the public comment period, DNR will make a final decision on the renewal application. The responsiveness summary and the final permit will be available to the public upon request.

Individuals with disabilities or limited English proficiency are encouraged to participate in all DNR activities, including submitting public comments. If a reasonable accommodation or language services are needed to participate, contact the Air Quality Bureau staff member listed or Relay Iowa TTY Service at 800-735-7942 in advance to advise them of your specific needs. DNR's language access and disability nondiscrimination plans are available at <https://www.iowadnr.gov/about/nondiscrimination-accessibility-language-access>.

Iowa Department of Natural Resources Title V Operating Permit

Name of Permitted Facility: Poet Biorefining - Menlo, LLC
Facility Location: 3363 Talon Avenue, Menlo, IA 50164
Air Quality Operating Permit Number: 15-TV-006R2 DRAFT
Expiration Date:
Permit Renewal Application Deadline:

EIQ Number: 92-6956
Facility File Number: 39-06-002

Responsible Official

Name: Chris Morey
Title: General Manager
Mailing Address: 3363 Talon Avenue, Menlo, IA 50164
Phone #: (641) 860-4290

Permit Contact Person for the Facility

Name: Gregg Lawson
Title: EH&S Specialist
Mailing Address: 3363 Talon Avenue, Menlo, IA 50164
Phone #: (641) 860-4289

This permit is issued in accordance with 567 Iowa Administrative Code Chapter 24, and is issued subject to the terms and conditions contained in this permit.

For the Director of the Department of Natural Resources

Corey McCoid, Supervisor of Air Operating Permits Section

Date

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Abbreviations

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

Pollutants

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

I. Facility Description and Equipment List

Facility Name: Poet Biorefining - Menlo, LLC

Permit Number: 15-TV-006R2

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

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
EP S20	EU P20	Grain Receiving/Handling	06-A-1180-S3
	EU P20A	Grain Bin A	
	EU P20B	Grain Bin B	
EP S25	EU P25A	Steel Grain Bin	14-A-416
	EU P25B	Steel Grain Bin	
EP S30-1	EU P30-1	Hammermill #1	24-A-045
EP S30-2	EU P30-2	Hammermill #2	24-A-046
EP S30-3	EU P30-3	Hammermill #3	24-A-047
EP S30-4	EU P30-4	Hammermill #4	24-A-048
EP S30-5	EU P30-5	Hammermill #5	24-A-049
EP S30-6	EU P30-6	Conveyor/Surge Bin	24-A-050
EP S10	EU 62	DDGS Dryer A	06-A-1183-S7
	EU 63	DDGS Dryer B	
	EU 64	DDGS Dryer C	
	EU 65	DDGS Dryer D	
	EU B10A	Heat Recovery Boiler A	
	EU B10B	Heat Recovery Boiler B	
	EU 19	Slurry Tank #1	
	EU 20	Slurry Tank #2	
	EU 21	Cook Tube #1	
	EU 22	Cook Tube #2	
	EU 23	Cook Flash Vessel	
	EU 24	Liquefaction Tank #1	
	EU 25	Liquefaction Tank #2	
	EU 33	Molecular Sieve Vaporizer	
	EU 34-EU 39	Molecular Sieve Bottles #1 - #6	
	EU 40	200 Proof Condenser	
	EU 41	200 Proof Flash Vessel	
	EU 42	200 Proof Flash Receiver	
	EU 43	CIP Screen/Tank	
	EU 44	Yeast Tank #1	
	EU 45	Yeast Tank #2	
	EU 46	Beer Column	

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
EP S10, (cont.)	EU 48	Side Stripper	06-A-1183-S7 (cont.)
	EU 49	Rectifier Column	
	EU 50	190 Proof Condenser	
	EU 51	Reflux Tank	
	EU 52	Regen Tank	
	EU 53	Acid Wash Tank	
	EU 54	Centrate Tank #1	
	EU 55	Centrate Tank #2	
	EU 56	Centrifuges	
	EU 57	Evaporators	
	EU 58	Methanator #1	
	EU 59	Methanator #2	
	EU 60	Methanator #3	
	EU 61	Methanator #4	
EP S40	EU 26	Fermenter #1	06-A-1185-S6
	EU 27	Fermenter #2	
	EU 28	Fermenter #3	
	EU 29	Fermenter #4	
	EU 30	Fermenter #5	
	EU 31	Fermenter #6	
	EU 32	Fermenter #7	
	EU 66	Fermenter #8	
	EU 67	Fermenter #9	
	EU 47	Beer Well	
EP S70	EU P70	DDGS Cooler	07-A-295-S3
EP S90	EU P90	DDGS Loadout Truck	06-A-1182-S3
	EU P90(2)	DDGS Loadout Rail	
EP SEP22	EU F50	Product Loadout & Vapor Recovery	06-A-1190-S4
EP 11	EU 58	Biomethanator #1	07-A-296-S2
	EU 59	Biomethanator #2	
	EU 60	Biomethanator #3	
	EU 61	Biomethanator #4	
EP S80	EU P80	Cooling Tower	06-A-1192-S3
EP T61	EU T61	Denatured Ethanol Storage Tank	06-A-1195-S3
EP T62	EU T62	Denatured Ethanol Storage Tank	06-A-1196-S3
EP T63	EU T63	200 Proof Ethanol Storage Tank	07-A-297-S1
EP T65	EU T65	190 Proof Ethanol Storage Tank	06-A-1194-S2
EP T64	EU T64	Denaturant Storage Tank	06-A-1197-S3
EP FP	EU FP	Fire Water Pump	06-A-1191-S3
EP F110	EU F110	Equipment Leaks	06-A-1193-S3
EP F120	EU F120	Truck Traffic on Plant Roads	06-A-1198-S3
EP F130	EU F130	WDGS Storage and Loadout	07-A-298-S1

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
EP S150	EU P150	Whole Stillage Tank	14-A-417
EP S160	EU P160	Thin Stillage Tank	14-A-418
EP S170	EU 170	Auxiliary Boiler	20-A-287
EP F22	EU F22	Open Transportation Devices	14-A-419
EP S33	EU 71	Grain Receiving #2	18-A-074
	EU 72	Grain Elevator #3	
	EU 73	Grain Bin #3	

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
EU TS-8411	Corrosion Inhibitor Tank (2,300 gal)
EU TF-6810	Syrup Storage Tank (180,000 gal)
EU TF-2112	Methanator Feed Tank (374,000 gal)
EU TF-2101	Cook Water Tank (374,000 gal)
EU TP-12501	Sulfuric Acid Tank (8,000 gal)
S200	Diesel Tank (1,000 gal)
S201	Corn Oil Loadout
S202	Corn Oil Vents
S203	Portable Diesel Tank (100 gal)
S204	Ground Corn Pile
S205	Fire Pump Diesel Tank (360 gal)
EU TK-13800	Corn Oil Tank 1 (20,000 gal)
EU TK-13801	Corn Oil Tank 2 (20,000 gal)
EU TK-13802	Corn Oil Tank 3 (20,000 gal)
EU TK-13803	Corn Oil Tank 4 (20,000 gal)

II. Plant-Wide Conditions

Facility Name: Poet Biorefining - Menlo, LLC
Permit Number: 15-TV-006R2

Permit conditions are established in accord with 567 Iowa Administrative Code rule 24.108. When 567 IAC as amended May 15, 2024, and cited in this permit becomes State Implementation Plan (SIP) approved, it will supersede 567 IAC as amended February 8, 2023. Prior to May 15, 2024, all Title V rule citations in this Title V permit were found and cited in 567 IAC Chapter 22. During the period from May 15, 2024, to the date that 567 IAC as amended May 15, 2024, is approved into the SIP, both 567 IAC as amended May 15, 2024 and 567 IAC as amended February 8, 2023 form the legal basis for the applicable requirements included in this permit. A crosswalk showing the citation changes is attached to this permit in Appendix B.

Permit Duration

The term of this permit is:
Commencing on:
Ending on:

Amendments, modifications and reopenings of the permit shall be obtained in accordance with 567 Iowa Administrative Code rules 24.110 - 24.114. Permits may be suspended, terminated, or revoked as specified in 567 Iowa Administrative Code Rules 24.115.

Emission Limits

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

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

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

Particulate Matter:

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

For sources constructed, modified or reconstructed prior to July 21, 1999, the emission of particulate matter from any process shall not exceed the amount determined from the equation provided in 23.3(2)"a"(2) or amount specified in a permit if based on an emission standard of 0.1

grain per standard cubic foot of exhaust gas or established from standards provided in 23.1(455B) and 23.4(455B).

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

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

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

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

40 CFR 60 Subpart Db Requirements

This facility is subject to Standards of Performance for *Industrial Commercial Institutional Steam Generating Units*. The affected units are Thermal Oxidizer 1 and Thermal Oxidizer 2.

See Appendix A for a link to the Standard.

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

40 CFR 60 Subpart DD Requirements

This facility is subject to Standards of Performance for Grain Elevators. The affected units are EU 71, EU 72 and EU 73.

See Appendix A for a link to the Standard.

Authority for Requirement: 40 CFR 60 Subpart DD
567 IAC 23.1(2) "ooo"

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

See Appendix A for a link to the Standard.

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

40 CFR 60 Subpart VVa 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 November 7, 2006. The affected units are equipment in VOC service and any applicable devices and systems (as defined in 40 CFR 60.481a) in the entire facility. The owner or operator shall comply with the applicable requirements in 40 CFR 60.480a through 60.489a, including recordkeeping requirements in 40 CFR 60.486a and reporting requirements in 40 CFR 60.487a.

See Appendix A for a link to the Standard.

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

40 CFR 60 Subpart IIII Requirements

This facility is subject to Standards of Performance for *Stationary Compression Ignition Internal Combustion Engines*. The affected unit is EU FP. Applicable requirements are incorporated in the Emission Point-Specific conditions.

See Appendix A for a link to the Standard.

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

40 CFR 63 Subpart A Requirements

This facility is subject to National Emission Standards for Hazardous Air Pollutants for *General Provisions*. The affected units are EP S10, EP S40, EP SEP22, EP T64, EP F110 and EP FP.

See Appendix A for a link to the Standard.

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

40 CFR 63 Subpart FFFF Requirements

This facility is subject to National Emission Standards for Hazardous Air Pollutants for *Miscellaneous Organic Chemical Manufacturing*. The affected units are EP S10, EP S40, EP SEP22, EP T64 and EP F110.

See Appendix A for a link to the Standard.

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

40 CFR 63 Subpart ZZZZ Requirements

This facility is subject to National Emission Standards for Hazardous Air Pollutants for *Stationary Reciprocating Internal Combustion Engines* (RICE NESHAP). The affected unit is EU FP. Applicable requirements are incorporated in the Emission Point-Specific conditions.

See Appendix A for a link to the Standard.

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

III. Emission Point-Specific Conditions

Facility Name: Poet Biorefining - Menlo, LLC

Permit Number: 15-TV-006R2

Emission Point ID Number: EP S20

Associated Equipment

Table: Grain Receiving and Storage

Emission Unit	Emissions Unit Description	Raw Material	Rated Capacity	Control Equipment
EU P20	Grain Receiving/Handling System	Grain	40,000 bu/hr	Baghouse (C20)
EU P20a	Grain Bin A	Grain	500,000 bu	
EU P20b	Grain Bin B	Grain	500,000 bu	

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-1180-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 (PM)

Emission Limit(s): 1.67 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 06-A-1180-S3
567 IAC 23.4(7)

Operating Requirements with Associated Monitoring and Recordkeeping

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

1. The owner or operator shall maintain the Baghouse (CE C20) according to the facility's (Facility ID: 39-06-002) operation and maintenance plan. The owner or operator shall maintain a log of all maintenance and inspection activities performed on the Baghouse (CE

- C20). This log shall include, but is not necessarily limited to:
- a. The date any inspection and/or maintenance was performed on the Baghouse (CE C20);
 - b. Any issues identified during the inspection and the date each issue was resolved;
 - c. Any issues addressed during the maintenance activities and the date each issue was resolved; and
 - d. Identification of the staff member performing the maintenance or inspection.
2. The grain bins shall be maintained at negative pressure at all times that the bins are in operation.

Authority for Requirement: DNR Construction Permit 06-A-1180-S3

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (ft, from the ground): 162

Stack Opening (inches, dia.): 38

Exhaust Flow Rate (scfm): 27,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 06-A-1180-S3

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☒ No ☐

Authority for Requirement: 567 IAC 24.108(3)

Compliance Assurance Monitoring Plan for Flint Hills Resources Menlo, LLC Facility located in Menlo, Iowa

EP S20 –Grain Receiving, Storage, and Handling System Baghouse

I. Background

A. Emissions Unit

Description: Grain Receiving/Handling, Grain Bin A and B (EU P20, 20a, 20b)

Facility: Flint Hills Resources Menlo, LLC
Menlo, Iowa

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation No.: Construction Permit 06-A-1180-S3

PM Emission Limit or Standard: 1.67 lb/hr; 0.1 gr/dscf

PM₁₀ Emission Limit or Standard: N/A

PM_{2.5} Emission Limit or Standard: N/A

C. Control Technology

Fabric Filter Baghouse (CE C20)

II. Grain Receiving, Storage, and Handling System Baghouse Monitoring Approach

A. Indicator

Visible emission surveys will be used as the performance indicator.

B. Measurement 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

I. Indicator	Visible emissions from the baghouse stack.
Measurement Approach	Visible emission surveys performed each day when operating.
II. Indicator Range	A reading above No Detectable Emissions.
Corrective Action	Procedures, system parameters, data trends will be reviewed and the functional operation of the equipment will be assessed to determine the cause of the excursion. Once

	the cause is identified, a repair will be completed or an adjustment will be implemented to procedures to address the excursion.
QIP Threshold	An accumulation of excursions outside the indicator range of six or more for a reporting period excluding periods of startup, shutdown and malfunction.
III. Performance Criteria	
A. Data Representativeness	Indication of PM emissions through the baghouse.
B. Verification of Operational Status	Records of visible emission surveys will be maintained for five years.
C. QA/QC Practices and Criteria	Calibrate, maintain, and operate instrumentation in accordance with manufacturer's recommendation.
D. Monitoring Frequency	A visible emission survey will be recorded a minimum of once per day during operations.
Data Collection Procedures	The visible emission survey will be collected manually.
Averaging period	Not applicable.
E. Record Keeping	Maintain for a period of five years records and corrective actions taken in response to excursions.
F. Reporting	Number, duration, and cause of any excursion and the corrective action taken.
Frequency	Semiannually.

III. Justification

A. Background

PM, PM₁₀, and PM_{2.5} emissions from the Grain Receiving, Storage, and Handling System (EU P20, 20a, 20b) are controlled by the Grain Receiving, Storage, and Handling Baghouse.

B. Rationale for Selection of Performance Indicator

Baghouses remove dust from a gas stream by passing the stream through a porous fabric. Particles form a porous cake on the fabric that acts as the filtration device. This porous cake is routinely removed and collected and returned to the process. Baghouses are highly efficient for controlling filterable PM and PM₁₀. Baghouses are subject to failure if they are not properly operated and maintained. Visible emissions from the baghouse stack would indicate potential failure of the bags.

C. Rationale for Selection of Indicator Level

Zero visible emissions verify the baghouse is properly capturing and controlling PM emissions.

The selected QIP threshold is six excursions during a semi-annual reporting period. If the QIP threshold is exceeded during a semi-annual reporting period, a QIP will be developed and implemented.

Emission Point ID Number: EP S25

Associated Equipment

Associated Emission Unit ID Numbers: EU P25A and EU P25B

Emissions Control Equipment ID Number: CE C25

Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: EU P25A and EU P25B

Emission Unit Description: 2 Steel Grain Bins

Raw Material/Fuel: Corn

Rated Capacity: 510,000 bushels (each bin)

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 14-A-416
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 (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 14-A-416
567 IAC 23.4(7)

Operating Requirements with Associated Monitoring and Recordkeeping

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

Operating Limits

1. The control equipment shall be inspected and maintained according to manufacturer's recommendations.
2. The grain throughput through the two steel grain bins shall not exceed 378,000 tons of grain per twelve (12) month period, rolled monthly.

Reporting & Record keeping

- A. The owner or operator shall keep records of control equipment inspections and maintenance.
- B. At the end of each month, record the amount of grain (in tons) that was put into the two steel grain bins over the previous month.
- C. At the end of each month, record the amount of grain (in tons) that was put into the two steel grain bins over the previous twelve (12) months.

Authority for Requirement: DNR Construction Permit 14-A-416

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (ft, from the ground): 160

Stack Opening (inches, dia.): 20

Exhaust Flow Rate (scfm): 6,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 14-A-416

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☒ No ☐

Authority for Requirement: 567 IAC 24.108(3)

Compliance Assurance Monitoring Plan for Flint Hills Resources Menlo, LLC Facility located in Menlo, Iowa

EP S25 – Grain Storage Bins Baghouse

I. Background

A. Emissions Unit

Description: Grain Storage Bins (EU P25)

Facility: Flint Hills Resources Menlo, LLC
Menlo, Iowa

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation No.: Construction Permit 14-A-416

PM Emission Limit or Standard: 0.1 gr/dscf

C. Control Technology

Fabric Filter Baghouse (CE C25)

II. DDGS Cooler Baghouse Monitoring Approach

A. Indicator

Visible emission surveys will be used as the performance indicator.

B. Measurement 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

I. Indicator	Visible emissions from the baghouse stack.
Measurement Approach	Visible emission surveys performed each day when operating.
II. Indicator Range	A reading above No Detectable Emissions.
Corrective Action	Procedures, system parameters, data trends will be reviewed and the functional operation of the equipment will be assessed to determine the cause of the excursion. Once the cause is identified, a repair will be completed or an adjustment will be implemented to procedures to address the excursion.

QIP Threshold	An accumulation of excursions outside the indicator range of six or more for a reporting period excluding periods of startup, shutdown and malfunction.
III. Performance Criteria	
A. Data Representativeness	Indication of PM emissions through the baghouse.
B. Verification of Operational Status	Records of visible emission surveys will be maintained for five years.
C. QA/QC Practices and Criteria	Calibrate, maintain, and operate instrumentation in accordance with manufacturer's recommendation.
D. Monitoring Frequency	A visible emission survey will be recorded a minimum of once per day during operations.
Data Collection Procedures	The visible emission survey will be collected manually.
Averaging period	Not applicable.
E. Record Keeping	Maintain for a period of five years records and corrective actions taken in response to excursions.
F. Reporting	Number, duration, and cause of any excursion and the corrective action taken.
Frequency	Semiannually.

