

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

**Name of Permitted Facility: Big River Resources West Burlington
LLC**

Facility Location: 15210 103rd St., West Burlington, IA 52655

Air Quality Operating Permit Number: 09-TV-005R2-M001

Expiration Date: February 14, 2027

Permit Renewal Application Deadline: August 14, 2026

EIQ Number: 92-7013

Facility File Number: 29-02-012

Responsible Official

Name: Brian Schasel

Title: Environmental/Technical Director

Mailing Address: 211 N. Gear Avenue, West Burlington, IA 52655

Phone #: 319-753-1100

Permit Contact Person for the Facility

Name: Brian Schasel

Title: Environmental/Technical Director

Mailing Address: 211 N. Gear Avenue, West Burlington, IA 52655

Phone #: 319-753-1100

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



02/24/2025

Marnie Stein, Supervisor of Air Operating Permits Section

Date

Table of Contents

| | |
|--|------------|
| I. Facility Description and Equipment List | 4 |
| II. Plant - Wide Conditions | 7 |
| III. Emission Point Specific Conditions | 11 |
| IV. General Conditions | 116 |
| G1. Duty to Comply | |
| G2. Permit Expiration | |
| G3. Certification Requirement for Title V Related Documents | |
| G4. Annual Compliance Certification | |
| G5. Semi-Annual Monitoring Report | |
| G6. Annual Fee | |
| G7. Inspection of Premises, Records, Equipment, Methods and Discharges | |
| G8. Duty to Provide Information | |
| G9. General Maintenance and Repair Duties | |
| G10. Recordkeeping Requirements for Compliance Monitoring | |
| G11. Evidence used in establishing that a violation has or is occurring. | |
| G12. Prevention of Accidental Release: Risk Management Plan Notification and Compliance Certification | |
| G13. Hazardous Release | |
| G14. Excess Emissions and Excess Emissions Reporting Requirements | |
| G15. Permit Deviation Reporting Requirements | |
| G16. Notification Requirements for Sources That Become Subject to NSPS and NESHAP Regulations | |
| G17. Requirements for Making Changes to Emission Sources That Do Not Require Title V Permit Modification | |
| G18. Duty to Modify a Title V Permit | |
| G19. Duty to Obtain Construction Permits | |
| G20. Asbestos | |
| G21. Open Burning | |
| G22. Acid Rain (Title IV) Emissions Allowances | |
| G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements | |
| G24. Permit Reopenings | |
| G25. Permit Shield | |
| G26. Severability | |
| G27. Property Rights | |
| G28. Transferability | |
| G29. Disclaimer | |
| G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification | |
| G31. Prevention of Air Pollution Emergency Episodes | |
| G32. Contacts List | |
| V. Appendix A: Weblinks to Standards | 130 |
| VI. Appendix B: IAC Executive Order 10 Code Changes Crosswalk | 131 |

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 |
| DNR | Iowa Department of Natural Resources |
| MMgal/yr..... | Million gallons per year |
| MVAC..... | motor vehicle air conditioner |
| NAICS..... | North American Industry Classification System |
| NSPS..... | new source performance standard |
| NESHAP | National Emission Standards for Hazardous Air Pollutants |
| ppmv | parts per million by volume |
| lb./hr | pounds per hour |
| lb./MMBtu | pounds per million British thermal units |
| SCC | Source Classification Codes |
| scfm..... | standard cubic feet per minute |
| SIC | Standard Industrial Classification |
| TPY | tons per year |
| USEPA..... | United States Environmental Protection Agency |

Pollutants

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

I. Facility Description and Equipment List

Facility Name: Big River Resources West Burlington LLC

Permit Number: 09-TV-005R2-M001

Facility Description: Denatured Ethanol Plant (SIC 2869)

Equipment List

| Emission Point Number | Emission Unit Number | Emission Unit Description | DNR Construction Permit Number |
|------------------------------|-----------------------------|----------------------------------|---------------------------------------|
| S10 | DR-7103 | Natural Gas Dryer A | 03-A-048-S9 |
| | DR-7203 | Natural Gas Dryer B | |
| | B10 | Heat Recovery Boiler | |
| | S10 | Distillation | |
| | ET-4501 | 190 Condenser | |
| | TS-2201 | Slurry Tank #1 | |
| | TS-25001 | Slurry Tank #2 | |
| | TP-4507 | Reflux Tank, Side 1 | |
| | TP-4608 | Regen Tank, Side 1 | |
| S10B | DR-7103B | Natural Gas Dryer C | 06-A-623-S3 |
| | DR-7203B | Natural Gas Dryer D | |
| | B10B | Heat Recovery Boiler | |
| | S10B | Distillation | |
| | ET-5501 | 190 Condenser | |
| | TS-2201 | Slurry Tank #1 | |
| | TS-25001 | Slurry Tank #2 | |
| | TP-5507 | Reflux Tank, Side 2 | |
| TP-5608 | Regen Tank, Side 2 | | |
| S20 | BF-176 | Grain Unloading | 03-A-049-S2 |
| | BF-103A | Grain Bin | |
| | BF-103B | Grain Bin | |
| S25 | CD-15056 | South Pit Conveyor | 13-A-454-S2 |
| | CD-15057 | South Pit Transfer conveyor | |
| | CD-15158 | North Pit Conveyor | |
| | CD-15157 | Reclaim Conveyor | |
| | CD-15159 | Pit transfer conveyor | |
| | CD-15001 | Middle Leg | |
| | CD-15002 | West Leg | |
| | CD-15003 | East Leg | |
| | CD-15201 | Dryer reclaim conveyor | |
| | CD-15255 | Bin 15256 fill conveyor | |
| | CD-15257 | Reclaim conveyor | |
| | CD-15155 | Bin 15156 fill conveyor | |
| | CD-15159B | Transfer belt conveyor | |