III. Justification

A. Background

PM emissions from the Grain Bins (EU P25) are controlled by the Grain Bin Baghouse.

B. Rationale for Selection of Performance Indicator

Baghouses remove dust from a gas stream by passing the stream through a porous fabric. Particles form a porous cake on the fabric that acts as the filtration device. This porous cake is routinely removed and collected and returned to the process. Baghouses are highly efficient for controlling filterable PM and PM₁₀. Baghouses are subject to failure if they are not properly operated and maintained. Visible emissions from the baghouse stack would indicate potential failure of the bags.

C. Rationale for Selection of Indicator Level

Zero visible emissions verify the baghouse is properly capturing and controlling PM emissions.

The selected QIP threshold is six excursions during a semi-annual reporting period. If the QIP threshold is exceeded during a semi-annual reporting period, a QIP will be developed and implemented.

Emission Point ID Number: Hammermills

Associated Equipment

Emission Point	Emission Unit	Description	Raw Material	Rated Capacity	Control Equipment	Construction Permit
EP-S30-1	EU-P30-1	Hammermill #1	Grain	1,200 bushels/hr	CE C30-1: Baghouse	24-A-045
EP-S30-2	EU-P30-2	Hammermill #2	Grain	1,200 bushels/hr	CE C30-2: Baghouse	24-A-046
EP-S30-3	EU-P30-3	Hammermill #3	Grain	1,200 bushels/hr	CE C30-3: Baghouse	24-A-047
EP-S30-4	EU-P30-4	Hammermill #4	Grain	1,200 bushels/hr	CE C30-4: Baghouse	24-A-048
EP-S30-5	EU-P30-5	Hammermill #5	Grain	1,200 bushels/hr	CE C30-5: Baghouse	24-A-049

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permits 24-A-045, 24-A-046, 24-A-047,
24-A-048, 24-A-049

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 (PM)

Emission Limit(s): 0.51 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permits 24-A-045, 24-A-046, 24-A-047,
24-A-048, 24-A-049

567 IAC 23.4(7)

Operating Requirements with Associated Monitoring and Recordkeeping

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

1. The existing hammermill system (EP S30) shall be rendered inoperable and the associated permit (06-A1181-S3) rescinded within 30 calendar days of the start of operation of

hammermills (EU S30-1 through EU S30-5).

2. The owner or operator shall conduct a visible emissions observation on EP S30-1 through EP S30-5 once per calendar week.
 - a. If the owner or operator observes visible emissions from EP S30-1 through EP S30-5, the owner or operator shall investigate the emission units or control equipment and make corrections to the associated operations or equipment.
 - b. The owner or operator shall maintain a record of all corrective actions taken.
 - c. This requirement shall not apply on the days that the emission units are not in operation.
3. The Pulse Jet Baghouses (CE C30-1 through CE C30-5) differential pressure drop shall be maintained between 0.1 to 6 inches water column.
 - a. The owner or operator shall properly operate and maintain equipment to continuously monitor the differential pressure drop across the baghouse. The monitoring devices and any recorders shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals.
 - b. The owner or operator shall collect and record the pressure drop across the baghouse, in inches of water, once per calendar day. If the pressure drop across the baghouse falls outside the range specified in the Operating Requirements section the owner or operator shall investigate the baghouse and make corrections to it. The owner or operator shall maintain a record of all corrective actions taken.
 - c. This requirement shall not apply on the days that the emission unit(s) controlled by the baghouse is not in operation.
4. The owner or operator shall operate and maintain the Pulse Jet Baghouses (CE C30-1 – CE C30-5) according to the manufacturer's specifications and maintenance schedule. The facility shall maintain a log of all maintenance and inspection activities performed on the control equipment. This log shall include, but is not limited to:
 - a. The date and time any inspection and/or maintenance was performed on the control equipment;
 - b. Any issues identified during the inspection and the date each issue was resolved; and,
 - c. Any issues identified during the maintenance activities and the date each issue was resolved

Authority for Requirement: DNR Construction Permits 24-A-045, 24-A-046, 24-A-047,
24-A-048, 24-A-049

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Stack Height (ft, from the ground): 10

Stack Opening (inches): 18 x 16

Exhaust Flow Rate (scfm): 12,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permits 24-A-045, 24-A-046, 24-A-047,
24-A-048, 24-A-049

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☒ No ☐

Operating Requirements with Associated Monitoring and Recordkeeping are CAM equivalent.

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-S30-6

Associated Equipment

Associated Emission Unit ID Numbers: EU P30-6
Emissions Control Equipment ID Number: CE C30-6
Emissions Control Equipment Description: Pulse Jet Baghouse

Emission Unit vented through this Emission Point: EU P30-6
Emission Unit Description: Conveyor/Surge Bin
Raw Material/Fuel: Corn
Rated Capacity: 6,000 bushels/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 24-A-050
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 (PM)

Emission Limit(s): 0.22 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 24-A-050
567 IAC 23.4(7)

Operating Requirements with Associated Monitoring and Recordkeeping

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

1. The owner or operator shall conduct a visible emissions observation on EP S30-6 once per calendar week.
 - a. If the owner or operator observes visible emissions from EP S30-6, the owner or operator shall investigate the emission units or control equipment and make corrections to the associated operations or equipment.
 - b. The owner or operator shall maintain a record of all corrective actions taken.
 - c. This requirement shall not apply on the days that the emission units are not in operation.

2. The Pulse Jet Baghouse (CE C30-6) differential pressure drop shall be maintained between 0.1 to 6 inches water column.
 - a. The owner or operator shall properly operate and maintain equipment to continuously monitor the differential pressure drop across the baghouse. The monitoring devices and any recorders shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals.
 - b. The owner or operator shall collect and record the pressure drop across the baghouse, in inches of water, once per calendar day. If the pressure drop across the baghouse falls outside the range specified in the Operating Requirements section., the owner or operator shall investigate the baghouse and make corrections to it. The owner or operator shall maintain a record of all corrective actions taken.
 - c. This requirement shall not apply on the days that the emission unit(s) controlled by the baghouse is not in operation.
3. The owner or operator shall operate and maintain the Pulse Jet Baghouse (CE C30-6) according to the manufacturer's specifications and maintenance schedule. The facility shall maintain a log of all maintenance and inspection activities performed on the control equipment. This log shall include, but is not limited to:
 - a. The date and time any inspection and/or maintenance was performed on the control equipment;
 - b. Any issues identified during the inspection and the date each issue was resolved; and,
 - c. Any issues identified during the maintenance activities and the date each issue was resolved.

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (ft, from the ground): 10

Stack Opening (inches): 21 x 14

Exhaust Flow Rate (scfm): 5,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permits 24-A-050

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☒ No ☐

*Operating Requirements with Associated Monitoring and Recordkeeping
are CAM equivalent.*

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP S10

Associated Equipment

Table: Dryers, Boilers, Distillation and Biomethanators

Emission Unit	Emission Unit Description	Raw Material/ Fuel	Maximum Capacity (MMBtu/hr)	Control Equipment
EU 62	DDGS Dryer A	DDGS/ Natural Gas/Biogas	54.4 MMBtu/hr	Thermal Oxidizer 1 (CE C10a)
EU 63	DDGS Dryer B	DDGS/Natural Gas	54.4 MMBtu/hr	
EU 64	DDGS Dryer C	DDGS/Natural Gas	54.4 MMBtu/hr	Thermal Oxidizer 2 (CE C10b)
EU 65	DDGS Dryer D	DDGS/Natural Gas	54.4 MMBtu/hr	
EU B10a	Heat Recovery Boiler A	Heat/Natural Gas	147.4 MMBtu/hr	NA
EU B10b	Heat Recovery Boiler B		147.4 MMBtu/hr	
EU19	Slurry Tank #1	Mash	25,000 gallons	DDGS Dryer A, DDGS Dryer B, DDGS Dryer C, or DDGS Dryer D followed by Thermal Oxidizer 1 (CE C10a) or Thermal Oxidizer 2 (CE C10b)
EU20	Slurry Tank #2		29,000 gallons	
EU21	Cook Tube #1		2,623 gal/min	
EU22	Cook Tube #2		2,623 gal/min	
EU23	Cook Flash Vessel		2,821 gal/min	
EU24	Liquefaction Tank #1		128,400 gallons	
EU25	Liquefaction Tank #2		128,400 gallons	
EU33	Molecular Sieve Vaporizer	Ethanol	400 gal/min	
EU34-EU39	Molecular Sieve Bottles #1-#6		400 gal/min	
EU40	200 Proof Condenser		400 gal/min	
EU41	200 Proof Flash Vessel		400 gal/min	
EU42	200 Proof Flash Receiver		400 gal/min	
EU43	CIP Screen/Tank	CIP solution	25,000 gallons	
EU44	Yeast Tank #1	Yeast	20,000 gallons	
EU45	Yeast Tank #2		20,000 gallons	
EU46	Beer Column	Beer	3,773 gal/min	
EU48	Side Stripper	Ethanol	982 gal/min	
EU49	Rectifier Column		828 gal/min	
EU 50	190 Proof Condenser		1,967 gal/min	
EU 51	Reflux Tank		1,240 gallons	
EU 52	Regen Tank		1,240 gallons	
EU 53	Acid Wash Tank	Acid Wash	14,200 gallons	

Emission Unit	Emission Unit Description	Raw Material/ Fuel	Maximum Capacity (MMBtu/hr)	Control Equipment
EU 54	Centrate Tank #1	Centrate	1,690 gallons	
EU 55	Centrate Tank #2		1,690 gallons	
EU 56	Centrifuges	Whole Stillage	3,007 gal/min	
EU 57	Evaporators	Thin Stillage	1,966 gal/min	
EU 58*	Methanator #1	Process Water	30,000 gallons	See note
EU 59*	Methanator #2		30,000 gallons	
EU 60*	Methanator #3		30,000 gallons	
EU 61*	Methanator #4		30,000 gallons	

*These units may be vented to Dryer A and the combustible gases are burned there before the exhaust is emitted through the thermal oxidizers and out this stack. If these units are not vented through Dryer A, they shall be vented to the flare associated with EP 11.

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit: 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-1183-S7
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM₁₀)

Emission Limit: 5.98 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-1183-S7

Pollutant: Particulate Matter (PM)

Emission Limit: 5.98 lb/hr⁽²⁾, 0.1 gr/dscf⁽²⁾, 0.6 lb/MMBtu⁽³⁾

Authority for Requirement: DNR Construction Permit 06-A-1183-S7
567 IAC 23.3(2)"a"⁽²⁾
567 IAC 23.3(2)"b"⁽³⁾

⁽²⁾ Not applicable to EU B10a and B10b.

⁽³⁾ Applicable to EU B10a and B10b only.

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit: 20.71 lb/hr; 500 ppmv

Authority for Requirement: DNR Construction Permit 06-A-1183-S7
567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxide (NO_x)

Emission Limit: 27.5 lb/hr⁽⁴⁾; 0.1 lb/MMBtu⁽⁴⁾

Authority for Requirement: DNR Construction Permit 06-A-1183-S7
40 CFR 60 Subpart Db
567 IAC 23.1(2)"ccc"

⁽⁴⁾ Emission limit is based on a 30-day rolling average basis.

Pollutant: Nitrogen Oxide (NO_x)

Emission Limit: 96.58 tons/year⁽⁵⁾

Authority for Requirement: DNR Construction Permit 06-A-1183-S7

⁽⁵⁾ The annual emission limit only applies to the fossil fuel fired boilers (CE 10a/EU B10a and CE 10b/EU B10b).
Compliance will be demonstrated through recordkeeping outlined in the Operating Requirements section.

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit: 4.6 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-1183-S7

Pollutant: Carbon Monoxide (CO)

Emission Limit: 20.71 lb/hr⁽⁶⁾, 96.58 tons/year⁽⁷⁾

Authority for Requirement: DNR Construction Permit 06-A-1183-S7

⁽⁶⁾ Emission limit is based on a 30-day rolling average basis.

⁽⁷⁾ The annual emission limit only applies to the fossil fuel fired boilers (CE 10a/EU B10a and CE 10b/EU B10b).
Compliance will be demonstrated through recordkeeping outlined in the Operating Requirements section.

Pollutant: Total HAP

Emission Limit: 20 ppmv⁽⁸⁾

Authority for Requirement: DNR Construction Permit 06-A-1183-S7
40 CFR 63 Subpart FFFF
567 IAC 23.1(4)"cf"

⁽⁸⁾ The actual limit from the MON MACT (40 CFR Subpart FFFF) is 98% or more reduction of total organic HAP or no more than 20 ppm_v total organic HAP in the exhaust stream.

Operating Requirements with Associated Monitoring and Recordkeeping

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

1. The control equipment shall be operated and maintained according to the facility's (Facility ID: 39-06-002) operation and maintenance plan. The owner or operator shall maintain a log of all maintenance and inspection activities performed on the control equipment. This log shall include, but is not necessarily limited to:
 - a. The date any inspection and/or maintenance was performed on the control equipment;
 - b. Any issues identified during the inspection and the date each issue was resolved;
 - c. Any issues addressed during the maintenance activities and the date each issue was resolved; and
 - d. Identification of the staff member performing the maintenance or inspection.

2. The thermal oxidizers shall be operated at all times the dryers or distillation equipment is being used. Each thermal oxidizer shall maintain a temperature (daily average) during operation at or above the average temperature of the oxidizer recorded during the most recent performance test which demonstrated compliance with the emission limits. The owner or operator shall keep hourly records of the operating temperature of each thermal oxidizer. The owner or operator shall keep records of the frequency and amount of time the thermal oxidizer malfunctions, and estimate the emissions emitted during said malfunctions.
3. The dryers or thermal oxidizers shall combust only natural gas and/or process offgases. The owner or operator shall record and maintain records of the amounts of each fuel combusted during each day, and calculate the annual capacity factor on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month for the previous month, as required in 40 CFR §60.49b(d) for the thermal oxidizer/waste heat boiler. The annual capacity factor is defined as the ratio between the actual heat input to a steam generating unit during a calendar year, and the potential heat input had it been operated for 8,760 hours during a calendar year at the maximum steady state design heat input capacity.
4. The owner or operator shall follow all applicable requirements from Subpart Db, 40 CFR §60.40b through §60.49b. The owner or operator shall maintain records of the following information for each steam generating unit operating day, as required in 40 CFR §60.49b(g). This information shall also be submitted in a report, as required in 40 CFR §60.49b(i). This information shall include the following:
 - a. Calendar date;
 - b. Average hourly nitrogen oxides emission (as NO₂) rates measured;
 - c. 30-day average nitrogen oxides emission rates calculated at the end of each steam generating unit operating day from the measured hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days;
 - d. Identification of the steam generating unit operating days when the calculated 30-day average nitrogen oxides emission rates are in excess of the emission standard, with the reason for such excess emissions as well as a description of corrective actions taken;
 - e. Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken;
 - f. Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data;
 - g. Identification of "F" factor used for calculations, method of determination, and type of fuel combusted;
 - h. Identification of the times when the pollutant concentrations exceeded the full span of the continuous monitoring system;
 - i. Description of any modifications to the continuous monitoring system that could affect the ability of the CEMS to comply with Performance Specification 2 or 3; and
 - j. Results of daily CEMS drift tests and quarterly accuracy assessments as required under 40 CFR Appendix F, Procedure 1.
5. As required by 40 CFR §63.2450(e)(1), the owner or operator of this equipment shall

comply with the requirements of 40 CFR §63.982(c). This also requires the owner or operator to comply with the requirements of 40 CFR §63.988 and any other applicable referenced requirement.

6. The permittee shall use the NO_x CEM data from EP S10, the natural gas fuel usage records, and the equation below to calculate and record the monthly combined NO_x emissions from the TO/HRSGs and boiler EU 170. The permittee shall maintain records of all data used to perform the calculations:

$$a. \quad NO_x \left(\frac{\text{ton}}{\text{month}} \right) = [S10_{NO_x}] \times \left[\frac{1.2 \times NG_{TO/HRSG}}{(1.2 \times NG_{TO/HRSG}) + (NG_{Dryers})} \right] + [EF_{S170} \times [NG_{S170}]/2000]$$

Where: NO_x (ton/month) = NO_x from TO/HRSGs and EU 170

S10_{NO_x} = total NO_x emissions from stack EP S10 as measured by the CEM, in tons

NG_{TO/HRSG} = amount of natural gas combusted in the TO/HRSGs in MMBtu

NG_{Dryers} = amount of natural gas combusted in the Dryers in MMBtu

1.2 = compliance margin for TO/HRSGs

EF_{S170} = NO_x emission factor from the boiler EU 170 in lb/mmBTU. This emission factor shall be determined as follows:

- i. For the period between the start of operation of this unit and the acceptance of the initial stack test, the emission factor shall be 0.1 lb/mmBTU;
- ii. After the initial stack test, the emission factor shall be calculated as follows:

$$EF_{S170} = (\text{average of the three test runs}) + 1.7 \times (\text{standard deviation of the three test runs})$$

NG_{S170} = amount of natural gas combusted in EU 170 in MMBtu

7. The permittee shall use the equation in condition 6 (above) to determine the 12-month rolling total emissions of NO_x from the TO/HRSGs and boiler EU 170 for each calendar month. New combined 12-month rolling total shall be calculated at the end of each month, for the previous month. The permittee may also assume all NO_x emissions from stack EP S10 are from the TO/HRSGs.
8. At the end of each month, record the amount of CO emitted from EP S170 and EP S10, in tons. The combined 12-month rolling total shall be updated and recorded for CO emissions from EP S170 and EP S10 for each calendar month.
9. The owner or operator shall monitor the natural gas input to the dryers and the TO/HRSGs separately. The owner or operator shall record the amount of natural gas input to the dryers and the TO/HRSGs in MMBtu/month.

Authority for Requirement: DNR Construction Permit 06-A-1183-S7
 40 CFR 63 Subpart FFFF
 567 IAC 23.1(4)"cf"
 40 CFR 60 Subpart Db
 567 IAC 23.1(2)"ccc"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (ft, from the ground): 125

Stack Opening (inches, dia.): 120

Exhaust Flow Rate (scfm): 153,400

Exhaust Temperature (°F): 300

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 06-A-1183-S7

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

Monitoring Requirements

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

Compliance Demonstration Table

Pollutant	Compliance Methodology	Frequency	Test Run Time	Test Method
VOC	Stack Test	See Footnote 1	1 hour	40 CFR 63, Appendix A, Method 320 or 40 CFR 60, Appendix A, Method 18
HAP	Stack Test	See Footnote 1	1 hour	40 CFR 63, Appendix A, Method 320 or 40 CFR 60, Appendix A, Method 18

⁽¹⁾ Testing for VOC and Total Organic HAP shall both be conducted each time testing is required to be completed. Testing shall be completed according to the schedule required by NESHAP Subpart FFFF (40 CFR 63 §63.2430 - §63.2550) or at a minimum of once every 3 years.

Authority for Requirement: DNR Construction Permit 06-A-1183-S7
Subpart FFFF

40 CFR 63

567 IAC 23.1(4)"cf"

Agency Approved Operation & Maintenance Plan Required?

Yes ☒ No ☐

Required for multicyclones following DDGS dryers.

Facility Maintained Operation & Maintenance Plan Required?

Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required?

Yes ☒ No ☐

Required for Thermal Oxidizers. Operating Requirements with Associated Monitoring and Recordkeeping are CAM equivalent.

Authority for Requirement: 567 IAC 24.108(3)

Multi Cyclone Agency Operation & Maintenance Plan

This Operations and Maintenance (O&M) Plan pertains to the multicyclones which are part of the process equipment and service Emission Point EP S10.

Monitoring Guidelines

Poet Biorefining -Menlo, LLC makes commitment to take corrective action during period of excursion where the indicators are out of range. A corrective action may include an investigation of the reason for the excursion, evaluation of the situation and necessary follow up action to return operation within the indicator range. An excursion is determined by the averaged discrete data point over a period of time, or the presence of a monitored abnormal condition. An excursion does not necessarily indicate a violation of an applicable requirement. If the corrective action measures fail to return the indicators to the appropriate range, the facility will report the excursion to the department and continue to eliminate the root cause.

Monitoring Methods & Corrective Actions

General

- Periodic Monitoring is not required during periods of time greater than one day in which the source does not operate.
- Poet Biorefining -Menlo, LLC, will maintain a written record of the observation, deficiencies and any action resulting from the inspections.

Continuous

- Operational personnel will maintain dryer/cyclone systems at optimal operating pressures. Pressure indicators in the dryer drums will be maintained at negative pressure for optimal flow. Corrective action will be taken in the event of the system pressure swings positive (during start-up, shutdown and upset conditions) to return to negative pressures.
- Multiclones have high level switches present, monitored within the DCS to ensure appropriate operation. Operators will systematically shutdown the dryer feed and the dryers in a safe manner when system alarm is activated. Corrective action includes immediate troubleshooting to verify the validity of the high level alarm prior to shutdown of dryers.
- If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours.

Daily

- Operations personnel will conduct visual inspections of sight glasses on the Thermal Oxidizers which can provide indications of unusual carry over of particulate from the multiclones. If unusual or excessive carry over particulate is observed action will be taken as soon as possible, but no later than 8 hour after the occurrence
- Flint Hills Resources Menlo, LLC will maintain a written record of the observations, deficiencies and any action resulting from the inspection.
- If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours.

Semi-Annual

- Inspect the structural components including the cyclone ductwork and hoods for leaks or component failure.
- Poet Biorefining -Menlo, LLC will maintain a written record of the observations, deficiencies and any action resulting from the inspection.
- If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours.

Annual

- Inspect the hopper unloading components.
- Check for leaks in the system to ensure the airflow from the dirty side doesn't infiltrate the clean side. Verify that the inlet and outlet ductwork is in good operating condition.
- Check the barrel and collecting tube for deposits and/or excess wear and clean/repair as needed. Dents in the barrel or collecting tube must be removed to ensure proper operation.
- Inspect the cyclone inlet vanes (ramps or spinners) and if necessary clean to ensure they operate according to manufacture specification.
- Poet Biorefining -Menlo, LLC will maintain a written record of the observations, deficiencies and any action resulting from the inspection.
- If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented before the system is returned to service.

Record Keeping and Reporting

- Poet Biorefining -Menlo, LLC will maintain a written or electronic record of all inspections and any action resulting from the inspections.
- Poet Biorefining -Menlo, LLC will keep maintenance and inspection records for five (5) years and will be available upon request.

Quality Control

- All instruments and control equipment will be calibrated, maintained, and operated according to the manufacture specifications.

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP S40

Associated Equipment

Table: Fermentation

Emission Unit	Emission Unit Description	Raw Material/Fuel	Rated Capacity	Control Equipment
EU 26	Fermenter #1	Corn	807,000 gallons (each)	Packed Bed Scrubber (CE C40)
EU 27	Fermenter #2			
EU 28	Fermenter #3			
EU 29	Fermenter #4			
EU 30	Fermenter #5			
EU 31	Fermenter #6			
EU 32	Fermenter #7			
EU 66	Fermenter #8			
EU 67	Fermenter #9			
EU 47	Beerwell	Corn	1.08 MM 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-1185-S6
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.20 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-1185-S6

Pollutant: Particulate Matter (PM)

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

Authority for Requirement: DNR Construction Permit 06-A-1185-S6
567 IAC 23.3(2)"a"

Pollutant: Volatile Organic Compounds (VOC)

Emission Limits: 20.0 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-1185-S6

Pollutant: Total HAP

Emission Limits: 20 ppmv⁽²⁾

Authority for Requirement: DNR Construction Permit 06-A-1185-S6

40 CFR 63 Subpart FFFF

567 IAC 23.1(4)"cf"

⁽²⁾ Emission limit from the MON MACT (40 CFR 63 Subpart FFFF is 98% or more reduction of total organic HAP or no more than 20 ppmv total organic HAP in the exhaust stream).

Operating Requirements with Associated Monitoring and Recordkeeping

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

1. For each month of operation, the facility shall operate the scrubber according to the parameters (water feed rate, process (make-up) water feed rate, and additive feed rate) that it established during the seasonal performance testing required under Monitoring Requirements to demonstrate compliance with the permitted emission limits.

Permitted Monthly Scrubber Operating Parameters as Allowed by Season Tested

Season Tested	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Summer (testing shall be conducted in June, July or August)	X	X	X	X	X	X	X	X	X	X	X	X
Winter (testing allowed in any month from October through April)	X	X	X	X						X	X	X

2. For each day of operation that the plant is operating at a reduced rate, the facility shall operate the scrubber according to the parameters (water feed rate, process (make-up) water feed rate, and the additive feed rate) that it established during the "half-rate" performance testing required under Monitoring Requirements to demonstrate compliance with the permitted emissions limit.
3. The control device (CE C40) associated with this emission point shall be operated at all times process equipment associated with this emission point is in operation.
4. As required by 40 CFR §63.2450(e)(1), the owner or operator of this equipment shall comply with the requirements of 40 CFR §63.982(c). This also requires the owner or operator to comply with the requirements of 40 CFR §63.990(b) and 40 CFR §63.990(c) and any other applicable referenced requirement. The owner or operator shall maintain all records required by the NESHAP Subpart FFFF and all applicable referenced requirements.

5. As required by 40 CFR §63.6(e), the facility shall develop and implement a written startup, shutdown and malfunction plan (SSMP) unless otherwise excluded within the applicable standards.
6. The owner or operator shall install, operate and maintain equipment necessary to continuously monitor the water feed rate (in gallons per minute) into the scrubber. This equipment shall be installed, operated, and maintained in accordance with the facility's Operations & Maintenance (O&M) Plan.
 - a. The daily (calendar day) average water feed rate (in gallons per minute) into the scrubber shall be maintained at or above the average value observed during the most recent applicable seasonal operating or operating rate compliance test which demonstrated compliance with all applicable emission limits.
 - b. The facility shall record the permitted scrubbing water flow rate it is utilizing for each month as determined during the most recent seasonal performance test that is being used to demonstrate compliance.
7. The owner or operator shall install, operate and maintain equipment necessary to continuously monitor the process (make-up) water feed rate (in gallons per minute) into the scrubber. This equipment shall be installed, operated, and maintained in accordance with the facility's Operations & Maintenance (O&M) Plan.
 - a. The daily (calendar day) average process (make-up) water feed rate (in gallons per minute) into the scrubber shall be maintained at or above the average value observed during the most recent applicable seasonal operating or operating rate compliance test which demonstrated compliance with all applicable emission limits.
 - b. The facility shall record the permitted process (make-up) water flow rate it is utilizing for each month as determined during the most recent seasonal performance test that is being used to demonstrate compliance.
8. The owner or operator shall install, operate and maintain equipment necessary to continuously monitor the additive feed rate into the scrubber. This equipment shall be installed, operated, and maintained in accordance with the facility's Operations & Maintenance (O&M) Plan.
 - a. The daily (calendar day) average additive feed rate (in milliliters per minute) into the scrubber shall be maintained at or above the average value observed during the most recent applicable seasonal operating or operating rate compliance test which demonstrated compliance with all applicable emission limits.
9. The owner or operator shall install, operate and maintain equipment necessary to continuously monitor the pressure drop across the scrubber. This equipment shall be installed, operated, and maintained in accordance with the facility's Operations & Maintenance (O&M) Plan.
 - a. The facility shall maintain a daily (calendar day) average differential pressure drop across the wet scrubber that is less than 15 inches water column based on a daily averaging period. The facility shall establish an alarm setting for the purpose of initiating corrective action based on a pressure drop across the wet scrubber greater than 15 inches water column.
 - b. The owner or operator shall collect and record differential pressure drop at minimum of once every 15 minutes and calculate and record the average pressure drop across the scrubber based on a daily (calendar day) average.
 - c. If the daily (calendar day) average pressure drop is greater than 15 inches of water

- column, the facility shall record the time, date and actions taken to correct the situation and also when the parameter is back in the acceptable average pressure drop range.
- d. These requirements shall not apply on days that the scrubber or the equipment the scrubber controls is not in operation.
10. The owner or operator shall install, operate and maintain equipment necessary to continuously monitor the scrubbing process (make-up) water outlet temperature from the heat exchanger (i.e., prior to mixing with well water). This equipment shall be installed, operated, and maintained in accordance with the facility's Operations & Maintenance (O&M) Plan.
 - a. The facility shall maintain a daily (calendar day) average temperature of the scrubbing process water (measured at the outlet of the heat exchanger) that is no greater than 5°F above the average scrubbing process water temperature recorded during a previous applicable seasonal operating or operating rate performance test that demonstrated compliance with all applicable emission limits.
 - b. The owner or operator shall collect and record scrubbing process water temperature at a minimum of once every 15 minutes and calculate and record the daily average scrubbing process water temperature.
 - c. If the daily (calendar day) average scrubbing process water temperature exceeds the average scrubbing process water temperature recorded during a previous applicable seasonal operating or operating rate performance test that demonstrated compliance with all applicable emission limitations by more than 5°F, the facility shall record the time, date and actions taken to correct the situation, and the time and date that parameter was returned below the acceptable maximum scrubbing process water temperature.
 - d. The facility shall establish an alarm setting for the purpose of initiating corrective action based on a scrubbing process water temperature greater 5°F above the average scrubbing process water temperature recorded during a previous applicable seasonal operating or operating rate performance test that demonstrated compliance.
 - e. These requirements shall not apply on days that the scrubber or the equipment the scrubber controls is not in operation.
 11. Maintain a copy of the previous performance tests for each scrubber seasonal operating scenario and "half-rate" operating scenario detailing scrubber pressure drop, water feed rate, process (make-up) water feed rate, and additive feed rate measured during each performance test which demonstrated compliance with emission limits.
 12. The owner or operator shall keep daily records of the plant's daily operating scenario (normal or "half-rate"). "Half-rate" production is defined as any day that the beer feed rate is 50% or less than the normal operating rate as established during seasonal performance testing.
 - a. The owner or operator shall collect and record beer feed rate at a minimum of once every 15 minutes and calculate and record the daily average beer feed rate.
 13. The owner or operator shall inspect and maintain the scrubber (C40) according to the facility's (Plant No. 39-06-002) operation and maintenance plan or manufacturer's specifications.
 - a. The owner or operator shall keep a log of all maintenance and inspection activities performed on the control equipment. This log shall include, but is not limited to:
 - i. The date any inspection and/or maintenance was performed on the control equipment;

- ii. Any issues identified during the inspection;
- iii. Any issues addressed during the maintenance activities; and,
- iv. Identification of the staff member performing the maintenance or inspection.

Note: Continuous monitoring of any parameter shall be consistent with requirements of 40 CFR §63.998(b)

Authority for Requirement: DNR Construction Permit 06-A-1185-S6
40 CFR 63 Subpart FFFF
567 IAC 23.1(4)"cf"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (ft, from the ground): 79

Stack Opening (inches, dia.): 30

Exhaust Flow Rate (scfm): 14,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 06-A-1185-S6

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

Monitoring Requirements

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

Compliance Demonstration Table

Pollutant	Compliance Methodology	Frequency	Test Run Time	Test Method
VOC	Stack Testing	Footnotes (1)(2)(3)(4)	1 hour	40 CFR 60, Appendix A, Method 320
Total HAP ⁽⁵⁾	Stack Testing	Footnotes (1)(2)(3)(4)	1 hour	40 CFR 60, Appendix A, Method 320

⁽¹⁾ Performance testing shall be conducted in June, July or August to demonstrate compliance with the emission limit. Performance testing shall be conducted within October through April to establish winter operating parameters. If the facility chooses to do a "half-rate" scrubber operating scenario, performance testing shall be conducted with production at a 45% to 55% operating rate to establish "half-rate" operating parameters for the scrubber. If the facility opts to comply with only the normal operating rate parameters established in the normal rate testing, the additional "half-rate" test is not required.

⁽²⁾ After the performance test establishing the summer operating parameters, the facility shall annually conduct stack testing for the qualifying seasonal period covering the months of May through September (summer), as described in Operating Requirements. Stack testing shall be conducted during the months of June, July or August for this period. The facility shall use those tests that demonstrate compliance with

the permitted emission limits to establish the scrubber water flow rate, process water flow rate and the additive feed rate for each month of operation, as detailed in Operating Requirements.

⁽³⁾ After the performance test establishing the winter operating parameters, the facility shall conduct stack testing for the qualifying seasonal period covering the months of October through April (winter) once every 36 months, as described in Operating Requirements.

⁽⁴⁾ After the performance test establishing the "half-rate" operating parameters, the facility shall conduct stack testing for the operating rate once every 36 months. If the facility opts to comply with only the operating parameters established during the June, July or August testing, the additional "half-rate" test is not required

⁽⁵⁾ Testing for Total Organic HAP shall be completed according to NESHAP Subpart FFFF (40 CFR 63 §63.2430 - §63.2550).

Authority for Requirement: DNR Construction Permit 06-A-1185-S6
40 CFR 63 Subpart FFFF
567 IAC 23.1(4)"cf"

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☒ No ☐

Operating Requirements with Associated Monitoring and Recordkeeping are CAM equivalent.

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP S70

Associated Equipment

Associated Emission Unit ID Numbers: EU P70
Emissions Control Equipment ID Number: CE C70
Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: EU P70
Emission Unit Description: DDGS Cooler
Raw Material/Fuel: Beer Feed
Rated Capacity: 1,675 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: Opacity

Emission Limit: 40%⁽¹⁾

Authority for Requirement: DNR Construction Permit 07-A-295-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: 0.67 lb/hr

Authority for Requirement: DNR Construction Permit 07-A-295-S3

Pollutant: Particulate Matter (PM)

Emission Limit: 0.67 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 07-A-295-S3
567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit: 2.62 lb/hr

Authority for Requirement: DNR Construction Permit 07-A-295-S3

Operating Requirements with Associated Monitoring and Recordkeeping

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

- A. The control equipment shall be inspected and maintained according to manufacturer's recommendations.
- B. The owner or operator shall keep records of control equipment inspections and maintenance.

Authority for Requirement: DNR Construction Permit 07-A-295-S3

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (ft, from the ground): 72.67

Stack Opening (inches, dia.): 48

Exhaust Flow Rate (scfm): 7,800 to 15,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 07-A-295-S3

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☒ No ☐

Authority for Requirement: 567 IAC 24.108(3)

**Compliance Assurance Monitoring Plan for Poet Biorefining -Menlo, LLC,
LLC
Facility located in Menlo, Iowa
EP S70 – DDGS Cooler Baghouse**

I. Background

A. Emissions Unit

Description: DDGS Cooler (EU P70)

Facility: **Poet Biorefining -Menlo, LLC**
Menlo, Iowa

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation No.: Construction Permit 07-A-295-S3

PM Emission Limit or Standard: 0.67 lb/hr; 0.1 gr/dscf

C. Control Technology

Fabric Filter Baghouse (CE C70)

II. DDGS Cooler Baghouse Monitoring Approach

A. Indicator

Visible emission surveys will be used as the performance indicator.

B. Measurement 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

I. Indicator	Visible emissions from the baghouse stack.
Measurement Approach	Visible emission surveys performed each day when operating.
II. Indicator Range	A reading above No Detectable Emissions.
Corrective Action	Procedures, system parameters, data trends will be reviewed and the functional operation of the equipment will be assessed to determine the cause of the excursion. Once the cause is identified, a repair will be completed or an

	adjustment will be implemented to procedures to address the excursion.
QIP Threshold	An accumulation of excursions outside the indicator range of six or more for a reporting period excluding periods of startup, shutdown and malfunction.
III. Performance Criteria	
A. Data Representativeness	Indication of PM emissions through the baghouse.
B. Verification of Operational Status	Records of visible emission surveys will be maintained for five years.
C. QA/QC Practices and Criteria	Calibrate, maintain, and operate instrumentation in accordance with manufacturer's recommendation.
D. Monitoring Frequency	A visible emission survey will be recorded a minimum of once per day during operations.
Data Collection Procedures	The visible emission survey will be collected manually.
Averaging period	Not applicable.
E. Record Keeping	Maintain for a period of five years records and corrective actions taken in response to excursions.
F. Reporting	Number, duration, and cause of any excursion and the corrective action taken.
Frequency	Semiannually.

III. Justification

A. Background

PM emissions from the DDGS Cooler (EU S70) are controlled by the DDGS Cooler Baghouse.

B. Rationale for Selection of Performance Indicator

Baghouses remove dust from a gas stream by passing the stream through a porous fabric. Particles form a porous cake on the fabric that acts as the filtration device. This porous cake is routinely removed and collected and returned to the process. Baghouses are highly efficient for controlling filterable PM and PM₁₀. Baghouses are subject to failure if they are not properly operated and maintained. Visible emissions from the baghouse stack would indicate potential failure of the bags.

C. Rationale for Selection of Indicator Level

Zero visible emissions verify the baghouse is properly capturing and controlling PM emissions. The selected QIP threshold is six excursions during a semi-annual reporting period. If the QIP threshold is exceeded during a semi-annual reporting period, a QIP will be developed and implemented.

Emission Point ID Number: EP S90

Associated Equipment

Table: DDGS Loadout

Emission Unit	Emissions Unit Description	Raw Material/Fuel	Rated Capacity	Control Equipment
P90	DDGS Loadout Truck	DDGS	9,000 bu/hr	Baghouse (CE C90)
P90(2)	DDGS Loadout Rail		9,000 bu/hr	

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit: 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permits 06-A-1182-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: 0.39 lb/hr

Authority for Requirement: DNR Construction Permits 06-A-1182-S3

Pollutant: Particulate Matter (PM)

Emission Limit: 0.39 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permits 06-A-1182-S3
567 IAC 23.4(7)

Operating Requirements with Associated Monitoring and Recordkeeping

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

1. The owner or operator shall inspect and maintain the baghouse (CE C90) according to the facility's (Plant No. 39-06-002) operation and maintenance plan or manufacturer's specifications.
 - a. The owner or operator shall keep a log of all maintenance and inspection activities performed on the control equipment. This log shall include, but is not limited to:
 - i. The date any inspection and/or maintenance was performed on the control

- equipment;
 - ii. Any issues identified during the inspection;
 - iii. Any issues addressed during the maintenance activities; and,
 - iv. Identification of the staff member performing the maintenance or inspection.
- Authority for Requirement: DNR Construction Permits 06-A-1182-S3

Emission Point Characteristics

The emission points shall conform to the specifications listed below.

Stack Height (ft, from the ground): 40

Stack Opening (inches, dia.): 22

Exhaust Flow Rate (scfm): 6,500

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permits 06-A-1182-S3

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☒ No ☐

Authority for Requirement: 567 IAC 24.108(3)

Compliance Assurance Monitoring Plan for Flint Hills Resources Menlo, LLC Facility located in Menlo, Iowa

EP S90 – DDGS Loadout Baghouse

I. Background

A. Emissions Unit

Description: DDGS Loadout (EU P90)

Facility: Flint Hills Resources Menlo, LLC
Menlo, Iowa

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation No.: Construction Permit 06-A-1182-S3

PM Emission Limit or Standard: 0.39 lb/hr; 0.1 gr/dscf

C. Control Technology

Fabric Filter Baghouse (CE C90)

II. DDGS Storage and Loadout Baghouse Monitoring Approach

A. Indicator

Visible emission surveys will be used as the performance indicator.

B. Measurement 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

I. Indicator	Visible emissions from the baghouse stack.
Measurement Approach	Visible emission surveys performed each day when operating.
II. Indicator Range	A reading above No Detectable Emissions.
Corrective Action	Procedures, system parameters, data trends will be reviewed and the functional operation of the equipment will be assessed to determine the cause of the excursion. Once the cause is identified, a repair will be completed or an adjustment will be implemented to procedures to address the excursion.

QIP Threshold	An accumulation of excursions outside the indicator range of six or more for a reporting period excluding periods of startup, shutdown and malfunction.
III. Performance Criteria	
A. Data Representativeness	Indication of PM emissions through the baghouse.
B. Verification of Operational Status	Records of visible emission surveys will be maintained for five years.
C. QA/QC Practices and Criteria	Calibrate, maintain, and operate instrumentation in accordance with manufacturer's recommendation.
D. Monitoring Frequency	A visible emission survey will be recorded a minimum of once per day during operations.
Data Collection Procedures	The visible emission survey will be collected manually.
Averaging period	Not applicable.
E. Record Keeping	Maintain for a period of five years records and corrective actions taken in response to excursions.
F. Reporting	Number, duration, and cause of any excursion and the corrective action taken.
Frequency	Semiannually.

III. Justification

A. Background

PM emissions from the DDGS Loadout (EU P90) are controlled by the DDGS Storage and Loadout Baghouse.

B. Rationale for Selection of Performance Indicator

Baghouses remove dust from a gas stream by passing the stream through a porous fabric. Particles form a porous cake on the fabric that acts as the filtration device. This porous cake is routinely removed and collected and returned to the process. Baghouses are highly efficient for controlling filterable PM and PM₁₀. Baghouses are subject to failure if they are not properly operated and maintained. Visible emissions from the baghouse stack would indicate potential failure of the bags.

C. Rationale for Selection of Indicator Level

Zero visible emissions verify the baghouse is properly capturing and controlling PM emissions. The selected QIP threshold is six excursions during a semi-annual reporting period. If the QIP threshold is exceeded during a semi-annual reporting period, a QIP will be developed and implemented.

Emission Point ID Number: EP SEP 22

Associated Equipment

Associated Emission Unit ID Numbers: EU F50

Emissions Control Equipment ID Number: CE F50

Emissions Control Equipment Description: Flare (13.9 MMBtu/hr)

Emission Unit vented through this Emission Point: EU F50

Emission Unit Description: Product Loadout & Vapor Recovery

Raw Material/Fuel: Ethanol/Natural Gas

Rated Capacity: 2,650 gal/min (Total Pump 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: 40%⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-1190-S4
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)

Emission Limit: 0.20 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 06-A-1190-S4
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv

Authority for Requirement: DNR Construction Permit 06-A-1190-S4
567 IAC 23.3(3) "e"

Pollutant: Nitrogen Oxide (NO_x)

Emission Limit: 1.27 tons/yr

Authority for Requirement: DNR Construction Permit 06-A-1190-S4

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit: 3.79 tons/yr

Authority for Requirement: DNR Construction Permit 06-A-1190-S4

Pollutant: Carbon Monoxide (CO)

Emission Limit: 5.96 tons/yr

Authority for Requirement: DNR Construction Permit 06-A-1190-S4

Operating Requirements with Associated Monitoring and Recordkeeping

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

1. The control device (CE F50) associated with this emission point shall be operated at all times product is loaded through the rail or truck loadout.
2. The flare shall be limited to operating for not more than 2,600 hours per twelve-month rolling period. (NOTE: the pilot light is allowed to operate 8,760 hours per year).
 - a. On a monthly basis, the owner or operator shall record the number of hours the flare is operated.
 - b. The owner or operator shall monthly calculate and record the rolling 12-month total number of hours the flare is operated.
3. The total amount of ethanol (denatured and undenatured) transported through the truck loading and rail loading shall not exceed 140,000,000 gallons per twelve-month rolling period.
 - a. On a monthly basis, the owner or operator shall record the total amount of ethanol (denatured and undenatured) loaded through the truck & rail loadout, in gallons.
 - b. The owner or operator shall monthly calculate and record the rolling 12-month total amount of ethanol (denatured and undenatured) loaded through the truck & rail loadout, in gallons.
4. The total amount of switch-loading at the truck loadout shall not exceed 2,640,000 gallons per twelve-month rolling period. Switch-loading is not allowed at the rail loadout.
 - a. On a monthly basis, the owner or operator shall record the amount of product switch-loaded through the truck loadout, in gallons.
 - b. The owner or operator shall monthly calculate and record the rolling 12-month total amount of product switch-loaded through the truck loadout, in gallons.
5. The flare (CE F50) shall meet the following requirements:
 - a. Be designed for and operated with no visible emissions except for periods not to exceed a total of five (5) minutes during any two (2) consecutive hours;
 - b. Be operated with a flame present at all times product is being loaded;
 - c. Be designed to ensure smokeless design; and,
 - d. The presence of a flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame.
6. The control equipment, CE F50, shall be operated and maintained according to the facility's Operations & Maintenance (O&M) Plan.
7. The owner or operator shall comply with the applicable requirements in 40 CFR Part 63, Subpart FFFF – *National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Manufacturing* [§63.2430 - §63.2550].
8. The facility shall maintain a log of all maintenance and inspection activities performed on the control equipment, CE F50. This log shall include, but is not limited to:

- a. The date any inspection and/or maintenance was performed on the emission unit and/or control equipment;
 - b. Any issue(s) identified during the inspection and the date each issue(s) was resolved;
 - c. Any issue(s) addressed during the maintenance activities and the date each issue(s) was resolved; and,
 - d. Identification of the staff member performing the inspection or maintenance activity.
- Authority for Requirement: DNR Construction Permit 06-A-1190-S4
 40 CFR 63 Subpart FFFF
 567 IAC 23.1(4)"cf"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 30
 Stack Opening, (inches, dia.): 60
 Exhaust Flow Rate (scfm): 34,000
 Exhaust Temperature (°F): 2,000
 Discharge Style: Vertical Unobstructed
 Authority for Requirement: DNR Construction Permit 06-A-1190-S4

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

Monitoring Requirements

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP 11

Associated Equipment

Table: Biomethanators

Emission Unit	Emissions Unit Description	Raw Material/Fuel	Rated Capacity	Control Equipment
58	Biomethanator #1	Process water/ Natural Gas	350 gal/min (total capacity)	Flare (CE 11) 6.4 MMBtu/hr
59	Biomethanator #2			
60	Biomethanator #3			
61	Biomethanator #4			

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 07-A-296-S2
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM)

Emission Limit: 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 07-A-296-S2
567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv

Authority for Requirement: DNR Construction Permit 07-A-296-S2
567 IAC 23.3(3) "e"

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 0.42 tons/yr

Authority for Requirement: DNR Construction Permit 07-A-296-S2

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 3.20 tons/yr

Authority for Requirement: DNR Construction Permit 07-A-296-S2

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 1.77 tons/yr

Authority for Requirement: DNR Construction Permit 07-A-296-S2

Operating Requirements with Associated Monitoring and Recordkeeping

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

Operating limits for this emission unit shall be:

1. The flare shall be limited to operating 1,752 hours per twelve-month rolling period.
(NOTE: the pilot light is allowed to operate 8,760 hours per year).
2. The flare (CE 11) shall:
 - a. Be designed for and operated with no visible emissions except for periods not to exceed a total of five (5) minutes during any two (2) consecutive hours;
 - b. Be operated with a flame present at all times biogas is routed to the flare;
 - c. Be designed to ensure smokeless operation;
 - d. The presence of a flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame.
3. The control equipment shall be inspected and maintained according to manufacturer's recommendations

Reporting and Recordkeeping shall be:

1. At the end of each month, record the number of hours the flare operated over the previous month.
2. At the end of each month, record the number of hours the flare operated over the previous twelve (12) months.
3. The owner or operator shall monitor the presence of a flare pilot flame using a thermocouple or any other equivalent device to detect the presence of a flame.
4. The owner or operator shall keep records of control equipment inspections and repairs.

Authority for Requirement: DNR Construction Permit 07-A-296-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 34

Stack Opening, (inches, dia.): 24

Exhaust Flow Rate (scfm): 1,500

Exhaust Temperature (°F): 1,800

Discharge Style: Vertical unobstructed

Authority for Requirement: DNR Construction Permit 07-A-296-S2

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

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☒ No ☐

Operating Requirements with Associated Monitoring and Recordkeeping are CAM equivalent.

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP S80

Associated Equipment

Associated Emission Unit ID Numbers: EU P80

Emissions Control Equipment ID Number: None

Emissions Control Equipment Description: Drift Eliminators (0.005% drift loss)

Emission Unit vented through this Emission Point: EU P80

Emission Unit Description: Cooling Tower (4 cells)

Raw Material/Fuel: Water

Rated Capacity: 3,480,000 gallons per hour total

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit: 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-1192-S3
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM₁₀)

Emission Limit: 3.63 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-1192-S3

Pollutant: Particulate Matter (PM)

Emission Limit: 3.63 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 06-A-1192-S3
567 IAC 23.3(2) "a"

Operating Requirements with Associated Monitoring and Recordkeeping

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

Operating Limits

1. The circulating water in the cooling tower shall not exceed 2500 parts per million (ppm) total dissolved solids (TDS). Monitoring of the TDS shall be conducted on a monthly schedule.

2. The cooling tower and drift eliminator shall be operated and maintained per the manufacturer's specifications and instructions.
3. The owner/operator shall use no water treatment chemicals that contain chromium compounds.

Reporting & Record keeping

1. Maintain records on-site of the TDS concentration in the cooling tower circulating water. Records shall also be kept of the dates of measurement and the methods used to determine the concentration of the TDS in the cooling water.
2. Maintain records of all maintenance and repair to the cooling tower and drift eliminator.
3. Maintain MSDS for all water treatment chemicals used at the facility.

Authority for Requirement: DNR Construction Permit 06-A-1192-S3

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (ft, from the ground): 39.83

Stack Opening (inches, dia.): 360

Exhaust Flow Rate (scfm): 4,088,000

Exhaust Temperature (°F): 84

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 06-A-1192-S3

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP T61, EP T62, EP T63, EP T65

Associated Equipment

Table: Storage Tanks

Emission Point	Emission Unit	Emission Unit Description	Raw Material/Fuel	Rated Capacity (gallons)	Control Equipment	DNR Construction Permit
EP T61	EU T61	Ethanol Storage Tank	Ethanol	1,500,000	Internal Floating Roof (CE T61)	06-A-1195-S3
EP T62	EU T62	Ethanol Storage Tank	Ethanol	1,500,000	Internal Floating Roof (CE T62)	06-A-1196-S3
EP T63	EU T63	200 Proof Ethanol Storage Tank	Ethanol	200,000	Internal Floating Roof (CE T63)	07-A-297-S1
EP T65	EU T65	190 Proof Ethanol Storage Tank	Ethanol	200,000	Internal Floating Roof (CE T65)	06-A-1194-S2

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit: 40% ⁽¹⁾

Authority for Requirement: See Table: Storage Tanks
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).

NSPS Applicability

EU ID	Subpart	Title	Type	State Reference (567 IAC)	Federal Reference (40 CFR)
EU T61, T62, T63, T65	A	General Provisions	NA	23.1(2)	§60.1 – §60.19
	Kb	NSPS for Volatile Organic Liquid Storage Vessels for which Construction, Reconstruction, or Modification commenced after July 23, 1984	Capacity > 19,800 gallons	23.1(2)"ddd"	§60.110b - §60.117b

Operating Requirements with Associated Monitoring and Recordkeeping

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

Operating Limits

1. The owner or operator shall follow the applicable standards of Subpart Kb, 40 CFR 60.112b(a)(1), and inspect as required in 40 CFR 60.113b(a).

Reporting & Record keeping

1. 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.
2. The owner or operator shall follow the applicable recordkeeping and reporting standards of Subpart Kb, 40 CFR 60.115b through 60.116b.

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

Emission Point Characteristics

These emission points shall conform to the specifications listed below.

Exhaust Flow Rate (scfm): See Note

Exhaust Temperature (°F): Ambient

Authority for Requirement: See Table: Storage Tanks

Note: The air flow from this unit is the result of working and breathing losses. As a result the air flow will vary dependent on ambient and operating conditions.

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required?
Facility Maintained Operation & Maintenance Plan Required?
Compliance Assurance Monitoring (CAM) Plan Required?

Yes ☐ No ☒
Yes ☐ No ☒
Yes ☐ No ☒

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP T64

Associated Equipment

Associated Emission Unit ID Numbers: EU T64

Emissions Control Equipment ID Number: CE T64

Emissions Control Equipment Description: Internal Floating Roof

Emission Unit vented through this Emission Point: EU T64

Emission Unit Description: Denaturant Storage Tank

Raw Material/Fuel: Denaturant

Rated Capacity: 200,000 gallons

Applicable Requirements

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

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

There are no emission limits at this time.

Operating Requirements with Associated Monitoring and Recordkeeping

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

1. 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.
2. 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).
3. The owner or operator shall follow the applicable recordkeeping and reporting standards of Subpart Kb, 40 CFR 60.115b through 60.116b.
4. As required by 40 CFR 63.2535(c), the owner or operator of this equipment shall be in compliance with Subpart FFFF if it is in compliance with the provisions of 40 CFR 60, Subpart Kb, except that the owner must also comply with the monitoring, recordkeeping and reporting requirements of NESHAP Subpart FFFF.
5. As required by 40 CFR 63.6(e), the facility shall develop and implement a written startup, shutdown and malfunction plan (SSMP) unless otherwise excluded in the applicable standards.

Authority for Requirement: DNR Construction Permit 06-A-1197-S3
40 CFR 60 Subpart Kb
567 IAC 23.1(2)"ddd"
40 CFR 63 Subpart FFFF
567 IAC 23.1(4)"cf"

Emission Point Characteristics

These emission points shall conform to the specifications listed below.

Exhaust Flow Rate (scfm): Working and Breathing Losses

Exhaust Temperature (°F): Ambient

Authority for Requirement: DNR Construction Permit 06-A-1197-S3

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP FP

Associated Equipment

Associated Emission Unit ID Numbers: EU FP

Emission Unit vented through this Emission Point: EU FP

Emission Unit Description: Fire Water Pump

Raw Material/Fuel: Diesel

Rated Capacity: 300 bhp

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit: 40%⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-1191-S3
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of 25% 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: 1.0 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-1191-S3

Pollutant: Particulate Matter (PM)

Emission Limit: 1.0 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-1191-S3

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit: 0.93 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-1191-S3

Pollutant: Nitrogen Oxide (NO_x)

Emission Limit: 14.2 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-1191-S3

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit: 1.13 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-1191-S3

Pollutant: Carbon Monoxide (CO)

Emission Limit: 3.06 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-1191-S3

NSPS and NESHAP Applicability

This engine is subject to 40 CFR Part 60 NSPS Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (IAC 23.1(2)"yyy").

The engine is a fire pump engine.

In accordance with §60.4202(d), the engine must comply with the emissions standards for fire pumps from §60.4205 (c) and §60.4202 (d). The emission standards that the engine must be certified by the manufacturer to meet are:

Pollutant	Emission Standard	Basis
Particulate Matter (PM)	0.54 grams/kW-hr	§ 89.112 Table 1
NMHC ¹ + NOx	10.5 grams/kW-hr	§ 89.112 Table 1
Carbon Monoxide (CO)	3.5 grams/kW-hr	§ 89.112 Table 1
Opacity – acceleration mode	20%	§ 89.113 (a)(1)
Opacity – lugging mode	15%	§ 89.113 (a)(2)
Opacity – peaks in acceleration or lugging modes	50%	§ 89.113 (a)(3)

¹ Non-methane hydrocarbon

In accordance with §60.4211(c), the owner or operator must comply with the required NSPS emissions standards by purchasing an engine certified by its manufacturer to meet the applicable emission standards for the same model year and engine power. The engine must be installed and configured to the manufacturer's specifications. Provided these requirements are satisfied, no further demonstration of compliance with the emission standards from §60.4205 (b) and §60.4202 (a)(2) is required. However, if the engine is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, a compliance demonstration is required in accordance with §60.4211(g).

Authority for Requirement: DNR Construction Permit 06-A-1191-S3

40 CFR Part 60 Subpart IIII

567 IAC 23.1(2)"yyy"

This engine is of the source type regulated by the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (40 CFR Part 63, Subpart ZZZZ). The engine is a new reciprocating internal combustion engine located at a major source of HAP, and it is rated less than or equal 500 HP. In accordance with §63.6590 (c)(6), the engine must comply with the

requirements of Subpart ZZZZ by meeting the requirements of NSPS subpart IIII. No further requirements apply to this engine under Subpart ZZZZ.

Authority for Requirement: DNR Construction Permit 06-A-1191-S3
40 CFR Part 63 Subpart ZZZZ
567 IAC 23.1(4)"cz"

Operating Requirements with Associated Monitoring and Recordkeeping

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

Operating Limits

1. This engine is limited to burning diesel fuel oil that meets the requirements of Condition 4 below.
2. This engine is limited to operating a maximum of 100 hours in any rolling 12-month period.
3. This engine is limited to operate as an emergency stationary internal combustion engine as defined in §60.4219 and in accordance with §60.4211. There is no time limit on the use of the engine in emergency situations provided that the annual hourly limit established in Condition B is not exceeded. In accordance with §60.4211, the engine is limited to operate a maximum of 100 hours per year for maintenance checks and readiness testing.
4. In accordance with §60.4207(b), the diesel fuel oil burned in this engine shall meet the following specifications from 40 CFR 1090.305 for nonroad diesel fuel:
 - a. a maximum sulfur content of 15 ppm (0.0015%) by weight; and
 - b. a minimum cetane index of 40 or a maximum aromatic content of 35 percent by volume.
5. In accordance with §60.4209(a), the engine shall be equipped with a non-resettable hour meter.
6. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in §60.4211(g).
7. In accordance with §60.4211(a), this engine shall be operated and maintained in accordance with the manufacturer's emission-related written instructions. The owner or operator may only change emission-related engine settings that are permitted by the manufacturer.

Reporting & Record keeping

1. The owner or operator shall maintain the following monthly records:
 - a. the number of hours that the engine operated for maintenance checks and readiness testing;
 - b. the number of hours that the engine operated for allowed non-emergency operations;
 - c. the total number of hours that the engine operated; and
 - d. the rolling 12-month total amount of the number of hours that the engine operated.
2. The owner or operator shall maintain the following annual records:
 - a. the number of hours that the engine operated for maintenance checks and readiness testing; and
 - b. the number of hours that the engine operated for allowed non-emergency operations.
3. The owner or operator of the engine shall comply with the requirements of condition 4 listed

above by one of the following methods:

- a. have the fuel supplier certify that the fuel delivered meets the definition of non-road diesel fuel as defined in 40 CFR 1090.305;
- b. obtain a fuel analysis from the supplier showing the sulfur content and cetane index or aromatic content of the fuel delivered; or
- c. 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 06-A-1191-S3
40 CFR Part 60 Subpart IIII
567 IAC 23.1(2)"yyy"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (ft, from the ground): 10

Stack Opening (inches, dia.): 5

Exhaust Flow Rate (scfm): 750

Exhaust Temperature (°F): 770

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 06-A-1191-S3

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP F110

Associated Equipment

Associated Emission Unit ID Number: EU F110

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

Emission Unit vented through this Emission Point: EU F110

Emission Unit Description: Fugitive Emissions from Equipment Leaks

Raw Material/Fuel: Equipment Leaks

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: VOC

Emission Limit: 12.28 tons/yr

Authority for Requirement: DNR Construction Permit 06-A-1193-S3

Operating Requirements with Associated Monitoring and Recordkeeping

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

Operating Limits

1. The owner/operator shall comply with all requirements of the New Source Performance Standard (NSPS) 40 CFR 60 Subpart VVa.
2. The owner/operator shall comply with all requirements of the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Miscellaneous Organic Chemical Manufacturing 40 CFR 63 Subpart FFFF and all referenced subparts as applicable.

Reporting & Record keeping

1. From each months leak detection tracking information determine the following for each component type:
 - a. The fraction of sources that were repaired the previous month that were found to be leaking this month.
 - b. The fraction of sources that were successfully repaired after being found to leaking in the previous months monitoring.
 - c. The fraction of sources that were found to not be leaking during the previous months monitoring that were found to be leaking during this month's monitoring.
2. Using the information collected in A. above, determine the control efficiency of the leak detection and repair program as outlined in EPA's document 453/R-95-017 titled Protocol for Equipment Leak Emission Estimates (page 5-54 through 5-57). Control efficiencies listed in

table 5.2 (page 5-9) may be assumed for those components listed. If these control efficiencies are assumed, the information required by 1. above need not be recorded for that component type.

3. Using the information collected above, determine the VOC emissions over the previous month from the facility using the calculation methods outlined in EPA's document 453/R-95-017 titled Protocol for Equipment Leak Emission Estimates (page 2-11).
4. At the end of each month, record the total VOC emissions over the previous month from the facility by adding the emissions totals for each section as determined in 3.
5. At the end of each month, record the total VOC emissions over the previous twelve (12) months as determined in 4 above.
6. The owner/operator shall maintain all records required by the New Source Performance Standard and outlined in 40 CFR 60 Subpart VVa.
7. The owner/operator shall maintain all records required by the National Emission Standard for Hazardous Air Pollutants (NESHAP) 40 CFR 63 Subpart FFFF and all applicable referenced subparts.

Authority for Requirement: DNR Construction Permit 06-A-1193-S3
40 CFR 60 Subpart VVa
567 IAC 23.1(2)"nn"
40 CFR 63 Subpart FFFF
567 IAC 23.1(4)"cf"

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP F120

Associated Equipment

Associated Emission Unit ID Numbers: EU F120

Emissions Control Measure Description: Sweeping/Flushing

Emission Unit vented through this Emission Point: EU F120

Emission Unit Description: Truck Traffic on Plant Roads

Raw Material/Fuel: Dust from Truck Traffic

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-1198-S3

567 IAC 23.3(2)"c"

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

Pollutant: Particulate Matter (PM_{2.5})

Emission Limit: 0.27 tons/yr

Authority for Requirement: DNR Construction Permit 06-A-1198-S3

Pollutant: Particulate Matter (PM₁₀)

Emission Limit: 1.15 tons/yr

Authority for Requirement: DNR Construction Permit 06-A-1198-S3

Pollutant: Particulate Matter (PM)

Emission Limit: 5.83 tons/yr

Authority for Requirement: DNR Construction Permit 06-A-1198-S3

Operating Requirements with Associated Monitoring and Recordkeeping

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

1. All haul roads at the facility shall be paved.
2. Truck traffic on the haul road shall not exceed 10 mph. The speed limit shall be posted on the haul road.
3. Any spills on the road shall be cleaned up immediately.

4. Cleaning of the haul roads shall be done at least three days per week, weather permitting. If sweeping cannot be accomplished because the ambient air temperature (as measured at the facility during daylight operating hours) will be less than 35° F (1.7° C) or road conditions due to weather could create hazardous driving conditions (i.e., completely covered with snow and/or ice), then the sweeping shall be postponed and accomplished as soon after the scheduled date as the conditions preventing the sweeping have abated.
 - a. Sweeping need not occur when a rain gauge located at the site indicates that at least 0.2 inches of precipitation has occurred within the preceding 24-hr time period or the paved road(s) will not be used for that day.
 - b. If more than 0.2 inches of rainfall occurs during the 24-hour period preceding scheduled sweeping and sweeping is not performed under 4.a., it may be assumed that the surfaces have been sufficiently cleaned and that day shall be counted as sweeping occurring.
 - c. The owner or operator shall record the frequency of sweeping performed on the haul roads. If the roads are not swept due to weather, a written record must be kept on-site outlining the conditions.
 - d. The owner or operator shall record the type of cleaning (i.e. sweeping, washing, rainfall event, etc.) performed on the haul road.
 - e. Sweeping need not occur if the plant does not receive any truck traffic that day (i.e., during a shutdown, on a weekend, etc.).
 - f. No more than two days with truck traffic shall occur between sweeping, except as specified in Condition 4.a through 4.e.
5. The haul road surface silt loading shall not exceed 0.4 g/m².
6. Performance testing on the haul road surface silt loading shall be completed on an annual basis. For each performance test, silt loading sampling shall be done for at least 3 different locations. The three sampled locations shall then be averaged to determine the silt loading average results. Performance testing shall be completed prior to sweeping. Should any annual test exceed 90% of 0.4 g/m² (0.36 g/m²), the facility shall complete silt load testing on a quarterly basis beginning the next quarter after the test that exceeded 0.36 g/m². Quarterly testing shall continue until 8 consecutive tests are less than 0.36 g/m², after which annual testing shall resume.
7. The plant shall maintain a log for the haul roads that show the following:
 - a. The silt content of the road for that month based on annual testing;
 - b. The date of performance testing;
 - c. The vehicle miles traveled (VMT) for that month;
 - d. Each day record whether or not sweeping was accomplished; and,
 - e. The operator's initials.

Authority for Requirement: DNR Construction Permit 06-A-1198-S3

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP F130

Associated Equipment

Associated Emission Unit ID Numbers: EU F130

Emission Unit vented through this Emission Point: EU F130
Emission Unit Description: WDGS Storage and Loadout (Wet Cake)
Raw Material/Fuel: WDGS
Rated Capacity: 258,238 tons/yr

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 07-A-298-S1
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).

Operating Requirements with Associated Monitoring and Recordkeeping

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

Operating Limits

1. Total wet cake production (WDGS) shall not exceed 258,238 tons per twelve-month rolling period.

Reporting and Recordkeeping

1. At the end of each month, record the amount of WDGS produced over the previous month.
2. At the end of each month, record the amount of WDGS produced over the previous twelve (12) months.

Authority for Requirement: DNR Construction Permit 07-A-298-S1

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required?
Facility Maintained Operation & Maintenance Plan Required?
Compliance Assurance Monitoring (CAM) Plan Required?
Authority for Requirement: 567 IAC 24.108(3)

Yes ☐ No ☒
Yes ☐ No ☒
Yes ☐ No ☒

Emission Point ID Number: EP S150

Associated Equipment

Associated Emission Unit ID Number: EU S150

Emission Unit vented through this Emission Point: EU S150

Emission Unit Description: Whole Stillage Tank

Raw Material/Fuel: Whole Stillage

Rated Capacity: 180,000 gallons

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit: 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 14-A-417

567 IAC 23.3(2)"d"

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

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit: 2.68 lb/hr

Authority for Requirement: DNR Construction Permit 14-A-417

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (ft, from the ground): 56

Stack Opening (inches, dia.): 12

Exhaust Flow Rate (scfm): See Note

Exhaust Temperature (°F): 175

Discharge Style: Downward

Authority for Requirement: DNR Construction Permit 14-A-417

Note: Exhaust flow from this unit is the result of the standing and working losses from the tank.

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

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP S160

Associated Equipment

Associated Emission Unit ID Number: EU S160

Emission Unit vented through this Emission Point: EU S160

Emission Unit Description: Thin Stillage Tank

Raw Material/Fuel: Thin Stillage

Rated Capacity: 374,000 gallons

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit: 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 14-A-418

567 IAC 23.3(2)"d"

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

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit: 4.22 lb/hr

Authority for Requirement: DNR Construction Permit 14-A-418

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (ft, from the ground): 57.67

Stack Opening (inches, dia.): 12

Exhaust Flow Rate (scfm): See Note

Exhaust Temperature (°F): 140

Discharge Style: Downward

Authority for Requirement: DNR Construction Permit 14-A-418

Note: Exhaust flow from this unit is the result of the standing and working losses from the tank.

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

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP F22

Associated Equipment

Associated Emission Unit ID Numbers: EU F22

Emission Unit vented through this Emission Point: EU F22
Emission Unit Description: Open Transportation Devices
Raw Material/Fuel: Ethanol Loading Fugitives
Rated Capacity: NA

Applicable Requirements

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

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

Pollutant: Opacity

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

Authority for Requirement: DNR Construction Permit 14-A-419
567 IAC 23.3(2)"c"

⁽¹⁾ The permit holder shall take all reasonable precautions to prevent visible emissions from crossing the property line of this facility.

Operating Requirements with Associated Monitoring and Recordkeeping

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

Operating Limits

1. The owner/operator shall develop and follow a best management practice to minimize emission from open transportation vessels. This best management practice shall at a minimum outline the action steps necessary to minimize the amount of time a vessel is open without being connected to a vapor collection system or a system that would draw air into the vessel.
2. No product shall be loaded into a vessel prior to the connection of the vapor collection system to the vessel.

Reporting & Record keeping

1. Maintain a copy of the best management practice available for review.

Authority for Requirement: DNR Construction Permit 14-A-419

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Emissions from this unit are fugitive emissions from open transportation devices (IE Railcars or tanker trucks). These emissions occur when the railcar or truck tank is opened for loading or unloading of product or material to or from the tank. This permit only accounts for the time between opening the tank and connection of the vapor collection system to the tank for loading operations.

Authority for Requirement: DNR Construction Permit 14-A-419

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 24.108(3)

Emission Point ID Number: EP S33

Associated Equipment

Table: Grain Receiving and Storage

Emission Unit	Emissions Unit Description	Raw Material/Fuel	Rated Capacity	Control Equipment
71	Grain Receiving #2	Grain	30,000 bu/hr	Baghouse (CE C33)
72	Grain Elevator #3		30,000 bu/hr	
73	Grain Bin #3		1,927,775 bu	

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): 0 %⁽¹⁾

Authority for Requirement: DNR Construction Permit 18-A-074

40 CFR 60 Subpart DD

567 IAC 23.1(2)"ooo"

⁽¹⁾ In accordance with 40 CFR §60.302(c)(1), the opacity from uncaptured emissions from the grain receiving pit (EU-71) shall not exceed 5%.

Pollutant: Particulate Matter (PM₁₀)

Emission Limit: 1.01 lb/hr

Authority for Requirement: DNR Construction Permit 18-A-074

Pollutant: Particulate Matter (PM) (State)

Emission Limit: 1.01 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 18-A-074

567 IAC 23.4(7)

Pollutant: Particulate Matter (PM) (Federal)

Emission Limit: 0.01 gr/dscf

Authority for Requirement: DNR Construction Permit 18-A-074

40 CFR 60 Subpart DD

567 IAC 23.1(2)"ooo"

Operating Requirements with Associated Monitoring and Recordkeeping

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

1. The owner or operator shall maintain the Baghouse (CE C33) according to the facility's

(Facility ID: 39-06-002) operation and maintenance plan. The owner or operator shall maintain a log of all maintenance and inspection activities performed on the Baghouse (CE C33). The owner or operator shall perform an inspection of the Baghouse (CE C33) at least once a year. This log shall include, but is not necessarily limited to:

- a. The date any inspection and/or maintenance was performed on the Baghouse (CE C33);
- b. Any issues identified during the inspection and the date each issue was resolved;
- c. Any issues addressed during the maintenance activities and the date each issue was resolved; and
- d. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 18-A-074

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (ft, from the ground): 109

Stack Opening (inches, dia.): 30

Exhaust Flow Rate (scfm): 23,500

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical unobstructed

Authority for Requirement: DNR Construction Permit 18-A-074

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☒ No ☐

Authority for Requirement: 567 IAC 24.108(3)

Compliance Assurance Monitoring Plan for Flint Hills Resources Menlo, LLC Facility located in Menlo, Iowa

EP S33 – Grain Receiving and Storage #3 Baghouse

I. Background

A. Emissions Unit

Description: Grain Receiving #2, Grain Elevator #3, Grain Bin #3 (EU 71-73)

Facility: Flint Hills Resources Menlo, LLC
Menlo, Iowa

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation No.: Construction Permit 18-A-074

PM Emission Limit or Standard: 1.01 lb/hr; 0.01 gr/dscf

C. Control Technology

Fabric Filter Baghouse (CE C33)

II. DDGS Cooler Baghouse Monitoring Approach

A. Indicator

Visible emission surveys will be used as the performance indicator.

B. Measurement 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

I. Indicator	Visible emissions from the baghouse stack.
Measurement Approach	Visible emission surveys performed each day when operating.
II. Indicator Range	A reading above No Detectable Emissions.
Corrective Action	Procedures, system parameters, data trends will be reviewed and the functional operation of the equipment will be assessed to determine the cause of the excursion. Once the cause is identified, a repair will be completed or an

	adjustment will be implemented to procedures to address the excursion.
QIP Threshold	An accumulation of excursions outside the indicator range of six or more for a reporting period excluding periods of startup, shutdown and malfunction.
III. Performance Criteria	
A. Data Representativeness	Indication of PM emissions through the baghouse.
B. Verification of Operational Status	Records of visible emission surveys will be maintained for five years.
C. QA/QC Practices and Criteria	Calibrate, maintain, and operate instrumentation in accordance with manufacturer's recommendation.
D. Monitoring Frequency	A visible emission survey will be recorded a minimum of once per day during operations.
Data Collection Procedures	The visible emission survey will be collected manually.
Averaging period	Not applicable.
E. Record Keeping	Maintain for a period of five years records and corrective actions taken in response to excursions.
F. Reporting	Number, duration, and cause of any excursion and the corrective action taken.
Frequency	Semiannually.

III. Justification

A. Background

PM emissions from the Grain Receiving 2, Grain Elevator 3, and Grain Bin 3 (EU 71-73) are controlled by the Grain Receiving and Storage #3 Baghouse.

B. Rationale for Selection of Performance Indicator

Baghouses remove dust from a gas stream by passing the stream through a porous fabric. Particles form a porous cake on the fabric that acts as the filtration device. This porous cake is routinely removed and collected and returned to the process. Baghouses are highly efficient for controlling filterable PM and PM₁₀. Baghouses are subject to failure if they are not properly operated and maintained. Visible emissions from the baghouse stack would indicate potential failure of the bags.

C. Rationale for Selection of Indicator Level

Zero visible emissions verify the baghouse is properly capturing and controlling PM emissions.

The selected QIP threshold is six excursions during a semi-annual reporting period. If the QIP threshold is exceeded during a semi-annual reporting period, a QIP will be developed and implemented.

Emission Point ID Number: EP S170

Associated Equipment

Associated Emission Unit ID Number: EU 170

Emission Unit vented through this Emission Point: EU 170

Emission Unit Description: Auxiliary Boiler

Raw Material/Fuel: Natural Gas

Rated Capacity: 47.89 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 20-A-287
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): 0.5 lb/hr

Authority for Requirement: DNR Construction Permit 20-A-287

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.5 lb/hr, 0.6 lbs/MMBtu

Authority for Requirement: DNR Construction Permit 20-A-287
567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv

Authority for Requirement: DNR Construction Permit 20-A-287
567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 96.58 tons/yr⁽²⁾

Authority for Requirement: DNR Construction Permit 20-A-287

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 96.58 tons/yr⁽²⁾

Authority for Requirement: DNR Construction Permit 20-A-287

⁽²⁾ The annual emission limit only applies to the fossil fuel fired boilers (CE 10a/EU B10a, CE 10b/EU B10b, and EU 170). Compliance will be demonstrated through recordkeeping outlined in the Operating Requirements section.

Operating Requirements with Associated Monitoring and Recordkeeping

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

1. Auxiliary Boiler (EU 170) is limited to firing on natural gas.
2. Except as provided under paragraphs 2.a and 2.b of this section, the owner or operator of each affected facility shall record and maintain records of the amount of each fuel combusted during each operating day.
 - a. As an alternative to meeting the requirements of paragraph B(1) of this section, the owner or operator of an affected facility that combusts only natural gas, wood, fuels using fuel certification in 40 CFR 60.48c(f) to demonstrate compliance with the SO₂ standard, fuels not subject to an emissions standard (excluding opacity), or a mixture of these fuels may elect to record and maintain records of the amount of each fuel combusted during each calendar month.
 - b. As an alternative to meeting the requirements of paragraph B(1) of this section, the owner or operator of an affected facility or multiple affected facilities located on a contiguous property unit where the only fuels combusted in any steam generating unit (including steam generating units not subject to this subpart) at that property are natural gas, wood, distillate oil meeting the most current requirements in 40 CFR 60.42c to use fuel certification to demonstrate compliance with the SO₂ standard, and/or fuels, excluding coal and residual oil, not subject to an emissions standard (excluding opacity) may elect to record and maintain records of the total amount of each steam generating unit fuel delivered to that property during each calendar month.
3. At the end of each month, record the amount of CO emitted from EP S170 and EP S10, in tons. The emissions for EP S170 shall be determined based on the MMBtu combusted per month and using an emission factor as follows:
 - a. For the period between the start of operation of this unit and the acceptance of the initial stack test, the emission factor shall be 0.084 lb/mmBTU;
 - b. After the initial stack test, the emission factor shall be calculated as follows:
$$EF_{S170} = (\text{average of the three test runs}) + 1.7 \times (\text{standard deviation of the three test runs})$$
4. At the end of each month, record the amount of CO emitted from EP S170 and EP S10, in tons. The combined 12-month rolling total shall be updated and recorded for CO emissions from EP S170 and EP S10 for each calendar month.
5. The permittee shall use the NO_x CEM data from EP S10, the natural gas fuel usage records, and the equation below to calculate and record the monthly combined NO_x emissions from the TO/HRSGs on EP S10 and boiler EU 170. The permittee shall maintain records of all data used to perform the calculations:

$$NO_X \left(\frac{\text{ton}}{\text{month}} \right) = [S10_{NO_X}] \times \left[\frac{1.2 \times NG_{TO/HRSG}}{(1.2 \times NG_{TO/HRSG}) + (NG_{Dryers})} \right] + [EF_{S170} \times [NG_{S170}] / 2000]$$

Where: NO_x (ton/month) = NO_x from TO/HRSGs and EU 170

S10_{NO_x} = total NO_x emissions from stack EP S10 as measured by the CEM, in tons

NG_{TO/HRSG} = amount of natural gas combusted in the TO/HRSGs in MMBtu

NG_{Dryers} = amount of natural gas combusted in the Dryers in MMBtu

1.2 = compliance margin for TO/HRSGs

EF_{S170} = NO_x emission factor from the boiler EU 170 in lb/mmBTU. This emission factor shall be determined as follows:

1) For the period between the start of operation of this unit and the acceptance of the initial stack test, the emission factor shall be 0.1 lb/mmBTU;

2) After the initial stack test, the emission factor shall be calculated as follows:

EF_{S170} = (average of the three test runs) + 1.7 X (standard deviation of the three test runs)

NG_{S170} = amount of natural gas combusted in EU 170 in MMBtu

6. The permittee shall use the equation in condition 5.E to determine the 12-month rolling total emissions of NO_x from the TO/HRSGs on EP S10 and boiler EU 170 for each calendar month. New combined 12-month rolling total shall be calculated at the end of each month, for the previous month. The permittee may also assume all NO_x emissions from stack EP S10 are from the TO/HRSGs.
7. The owner/operator shall inspect the burner during each boiler tune-up. The burner shall be cleaned and any components shall be replaced as necessary.
8. The owner/operator shall inspect the flame pattern in the boiler during each boiler tune-up. The burner shall be adjusted consistent with the manufacturer's specifications to optimize the flame pattern as necessary.
9. The owner/operator shall inspect the system controlling air-to-fuel ratio in the boiler during each boiler tune-up.
10. The owner/operator shall optimize the CO and NO_x emissions from the boiler during each boiler tune-up.
11. The owner/operator shall measure the concentration of CO in the effluent stream in parts per million, by volume, concentration of NO_x in the effluent stream in parts per million, by volume, and the oxygen in volume percent both before and after adjustments are made. Measurements may be made on either a wet or a dry basis as long as the same basis is used before and after adjustments. Measurements may be made using the appropriate portable gas analyzers.
12. The following records shall be kept for each boiler tune-up performed.
 - a. The date the boiler tune-up was performed;
 - b. A description of any corrective acts taken as part of the tune-up;
 - c. The concentration of CO in the effluent stream in parts per million, by volume, concentration of NO_x in the effluent stream in parts per million, by volume, and the oxygen in volume percent measured at high fire or typical operating load before and after the tune-up of the boiler.

Authority for Requirement: DNR Construction Permit 20-A-287
40 CFR 60 Subpart Dc
567 IAC 23.1(2) "III"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (ft, from the ground): 75
Stack Opening (inches, dia.): 30
Exhaust Flow Rate (scfm): 14,726
Exhaust Temperature (°F): 300
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 20-A-287

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

Monitoring Requirements

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

Compliance Demonstration Table

Pollutant	Compliance Methodology	Frequency	Test Run Time	Test Method
NO _x	Stack Test	3 years ⁽¹⁾	1 hour	40 CFR 60, Appendix A, Method 7E
CO	Stack Test	3 years ⁽¹⁾	1 hour	40 CFR 60, Appendix A, Method 10

⁽¹⁾ Testing shall be completed once every 3 years with a minimum of 33 months between tests and a maximum of 39 months between tests. Results of each of the 3 runs shall be reported in lb/mmBTU to be used in the calculation of an emission factor to be used in the record keeping required in the Operating Requirements section.

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 24.108(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 (IAC). When 567 IAC as amended May 15, 2024, and cited in this permit becomes State Implementation Plan (SIP) approved, it will supersede 567 IAC as amended February 8, 2023. Prior to May 15, 2024, all Title V rule citations in this Title V permit were found and cited in 567 IAC Chapter 22. During the period from May 15, 2024, to the date that 567 IAC as amended May 15, 2024, is approved into the SIP, both 567 IAC as amended May 15, 2024, and 567 IAC as amended February 8, 2023 form the legal basis for the applicable requirements included in this permit. A crosswalk showing the citation changes is attached to this permit in Appendix B.

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 24.108(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 24.105(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 24.108(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 24.108(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 24.108(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 24.108(15)"c"*

G2. Permit Expiration

1. Except as provided in rule 567—24.104(455B), permit expiration terminates a source's right to operate unless a timely and complete application for renewal has been submitted in accordance with rule 567—24.105(455B). *567 IAC 24.116(2)*
2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall submit on forms or electronic format specified by the Department. Additional copies to local programs or EPA are not required for application materials submitted through the electronic format specified by the Department. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in 567 IAC 24.105(2). *567 IAC 24.105*

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 24.107(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 24.108(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 24.107(4). The semi-annual monitoring report shall be submitted to the director and the appropriate DNR Field office. 567 IAC 24.108 (5)

G6. Annual Fee

1. The permittee is required under subrule 567 IAC 24.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The emissions inventory shall be submitted annually by March 31 with forms specified by the department documenting actual emissions for the previous calendar year.
4. The fee shall be submitted annually by July 1 with forms specified by the department.
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.
6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 24.115(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 24.108 (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 24.108 (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 21.8(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 24.108(4), 567 IAC 24.108(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 24;
 - b. Compliance test methods specified in 567 Chapter 21; 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 24.108(6)*

G13. Hazardous Release

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

G14. Excess Emissions and Excess Emissions Reporting Requirements

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

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

2. Excess Emissions Reporting

a. Initial Reporting of Excess Emissions. An incident of excess emission (other than an incident of excess emission during a period of startup, shutdown, or cleaning) shall be reported to the appropriate field office of the department within eight hours of, or at the start of the first working day following the onset of the incident. The reporting exemption for an incident of excess emission during startup, shutdown or cleaning does not relieve the owner or operator of a source with continuous monitoring equipment of the obligation of submitting reports required in 567-subrule 21.10(6). An initial report of excess emission is not required for a source with operational continuous monitoring equipment (as specified in 567-subrule 21.10(1)) if the incident of excess emission continues for less than 30 minutes and does not exceed the applicable emission standard by more than 10 percent or the applicable visible emission standard by more than 10 percent opacity. The initial report may be made by electronic mail (E-mail), in person, or by telephone and shall include as a minimum the following:

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

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

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

- v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.
- vi. The steps that were taken to limit the excess emission.
- vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 21.7(1)-567 IAC 21.7(4)*

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 24.108(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 24.
 - b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
 - c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
 - d. The changes are not subject to any requirement under Title IV of the Act (revisions affecting Title IV permitting are addressed in rules 567—24.140(455B) through 567 - 24.144(455B));
 - e. The changes comply with all applicable requirements.
 - f. For each such change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:
 - i. A brief description of the change within the permitted facility,
 - ii. The date on which the change will occur,
 - iii. Any change in emission as a result of that change,
 - iv. The pollutants emitted subject to the emissions trade
 - v. If the emissions trading provisions of the state implementation plan are

invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.

vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and

vii. Any permit term or condition no longer applicable as a result of the change.

567 IAC 24.110(1)

2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC*

24.110(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 24.110(1). *567 IAC 24.110(3)*

4. The permit shield provided in subrule 24.108(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 24.110(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 24.108(11)*

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

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

i. Correct typographical errors

ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;

iii. Require more frequent monitoring or reporting by the permittee; or

iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.

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

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

2. Minor Title V Permit Modification.

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

- i. Do not violate any applicable requirement;
 - ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit;
 - iii. Do not require or change a case by case determination of an emission limitation or other standard, or an increment analysis;
 - iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act;
 - v. Are not modifications under any provision of Title I of the Act; and
 - vi. Are not required to be processed as significant modification under rule 567 - 24.113(455B).
- b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:
- i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;
 - ii. The permittee's suggested draft permit;
 - iii. Certification by a responsible official, pursuant to 567 IAC 24.107(4), that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used; and
 - iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 24.107(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 24.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against the facility.

3. Significant Title V Permit Modification.

Significant Title V modification procedures shall be used for applications requesting Title V permit modifications that do not qualify as minor Title V modifications or as administrative amendments. These include but are not limited to all significant changes in monitoring permit terms, every relaxation of reporting or recordkeeping permit terms, and any change in the method of measuring compliance with existing requirements. Significant Title V modifications shall meet all requirements of 567 IAC Chapter 24, including those for applications, public participation, review by affected states, and review by the administrator, as those requirements that apply to Title V issuance and renewal.

The permittee shall submit an application for a significant permit modification not later than three months after commencing operation of the changed source unless the existing Title V

permit would prohibit such construction or change in operation, in which event the operation of the changed source may not commence until the department revises the permit. *567 IAC 24.111-567 IAC 24.113*

G19. Duty to Obtain Construction Permits

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

G20. Asbestos

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

G21. Open Burning

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

G22. Acid Rain (Title IV) Emissions Allowances

The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated there under. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners and operators of the unit or the designated representative of the owners and operators is prohibited. Exceedences of applicable emission rates are prohibited. "Held" in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. *567 IAC 24.108(7)*

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

1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
 - a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.
 - b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.
 - c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.
 - d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.
2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:
 - a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.
 - b. Equipment used during the maintenance, service, repair, or disposal of appliances must

comply with the standards for recycling and recovery equipment pursuant to § 82.158.

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

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

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

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

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

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

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

G24. Permit Reopenings

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 24.108(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 24.108(17)"a", 567 IAC 24.108(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 24.114*

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 24.114*

5. A notice of intent shall be provided to the Title V source at least 30 days in advance of the date the permit is to be reopened, except that the director may provide a shorter time period in the case of an emergency. *567 IAC 24.114*

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 24.108 (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 24.108 (8)*

G27. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege. *567 IAC 24.108 (9)"d"*

G28. Transferability

This permit is not transferable from one source to another. If title to the facility or any part of it is transferred, an administrative amendment to the permit must be sought consistent with the requirements of *567 IAC 24.111(1)*. *567 IAC 24.111 (1)"d"*

G29. Disclaimer

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

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

The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with applicable requirements of 567 – Chapter 23 or a permit condition. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. If the owner or operator does not provide timely notice to the department, the department shall not consider the test results or performance evaluation results to be a valid demonstration of compliance with applicable rules or permit conditions. Upon written request, the department may allow a notification period of less than 30 days. At the department's request, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. A testing protocol shall be submitted to the department no later than 15 days before the owner or operator conducts the compliance demonstration. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks (42 days) 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
6200 Park Ave
Suite 200
Des Moines, IA 50321
(515) 343-6589

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 21.10(7)"a", 567 IAC 21.10(9)

G31. Prevention of Air Pollution Emergency Episodes

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

567 IAC 26.1(1)

G32. Contacts List

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

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

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

Chief, Air Quality Bureau
Iowa Department of Natural Resources
6200 Park Ave
Suite 200
Des Moines, IA 50321
(515) 313-8325

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

1101 Commercial Court, Suite 10
Manchester, IA 52057
(563) 927-2640

Field Office 2

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

Field Office 3

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

Field Office 4

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

Field Office 5

6200 Park Ave
Suite 200
Des Moines, IA 50321
(515) 725-0268

Field Office 6

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

Polk County Public Works Dept.

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

Linn County Public Health

Air Quality Branch
1020 6th Street SE
Cedar Rapids, IA 52401
(319) 892-6000

V. Appendix A - NSPS and NESHAP Web Links

1. 40 CFR 60 Subpart DD - Standards of Performance for Grain Elevators
<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-DD>
2. 40 CFR 60 Subpart Db - Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units
<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-Db>
3. 40 CFR 60 Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (including Petroleum Liquid Storage Vessels)
<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-Kb>
4. 40 CFR 60 Subpart VVa - Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which Construction, Reconstruction or Modification Commenced after November 7, 2006
<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-VVa>
5. 40 CFR 60 Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-IIII>
6. 40 CFR 63 Subpart FFFF - National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing
<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-FFFF>
7. 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE)
<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-ZZZZ>

Appendix B - Executive Order 10 (EO10) Rules Crosswalk

Iowa Department of Natural Resources

Draft Title V Operating Permit Fact Sheet

This document has been prepared to fulfill the public participation requirements of 40 CFR Part 70 and 567 Iowa Administrative Code (IAC) 24.107(6). 40 CFR Part 70 contains operating permit regulations pursuant to Title V of the Clean Air Act.

The Iowa Department of Natural Resources (DNR) finds that:

1. POET Biorefining - Menlo, LLC, located at 3363 Talon Avenue, Menlo, IA 50164 has applied to renew their Title V Operating Permit. The designated responsible official of this facility is Chris Morey.
2. POET Biorefining - Menlo, LLC is an Industrial Organic Chemicals, NEC. Facility. This facility consists of 87 emission units with potential emissions of:

Pollutant	Abbreviation	Potential Emissions (Tons per Year)
Particulate Matter ($\leq 2.5 \mu\text{m}$)	PM _{2.5}	67.51
Particulate Matter ($\leq 10 \mu\text{m}$)	PM ₁₀	70.17
Particulate Matter	PM	79.37
Sulfur Dioxide	SO ₂	90.94
Nitrogen Oxides	NO _x	98.56
Volatile Organic Compounds	VOC	180.99
Carbon Monoxide	CO	102.37
Lead	Lead	0.00
Hazardous Air Pollutants ⁽¹⁾	HAP	10.70

⁽¹⁾ May include the following: Acetaldehyde, Acrolein, Arsenic Compounds, Benzene Beryllium Compounds, Cadmium Compounds, Chromium Compounds, Cobalt Compounds, 1,4-Dichlorobenzene, Fluoride Compounds, Formaldehyde, Methanol.

3. POET Biorefining - Menlo, LLC submitted a Title V Operating Permit renewal application on December 12, 2024. Based on the information provided in these documents, DNR has made an initial determination that the facility meets all the applicable criteria for the issuance of an operating permit specified in 567 IAC 24.107.
4. DNR has complied with the procedures set forth in 567 IAC 24.107, including those regarding public notice, opportunity for public hearing, and notification of EPA and surrounding state and local air pollution programs.

DNR procedures for reaching a final decision on the draft permit:

1. The public comment period for the draft permit will run from July 30, 2026 through August 29, 2026. During the public comment period, anyone may submit written comments on the permit. Mail signed comments to Taylor Dailey at the DNR address shown below. The beginning date of this public comment period also serves as the beginning of the U.S. Environmental Protection Agency's (EPA) 45-day review period, provided the EPA does not seek a separate review period.
2. Written requests for a public hearing concerning the permit may also be submitted during the comment period. Any hearing request must state the person's interest in the subject matter, and the nature of the issues proposed to be raised at the hearing. DNR will hold a public hearing upon finding, on the basis of requests, a significant degree of relevant public interest in a draft permit. Mail hearing requests to Taylor Dailey at the DNR address shown below.
3. DNR will keep a record of the issues raised during the public participation process, and will prepare written responses to all comments received. The comments and responses will be compiled into a responsiveness summary document. After the close of the public comment period, DNR will make a final decision on the renewal application. The responsiveness summary and the final permit will be available to the public upon request.

Taylor Dailey
Iowa Department of Natural Resources - Air Quality Bureau
6200 Park Ave
Ste #200
Des Moines, Iowa 50321
Phone: (515) 725-9539
E-mail: Taylor.Dailey@dnr.iowa.gov

DNR concludes that:

1. DNR has authority under 455B.133 Code of Iowa to promulgate rules contained in 567 IAC Chapters 21-33, including, but not limited to, rules containing emission limits, providing for compliance schedules, compliance determination methods and issuance of permits.
2. DNR has the authority to issue operating permits for air contaminant sources and to include conditions in such permits under 455B.134 Code of Iowa.
3. The emission limits included in this permit are authorized by 455B.133 Code of Iowa and 567 IAC Chapters 21-33.
4. DNR is required to comply with 567 IAC Chapter 24 in conjunction with issuing a Title V Operating Permit.
5. The issuance of this permit does not preclude the DNR from pursuing enforcement action for any violation.

Title V Permit Renewal 2 Review Notes

Facility Name:	POET Biorefining - Menlo, LLC
City:	Menlo
County:	Guthrie
Facility #:	39-06-002
EIQ #:	92-6956
Permit #:	15-TV-006R2
Reviewer:	Taylor Dailey

Background:

POET Biorefining - Menlo, LLC has applied for a renewal of their Title V Operating Permit for their ethanol production facility located in Menlo. The facility currently consists of eighty-seven (87) significant emission units and fifteen (15) insignificant emission units.

Title V Applicability

Pollutant	Major for Title V?
PM ₁₀	☐
SO ₂	☐
NO _x	☐
VOC	☒
CO	☒
Lead	☐
Individual HAP	☐
Total HAPs	☒

Program Applicability

- PSD: No, this facility is a synthetic minor source.
- Part 61 NESHAP: No
- NSPS: Yes
 - 40 CFR 60 Subpart A – General Provisions
 - 40 CFR 60 Subpart DD - Standards of Performance for Grain Elevators
 - 40 CFR 60 Subpart Db - Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units
 - 40 CFR 60 Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (including Petroleum Liquid Storage Vessels)
 - 40 CFR 60 Subpart VVa – Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which Construction, Reconstruction or Modification Commenced after November 7, 2006
 - 40 CFR 60 Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
- Major Source of HAPs: Yes

- Part 63 NESHAP: Yes
 - 40 CFR 63 Subpart A - National Emission Standards for Hazardous Air Pollutants for Source Category: General Provisions
 - 40 CFR 63 Subpart FFFF - National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing
 - 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE)
- Acid Rain: No.
- Stratospheric Ozone Protection: No.
- Prevention of Accidental Releases: No.

Construction Permits Modified or Added

Emission Point	Description	Construction Permit
S10	Distillation Process	06-A-1183-S7
S30-1	Hammermill #1	24-A-045
S30-2	Hammermill #2	24-A-046
S30-3	Hammermill #3	24-A-047
S30-4	Hammermill #4	24-A-048
S30-5	Hammermill #5	24-A-049
S170	Auxiliary Boiler	20-A-287

CAM Applicability

Emission Point	Description	Pollutants
S10	Distillation Process	PM, PM ₁₀ , PM _{2.5} , VOC, SHAP, THAP
S20	Grain Receiving and Handling	PM, PM ₁₀ , PM _{2.5}
S30-1, S30-2, S30-3, S30-4, S30-5	Hammermills # 1-5	PM, PM ₁₀ , PM _{2.5}
S30-6	Conveyor/Surge Bin	PM
S40	Fermentation Process	VOC, SHAP, THAP
S70	DDGS Cooler	PM
S90	DDGS Loadout	PM
11	Biomethanators	VOC
S25	Steel Grain Bins	PM
S33	Grain Receiving #3	PM

General Comments

Hammermills EP S30 has new units and construction permits in place. Construction permit 06-A-1181-S3 needs to be rescinded.

Hazardous Air Pollutants for Chemical Manufacturing Area Sources. Additionally, this facility is a major source of HAP and **not** subject to regulation by NESHAP Subpart VVVVVV.

Emission Point Specific

S10

The heat recovery boilers are not subject to NESHAP Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for *Industrial, Commercial, And Institutional Boilers and Process Heaters* since waste heat (or heat recovery) boilers are specifically excluded from the definition of boiler in the subpart.

S20

This equipment is of the source type regulated by the New Source Performance Standard (NSPS) for Grain Elevators (40 CFR 60 Subpart DD; 567 IAC 23.1(2)"ooo"). To be subject to this standard, this facility would have to have a permanent storage capacity of greater than 2.5 million bushels of grain. At the time of the issuance of this permit, the information available to the Department shows that the permanent storage capacity of this facility is 2.02 million bushels. Therefore, this equipment is not subject to this standard at this time.

S25

This equipment is of the source type regulated by the New Source Performance Standard (NSPS) for Grain Elevators (40 CFR 60 Subpart DD; 567 IAC 23.1(2)"ooo"). To be subject to this standard, this facility would have to have a permanent storage capacity of greater than 2.5 million bushels of grain. At the time of the issuance of this permit, the information available to the Department shows that the permanent storage capacity of this facility is 2.02 million bushels. Therefore, this equipment is not subject to this standard at this time.

S70

This facility is subject to 40 CFR Part 63, Subpart FFFF – *National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Manufacturing* [567 IAC 23.1(4)"cf"]. However, the DDGS Cooler (EU-P70) is not an affected emission unit under Subpart FFFF, because it does not produce material or family of material as described in 40 CFR §63.2435(b)(1).

S80

This unit is of the source type regulated by the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Industrial Process Cooling Towers (40 CFR 63 Subpart Q; 567 IAC 23.1(4)"q"). To be subject to this standard the cooling tower must use chromium-base water treatment chemicals. However, if the cooling tower is subject to the standard, the standard prohibits the use of chromium-based water treatment chemicals.

S33

The addition of grain bin #3 increases the total permanent grain storage at the facility above the 40 CFR 60 Subpart DD Standards of Performance for Grain Elevators (NSPS DD) threshold of 2.5 million bushels of grain; therefore, the newly constructed equipment is subject to Subpart DD as a result of this project (PN 18-020).

Periodic Monitoring Guidance

EP S10 - Periodic Monitoring requires a stack test for VOC, HAPs, PM and PM₁₀.

CP 06-A-1183-S6 has stack testing for VOC and HAP. Agency O & M required for multicyclones as it is a major uncontrolled source for PM and PM₁₀. EP also requires a CAM plan (VOC, SHAP and THAP); Construction Permit contains operating and recordkeeping requirements that are equivalent.

EP S20 – Periodic Monitoring requires Facility O & M plan and stack testing for PM and PM₁₀.

EP also requires a CAM plan for PM and PM₁₀. Daily visible emission checks will be performed. Facility O & M and stack test are waived at this time.

EP S25 - Periodic Monitoring requires Facility O & M plan for PM, PM₁₀ and stack testing for PM.

EP also requires a CAM plan for PM. Daily visible emission checks will be performed. Facility O & M and stack test are waived at this time.

EP S30 - Periodic Monitoring requires Facility O & M plan and stack testing for PM and PM₁₀. EP

also requires a CAM plan for PM. Daily pressure drop monitoring will be conducted. Facility O & M and stack test are waived at this time.

EP S40 – Periodic Monitoring requires Agency O & M plan and stack test for VOC; Facility O &

M plan and stack test for THAP. EP also requires a CAM plan for VOC, SHAP and THAP;

Construction Permit contains operating and recordkeeping requirements that are equivalent.

Amount of additive, flow rate and pressure drop will be continuously recorded. Agency, Facility O & M and stack test are waived at this time.

EP S70 – Periodic Monitoring requires Facility O & M plan for PM and PM₁₀; stack testing for

PM. EP also requires a CAM plan for PM. Daily visible emission checks will be performed.

Facility O & M and stack test are waived at this time.

EP S90 – Periodic Monitoring requires Facility O & M plan for PM and PM₁₀; stack testing for

PM. EP also requires a CAM plan for PM. Daily visible emission checks will be performed.

Facility O & M and stack test are waived at this time.

EP 11 - Periodic Monitoring requires Facility O & M plan and stack test for VOC. EP also requires

a CAM plan for VOC; Construction Permit contains operating and recordkeeping requirements that

are equivalent. Presence of flame will be monitored. As the control equipment is a flare, stack

testing is waived. Facility O & M plan is also waived.

EP S33 - Periodic Monitoring requires Facility O & M plan for PM and PM₁₀; stack testing for PM. EP also requires a CAM plan for PM. Daily visible emission checks will be performed. Facility O & M and stack test are waived at this time.

Previous Chapter Number (Prior to 5/15/2024)	Current Chapter Number	Previous Title and Description (Prior to 5/15/2024)	Current Title and Description	Actions Taken
20	20 (Reserved)	Scope of Title - Definitions	N/A	Definitions moved to Ch. 21, 22 and 23. Rescinded Ch. 20. (Reserved)
21	21	Compliance	Compliance, Excess Emissions, and Measurement of Emissions	Kept and combined with rules from Chapters 24, 25, 26, and 29.
22	22	Controlling Pollution-Permits	Controlling Air Pollution - Construction Permitting	Kept construction permit rules and combined with Ch. 20 (definitions) and Ch. 28 (NAAQS). Moved operating permit rules to Chapter 24.
22.100 - 22.300(12)	(New) 24	N/A	Operating Permits	Moved operating permit rules from Ch. 22 to Ch. 24.
23	23	Emission Standards	Air Emission Standards	Kept
24	(New) 21	Excess Emissions	Compliance, Excess Emissions, and Measurement of Emissions	Moved rules and combined with Ch. 21. Moved TV rules here (to Ch. 24).
25	(New) 21	Emissions Measurement	Compliance, Excess Emissions, and Measurement of Emissions	Moved rules and combined with Ch. 21. Rescinded Ch. 25. (Reserved)
26	(New) 21	Emergency Air Pollution Episodes	Compliance, Excess Emissions, and Measurement of Emissions	Moved rules and combined with Ch. 21. Rescinded Ch. 26. (Reserved)
27	27	Local Program Acceptance	Local Program Acceptance	Kept
28	22	NAAQS	N/A	Moved rules and combined with Ch. 22. Rescinded Ch. 28. (Reserved)
29	(New) 21	Opacity Qualifications	Compliance, Excess Emissions, and Measurement of Emissions	Moved rules and combined with Ch. 21. Rescinded Ch. 29. (Reserved)
30	30	Fees	Fee	Kept
31	31	Nonattainment Areas	Nonattainment New Source Review	Kept
32	N/A	AFO Field Study	N/A	Rescinded Ch. 32. (Reserved)
33	33	Special regulations and construction permit requirements for major stationary sources—Prevention of significant deterioration (PSD) of air quality	Construction permit requirements for major stationary sources—Prevention of significant deterioration (PSD)	Kept
34	N/A	Emissions Trading-CAIR-CAMR	N/A	Rescinded Ch. 34. (Reserved)
35	N/A	Grant Assistance Programs	N/A	Rescinded Ch. 35. (Reserved)

Previous Chapter Number (Prior to 5/15/2024)	Current Chapter Number	Previous Title and Description (Prior to 5/15/2024)	Current Title and Description	Actions Taken
20	20 (Reserved)	Scope of Title - Definitions	N/A	Definitions moved to Ch. 21, 22 and 23. Rescinded Ch. 20. (Reserved)
20.1	N/A	Scope of title	N/A	
20.2	Ch. 21, 22, 23	Definitions	Definitions	See beginning of Ch. 21, 22, and 23
20.3	N/A	Air quality forms generally	N/A	
21	21	Compliance	Compliance, Excess Emissions, and Measurement of Emissions	Kept and combined with rules from Chapters 24, 25, 26, and 29.
21.1	21.1	Compliance Schedule	Definitions and compliance requirements	Added definitions from Ch. 21, some language updated
21.2	21.2	Variances	Variances	Some language updated
21.3	21.3	Emission reduction program	Reserved	Reserved
21.4	21.4	Circumvention of rules	Circumvention of rules	Minor language updated
21.5	21.5	Evidence used in establishing that a violation has or is occurring	Evidence used in establishing that a violation has occurred or is occurring	21.5(2) Reserved, some language updated
21.6	21.6	Temporary electricity generation for disaster situations	Temporary electricity generation for disaster situations	Minor language updated
24.1	21.7	Excess emission reporting	Excess emission reporting	Moved from Ch. 24, some language updated
24.2	21.8	Maintenance and repair requirements	Maintenance and repair requirements	Moved from Ch. 24, some language updated
N/A	21.9	N/A	Compliance with other requirements	New language
25.1	21.10	Testing and sampling of new and existing equipment	Testing and sampling of new and existing equipment	Moved from Ch. 25, some language updated
25.2	21.11	Continuous emission monitoring under the acid rain program	Continuous emission monitoring under the acid rain program	Moved from Ch. 25, some language updated
25.3	N/A	Mercury emissions testing and monitoring	N/A	Rescinded. Except 25.3(5)
25.3(5)	21.12	Affected sources subject to Section 112(g)	Affected sources subject to Section 112(g)	Moved from Ch. 25, some language updated
29.1	21.13	Methodology and qualified observer	Methodology and qualified observer	Moved from Ch. 29, some language updated
26.1	21.14	Prevention of air pollution emergency episodes - General	Prevention of air pollution emergency episodes	Moved from Ch. 26, some language updated
26.2	21.15	Episode criteria	Episode criteria	Moved from Ch. 26, some language updated
26.3	21.16	Preplanned abatement strategies	Preplanned abatement strategies	Moved from Ch. 26, some language updated
26.4	21.17	Actions taken during episodes	Actions taken during episodes	Moved from Ch. 26, some language updated
Ch 26 Table III	Table I	Abatement strategies emission reduction actions alert level	Abatement strategies emission reduction actions alert level	Moved from Ch. 26, reference federal appendix table
Ch 26 Table IV	Table II	Abatement strategies emission reduction actions warning level	Abatement strategies emission reduction actions warning level	Moved from Ch. 26, reference federal appendix table
Ch 26 Table V	Table III	Abatement strategies emission reduction actions emergency level	Abatement strategies emission reduction actions emergency level	Moved from Ch. 26, reference federal appendix table
22	22	Controlling Pollution-Permits	Controlling Air Pollution - Construction Permitting	Kept construction permit rules and combined with Ch. 20 (definitions) and Ch. 28 (NAAQS). Moved operating permit rules to Chapter 24.
22.1	22.1	Permits required for new or existing stationary sources	Definitions and permit requirements for new or existing stationary sources	Added definitions from Ch. 20, some language updated
22.2	22.2	Processing permit applications	Processing permit applications	
22.3	22.3	Issuing permits	Issuing permits	
22.4	22.4	Special requirements for major stationary sources located in areas designated attainment or unclassified (PSD)	Major stationary sources located in areas designated attainment or unclassified (PSD)	
22.5	22.5	Special requirements for nonattainment areas	Major stationary sources located in areas designated Nonattainment	
22.6	22.6	Nonattainment area designations	Reserved	

Previous Chapter Number (Prior to 5/15/2024)	Current Chapter Number	Previous Title and Description (Prior to 5/15/2024)	Current Title and Description	Actions Taken
22.7	22.7	Alternative emission control program	Alternative emission control program	
22.8	22.8	Permit by rule	Permit by rule	
22.9	22.9	Special requirements for visibility protection	Special requirements for visibility protection	A lot of language updated or removed
22.10	22.10	Permitting requirements for country grain elevators, country grain terminal elevators, grain terminal elevators and feed mill equipment	Permitting requirements for country grain elevators, country grain terminal elevators, grain terminal elevators and feed mill equipment	
28.1	22.11	Ambient air quality standards - Statewide standards	Ambient air quality standards	Moved from Ch. 28, minor language updated
22.12 to 22.99	N/A	Reserved	N/A	Removed

22.100 - 22.300(12)	(New) 24	N/A	Operating Permits	Moved operating permit rules from Ch. 22 to Ch. 24.
22.100	24.100	Definitions for Title V operating permits	Definitions for Title V operating permits	Moved from Ch. 22, some language updated, many 40 CFR 70 definitions adopted by reference
22.101	24.101	Applicability of Title V operating permit requirements	Applicability of Title V operating permit requirements	Moved from Ch. 22, some language updated to correct punctuation and remove old dates
22.102	24.102	Source category exemptions	Source category exemptions	Moved from Ch. 22, some language updated to correct punctuation
22.103	24.103	Insignificant activities	Insignificant activities	Moved from Ch. 22, some language updated to correct typos and remove old dates
22.104	24.104	Requirement to have a Title V permit	Requirement to have a Title V permit	Moved from Ch. 22, some language updated no changes to rule text
22.105	24.105	Title V permit applications	Title V permit applications	Moved from Ch. 22, updated language to address electronic submissions and remove past application due dates
22.106	24.106	Annual Title V emissions inventory	Annual Title V emissions inventory	Moved from Ch. 22, no changes to rule text
22.107	24.107	Title V permit processing procedures	Title V permit processing procedures	Moved from Ch. 22, some language updated to update locations of public records and remove old CFR amendment dates
22.108	24.108	Permit content	Permit content	Moved from Ch. 22, some language updated to correct punctuation, remove old dates, and adopt 40 CFR 70 rules by reference
22.109	24.109	General permits	General permits	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.110	24.110	Changes allowed without a Title V permit revision (off-permit revisions)	Changes allowed without a Title V permit revision (off-permit revisions)	Moved from Ch. 22, some language updated to remove redundant language
22.111	24.111	Administrative amendments to Title V permits	Administrative amendments to Title V permits	Moved from Ch. 22, no changes to rule text
22.112	24.112	Minor Title V permit modifications	Minor Title V permit modifications	Moved from Ch. 22, no changes to rule text
22.113	24.113	Significant Title V permit modifications	Significant Title V permit modifications	Moved from Ch. 22, no changes to rule text
22.114	24.114	Title V permit reopenings	Title V permit re-openings	Moved from Ch. 22 to Ch. 24, some language updated to adopt 40 CFR 70 rules by reference
22.115	24.115	Suspension, termination, and revocation of Title V permits	Suspension, termination, and revocation of Title V permits	Moved from Ch. 22, no changes to rule text
22.116	24.116	Title V permit renewals	Title V permit renewals	Moved from Ch. 22, no changes to rule text
22.117-22.119	24.117-24.119	Reserved	Reserved	Moved from Ch. 22, no changes to rule text
22.120	24.120	Acid rain program—definitions	Acid rain program—definitions	Moved from Ch. 22, some language updated to remove old CFR amendment dates and address electronic submissions
22.121	24.121	Measurements, abbreviations, and acronyms	Reserved	Moved from Ch. 22, no changes to rule text
22.122	24.122	Applicability	Applicability	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.123	24.123	Acid rain exemptions	Acid rain exemptions	Moved from Ch. 22, some language updated to correct punctuation
22.124	24.124	Retired units exemption	Reserved	Moved from Ch. 22, no changes to rule text
22.125	24.125	Standard requirements	Standard requirements	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.126	24.126	Designated representative—submissions	Designated representative—submissions	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.127	24.127	Designated representative—objections	Designated representative—objections	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.128	24.128	Acid rain applications—requirement to apply	Acid rain applications—requirement to apply	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference

22.129	24.129	Information requirements for acid rain permit applications	Information requirements for acid rain permit applications	Moved from Ch. 22, no changes to rule text
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22.130	24.130	Acid rain permit application shield and binding effect of permit application	Acid rain permit application shield and binding effect of permit application	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.131	24.131	Acid rain compliance plan and compliance options—general	Acid rain compliance plan and compliance options—general	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.132	24.132	Repowering extensions	Reserved	Moved from Ch. 22, no changes to rule text
22.133	24.133	Acid rain permit contents—general	Acid rain permit contents—general	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.134	24.134	Acid rain permit shield	Acid rain permit shield	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.135	24.135	Acid rain permit issuance procedures—general	Acid rain permit issuance procedures—general	Moved from Ch. 22, no changes to rule text
22.136	24.136	Acid rain permit issuance procedures—completeness	Acid rain permit issuance procedures—completeness	Moved from Ch. 22, no changes to rule text
22.137	24.137	Acid rain permit issuance procedures—statement of basis	Acid rain permit issuance procedures—statement of basis	Moved from Ch. 22, no changes to rule text
22.138	24.138	Issuance of acid rain permits	Issuance of acid rain permits	Moved from Ch. 22, some language updated to remove old dates and deadlines
22.139	24.139	Acid rain permit appeal procedures	Acid rain permit appeal procedures	Moved from Ch. 22, no changes to rule text
22.140	24.140	Permit revisions—general	Permit revisions—general	Moved from Ch. 22, some language updated to remove old dates
22.141	24.141	Permit modifications	Permit modifications	Moved from Ch. 22, no changes to rule text
22.142	24.142	Fast-track modifications	Fast-track modifications	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.143	24.143	Administrative permit amendment	Administrative permit amendment	Moved from Ch. 22, some language updated to remove fax option
22.144	24.144	Automatic permit amendment	Automatic permit amendment	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.145	24.145	Permit reopenings	Permit re-openings	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.146	24.146	Compliance certification—annual report	Compliance certification—annual report	Moved from Ch. 22, no changes to rule text
22.147	24.147	Compliance certification—units with repowering extension plans	Reserved	Moved from Ch. 22, no changes to rule text
22.148	24.148	Sulfur dioxide opt-ins	Sulfur dioxide opt-ins	Moved from Ch. 22, some language updated to update the 40 CFR Part 74 amendment date
22.149 - 22.199	24.149 - 24.299	Reserved	Reserved	Moved from Ch. 22, no changes to rule text
22.200	24.200 - 24.299	Definitions for voluntary operating permits	Reserved	Moved from Ch. 22, no changes to rule text
22.201	24.200 - 24.299	Eligibility for voluntary operating permits	Reserved	Moved from Ch. 22, no changes to rule text
22.203	24.200 - 24.299	Voluntary operating permit applications	Reserved	Moved from Ch. 22, no changes to rule text
22.204	24.200 - 24.299	Voluntary operating permit fees	Reserved	Moved from Ch. 22, no changes to rule text
22.205	24.200 - 24.299	Voluntary operating permit processing procedures	Reserved	Moved from Ch. 22, no changes to rule text
22.206	24.200 - 24.299	Permit content	Reserved	Moved from Ch. 22, no changes to rule text
22.207	24.200 - 24.299	Relation to construction permits	Reserved	Moved from Ch. 22, no changes to rule text
22.208	24.200 - 24.299	Suspension, termination, and revocation of voluntary operating permits	Reserved	Moved from Ch. 22, no changes to rule text
22.209	24.200 - 24.299	Change of ownership for facilities with voluntary operating permits	Reserved	Moved from Ch. 22, no changes to rule text
22.210 - 22.299	24.200 - 24.299	Reserved	Reserved	Moved from Ch. 22, no changes to rule text
22.300	24.300	Operating permit by rule for small sources	Operating permit by rule for small sources	Moved from Ch. 22, no changes to rule text

23	23	Emission Standards	Air Emission Standards	Kept
23.1	23.1	Emission standards	Emission standards	Kept, language updated, tables used
23.2	23.2	Open burning	Open burning	Kept, some language updated
23.3	23.3	Specific contaminants	Specific contaminants	Kept, some language updated
23.4	23.4	Specific processes	Specific processes	Kept, some language updated
23.5	23.5	Anaerobic lagoons	Anaerobic lagoons	Kept, some language updated
23.6	23.6	Alternative emission limits (the “bubble concept”)	Reserved	Removed

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24	(New) 21	Excess Emissions	Compliance, Excess Emissions, and Measurement of Emissions	Moved rules and combined with Ch. 21. Moved operating permit rules here (to Ch. 24).
24.1	21.7	Excess emission reporting	Excess emission reporting	Moved from Ch. 24, some language updated
24.2	21.8	Maintenance and repair requirements	Maintenance and repair requirements	Moved from Ch. 24, some language updated
25	(New) 21	Emissions Measurement	Compliance, Excess Emissions, and Measurement of Emissions	Moved rules and combined with Ch. 21. Rescinded Ch. 25. (Reserved)
25.1	21.10	Testing and sampling of new and existing equipment	Testing and sampling of new and existing equipment	Moved from Ch. 25, some language updated
25.2	21.11	Continuous emission monitoring under the acid rain program	Continuous emission monitoring under the acid rain program	Moved from Ch. 25, some language updated
25.3		Mercury emissions testing and monitoring	N/A	Rescinded. Except 25.3(5)
25.3(5)	21.12	Affected sources subject to Section 112(g)	Affected sources subject to Section 112(g)	Moved from Ch. 25, some language updated
26	(New) 21	Emergency Air Pollution Episodes	Compliance, Excess Emissions, and Measurement of Emissions	Moved rules and combined with Ch. 21. Rescinded Ch. 26. (Reserved)
26.1	21.14	Prevention of air pollution emergency episodes - General	Prevention of air pollution emergency episodes	Moved from Ch. 26, some language updated
26.2	21.15	Episode criteria	Episode criteria	Moved from Ch. 26, some language updated
26.3	21.16	Preplanned abatement strategies	Preplanned abatement strategies	Moved from Ch. 26, some language updated
26.4	21.17	Actions taken during episodes	Actions taken during episodes	Moved from Ch. 26, some language updated
Ch 26 Table III	Table I	Abatement strategies emission reduction actions alert level	Abatement strategies emission reduction actions alert level	Moved from Ch. 26, reference federal appendix table
Ch 26 Table IV	Table II	Abatement strategies emission reduction actions warning level	Abatement strategies emission reduction actions warning level	Moved from Ch. 26, reference federal appendix table
Ch 26 Table V	Table III	Abatement strategies emission reduction actions emergency level	Abatement strategies emission reduction actions emergency level	Moved from Ch. 26, reference federal appendix table
27	27	Local Program Acceptance	Local Program Acceptance	Kept
27.1	27.1	General	General	Kept, some language updated
27.2	27.2	Certificate of acceptance	Certificate of acceptance	Kept, some language updated
27.3	27.3	Ordinance or regulations	Ordinance or regulations	Kept, some language updated
27.4	27.4	Administrative organization	Administrative organization	Kept, some language updated
27.5	27.5	Program activities	Program activities	Kept, some language updated
28	22	NAAQS	N/A	Moved rules and combined with Ch. 22. Rescinded Ch. 28. (Reserved)
28.1	22.11	Ambient air quality standards - Statewide standards	Ambient air quality standards	Moved from Ch. 28, minor language updated Rescinded Ch. 28. (Reserved)
29	(New) 21	Opacity Qualifications	Compliance, Excess Emissions, and Measurement of Emissions	Moved rules and combined with Ch. 21. Rescinded Ch. 29. (Reserved)
29.1	21.13	Methodology and qualified observer	Methodology and qualified observer	Moved from Ch. 29, some language updated

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30	30	Fees	Fee	Kept
30.1	30.1	Purpose	Purpose	Kept, language updated
30.2	30.2	Fees associated with new source review applications	Fees associated with new source review applications	Kept, some language updated
30.3	30.3	Fees associated with asbestos demolition or renovation notification	Fees associated with asbestos demolition or renovation notification	Kept, some language updated
30.4	30.4	Fees associated with Title V operating permits	Fees associated with Title V operating permits	Kept, some language updated
30.5	30.5	Fee advisory groups	Fee advisory groups	Kept, language updated
30.6	30.6	Process to establish or adjust fees and notification of fee rates	Process to establish or adjust fees and notification of fee rates	Kept, some language updated
30.7	30.7	Fee revenue	Reserved	Language removed
31	31	Nonattainment Areas	Nonattainment New Source Review	Kept
31.1	31.1	Permit requirements relating to nonattainment areas	Permit requirements relating to nonattainment areas	Kept, some language updated
31.2	31.2	Conformity of general federal actions to the Iowa state implementation plan or federal implementation plan - Rescinded	Reserved	Language removed
31.3	31.3	Nonattainment new source review requirements for areas designated nonattainment on or after May 18, 1998	Nonattainment new source review (NNSR) requirements for areas designated nonattainment	Kept, some language updated
31.4	31.4	Preconstruction review permit program	Preconstruction review permit program	Kept
31.5 - 31.8	31.5 - 31.8	Reserved	Reserved	Kept
31.9	31.9	Actuals PALs	Actuals PALs	Kept, some language updated
31.10	31.10	Validity of rules	Validity of rules	Kept
31.11 - 31.19	N/A	Reserved	N/A	Rescinded and removed
31.20	N/A	Special requirements for nonattainment areas designated before May 18, 1998	N/A	Rescinded and removed
32	N/A	AFO Field Study	N/A	Rescinded Ch. 32. (Reserved)
32.1	N/A	Animal feeding operations field study	N/A	Rescinded, reserved, and language removed
32.2	N/A	Definitions	N/A	Rescinded, reserved, and language removed
32.3	N/A	Exceedance of the health effects value (HEV) for hydrogen sulfide	N/A	Rescinded, reserved, and language removed
32.4	N/A	Exceedance of the health effects standard (HES) for hydrogen sulfide	N/A	Rescinded, reserved, and language removed
32.5	N/A	Iowa Air Sampling Manual	N/A	Rescinded, reserved, and language removed
33	33	Special regulations and construction permit requirements for major stationary sources—Prevention of significant deterioration (PSD) of air quality	Construction permit requirements for major stationary sources—Prevention of significant deterioration (PSD)	Kept
33.1	33.1	Purpose	Purpose	Kept, some language updated
33.2	33.2	Reserved	Reserved	Kept
33.3	33.3	Special construction permit requirements for major stationary sources in areas designated attainment or unclassified (PSD)	PSD construction permit requirements for major stationary sources	Kept, some language updated
33.4 - 33.8	33.4 - 33.8	Reserved	Reserved	Kept
33.9	33.9	Plantwide applicability limitations (PALs)	Plantwide applicability limitations (PALs)	Kept, some language updated
33.10	33.10	Exceptions to adoption by reference	Exceptions to adoption by reference	Kept, some language updated

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34	N/A	Emissions Trading-CAIR-CAMR	N/A	Rescinded Ch. 34. (Reserved)
34.1	N/A	Purpose	N/A	Rescinded, reserved, and language removed
34.2 - 34.199	N/A	Reserved	N/A	Rescinded, reserved, and language removed
34.200	N/A	Provisions for air emissions trading and other requirements for the Clean Air Interstate Rule (CAIR) - rescinded	N/A	Rescinded, reserved, and language removed
34.201	N/A	CAIR NOx annual trading program general provisions - rescinded	N/A	Rescinded, reserved, and language removed
34.202	N/A	CAIR designated representative for CAIR NOx sources - rescinded	N/A	Rescinded, reserved, and language removed
34.203	N/A	Permits - rescinded	N/A	Rescinded, reserved, and language removed
34.204	N/A	Reserved	N/A	Rescinded, reserved, and language removed
34.205	N/A	CAIR NOx allowance allocations - rescinded	N/A	Rescinded, reserved, and language removed
34.206	N/A	CAIR NOx allowance tracking system - rescinded	N/A	Rescinded, reserved, and language removed
34.207	N/A	CAIR NOx allowance transfers - rescinded	N/A	Rescinded, reserved, and language removed
34.208	N/A	Monitoring and reporting - rescinded	N/A	Rescinded, reserved, and language removed
34.209	N/A	CAIR NOx opt-in units - rescinded	N/A	Rescinded, reserved, and language removed
34.210	N/A	CAIR SO2 trading program - rescinded	N/A	Rescinded, reserved, and language removed
34.211 - 34.219	N/A	Reserved	N/A	Rescinded, reserved, and language removed
34.220	N/A	CAIR NOx ozone season trading program - rescinded	N/A	Rescinded, reserved, and language removed
34.221	N/A	CAIR NOx ozone season trading program general provisions - rescinded	N/A	Rescinded, reserved, and language removed
34.222	N/A	CAIR designated representative for CAIR NOx ozone season sources - rescinded	N/A	Rescinded, reserved, and language removed
34.223	N/A	CAIR NOx ozone season permits - rescinded	N/A	Rescinded, reserved, and language removed
34.224	N/A	Reserved	N/A	Rescinded, reserved, and language removed
34.225	N/A	CAIR NOx ozone season allowance allocations - rescinded	N/A	Rescinded, reserved, and language removed
34.226	N/A	CAIR NOx ozone season allowance tracking system - rescinded	N/A	Rescinded, reserved, and language removed
34.227	N/A	CAIR NOx ozone season allowance transfers - rescinded	N/A	Rescinded, reserved, and language removed
34.228	N/A	CAIR NOx ozone season monitoring and reporting - rescinded	N/A	Rescinded, reserved, and language removed
34.229	N/A	CAIR NOx ozone season opt-in units - rescinded	N/A	Rescinded, reserved, and language removed
34.230 - 34.299	N/A	Reserved	N/A	Rescinded, reserved, and language removed
34.300	N/A	Provisions for air emissions trading and other requirements for the Clean Air Mercury Rule (CAMR) - rescinded	N/A	Rescinded, reserved, and language removed
34.301	N/A	Mercury (Hg) budget trading program general provisions - rescinded	N/A	Rescinded, reserved, and language removed
34.302	N/A	Hg designated representative for Hg budget sources - rescinded	N/A	Rescinded, reserved, and language removed
34.303	N/A	General Hg budget trading program permit requirements - rescinded	N/A	Rescinded, reserved, and language removed
34.304	N/A	Hg allowance allocations - rescinded	N/A	Rescinded, reserved, and language removed
34.305	N/A	Hg allowance tracking system - rescinded	N/A	Rescinded, reserved, and language removed

34.306	N/A	Hg allowance transfers - rescinded	N/A	Rescinded, reserved, and language removed
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34.307	N/A	Monitoring and reporting - rescinded	N/A	Rescinded, reserved, and language removed
34.308	N/A	Performance specifications - rescinded	N/A	Rescinded, reserved, and language removed
35	N/A	Grant Assistance Programs	N/A	Rescinded Ch. 35. (Reserved)
35.1	N/A	Purpose	N/A	Rescinded, reserved, and language removed
35.2	N/A	Definitions	N/A	Rescinded, reserved, and language removed
35.3	N/A	Role of the department of natural resources	N/A	Rescinded, reserved, and language removed
35.4	N/A	Eligible projects	N/A	Rescinded, reserved, and language removed
35.5	N/A	Forms	N/A	Rescinded, reserved, and language removed
35.6	N/A	Project selection	N/A	Rescinded, reserved, and language removed
35.7	N/A	Funding sources	N/A	Rescinded, reserved, and language removed
35.8	N/A	Type of financial assistance	N/A	Rescinded, reserved, and language removed
35.9	N/A	Term of loans	N/A	Rescinded, reserved, and language removed
35.10	N/A	Reduced award	N/A	Rescinded, reserved, and language removed
35.11	N/A	Fund disbursement limitations	N/A	Rescinded, reserved, and language removed
35.12	N/A	Applicant cost share	N/A	Rescinded, reserved, and language removed
35.13	N/A	Eligible costs	N/A	Rescinded, reserved, and language removed
35.14	N/A	Ineligible costs	N/A	Rescinded, reserved, and language removed
35.15	N/A	Written agreement	N/A	Rescinded, reserved, and language removed
35.16	N/A	Financial assistance denial	N/A	Rescinded, reserved, and language removed