| Emission Point Number | Emission Unit Number | Emission Unit Description | DNR Construction Permit Number |
|------------------------------|-----------------------------|---|---------------------------------------|
| S25 | CD-15301 | Transfer belt conveyor 1 | 13-A-454-S2 |
| | CD-15302 | Transfer belt conveyor 2 | |
| | CD-15303 | Transfer belt conveyor 3 | |
| | CD-15304 | Transfer belt conveyor 4 | |
| | CD-15060 | Outlet diverter | |
| | CD-15062 | Outlet diverter | |
| | CD-15062B | Outlet diverter | |
| | CD-15152 | Outlet diverter | |
| | CD-15156 | Outlet diverter | |
| S30 | S30 | Hammermill | 03-A-050-S2 |
| S30B | S30B | Hammermill | 05-A-816-S2 |
| S40 | TF-3101 | Fermenter 1 | 05-A-817-S6 |
| | TF-3102 | Fermenter 2 | |
| | TF-3201 | Fermenter 3 | |
| | TF-3202 | Fermenter 4 | |
| | TF-3203 | Fermenter 5 | |
| | TF-3204 | Fermenter 6 | |
| | TF-3103 | Fermenter 7 | |
| | TF-3301 | Beer Well | |
| S40B | TF-3101 | Fermenter 1 | 06-A-624-S5 |
| | TF-3102 | Fermenter 2 | |
| | TF-3201 | Fermenter 3 | |
| | TF-3202 | Fermenter 4 | |
| | TF-3203 | Fermenter 5 | |
| | TF-3204 | Fermenter 6 | |
| | TF-3103 | Fermenter 7 | |
| | TF-3301 | Beer Well | |
| S50 | S50 | Truck Product Loadout | 03-A-055-S4 |
| S50B | S50B | Rail and Truck Product Loadout | 06-A-631-S1 |
| S70 | P70 | DDGS Cooler Cyclone | 03-A-052-S5 |
| S70B | S70B | DDGS Cooler Cyclone | 06-A-625-S2 |
| S80 | S80 | Cooling Tower | 05-A-368-S2 |
| S80B | S80B | Cooling Tower | 06-A-626 |
| S90 | P90 | DDGS Loading | 03-A-053-S3 |
| S90B | P90B | DDGS Loading | 06-A-627-S1 |
| S101 | S101 | Storage Bin | 06-A-111-S1 |
| S105 | S105 | Storage Bin | 06-A-112-S1 |
| S201 | P201 | Storage Bin | 13-A-455-S1 |
| S203 | P203 | Wet Storage Bin | 13-A-456-S1 |
| S205 | S205 | Storage Bin | 15-A-167-S1 |
| T61 | T61 | Ethanol Storage Tank – 750,000 gallons | 03-A-056-S2 |
| T62 | T62 | Ethanol Storage Tank – 750,000 gallons | 03-A-057-S2 |
| T63 | T63 | Storage Tank – 100,000 gallons | 03-A-058-S1 |
| T64 | T64 | Denaturant Storage Tank – 100,000 gallons | 03-A-059-S1 |

| Emission Point Number | Emission Unit Number | Emission Unit Description | DNR Construction Permit Number |
|------------------------------|-----------------------------|---|---------------------------------------|
| T65 | T65 | 190 Proof Ethanol Storage Tank – 100,000 gallons | 03-A-060-S1 |
| T66 | T66 | Ethanol Storage Tank – 750,000 gallons | 06-A-628-S1 |
| T67 | T67 | Ethanol Storage Tank – 750,000 gallons | 06-A-629-S1 |
| T68 | T68 | Ethanol Storage Tank – 200,000 gallons | 06-A-630 |
| GRNDRY1 | GRNDRY1 | Grain Dryer | 13-A-453 |
| FWP | FWP | Emergency Fire Water Pump – 311 BHP | NA |
| F50 | F50 | Fugitive Emissions from Truck and Rail Product Loading (not controlled by flares) | NA |
| F100 | F100 | Fugitive Emissions w grain/DDGS handling | NA |
| F110 | F110 | Fugitive Emissions Equipment Leaks | 05-A-370-S4 |
| F120 | F120 | Fugitive Emissions Truck Traffic on Paved Roads | 05-A-369-S2 |

Insignificant Activities Equipment List

| Insignificant Emission Unit Number | Insignificant Emission Unit Description |
|---|--|
| S51 | Truck Loadout Rack - Corn Oil |
| T67B | Corn Oil #1 Tank (23,000 gal) |
| T68B | Corn Oil #2 Tank (23,000 gal) |
| T69 | Corn Oil Tank (3,000 gal) |
| T70 | Syrup Storage Tank Rated Capacity: 1,000 gallons |
| T71 | Syrup Storage Tank (200 gal) |
| IPV | Insignificant Process Vent |
| CIT | Corrosion Inhibitor Tank |
| TS2 | Corn Oil Extraction System 2 |

II. Plant-Wide Conditions

Facility Name: Big River Resources West Burlington LLC
Permit Number: 09-TV-005R2-M001

Permit conditions are established in accord with 567 Iowa Administrative Code rule 24.108

Permit Duration

The term of this permit is: Five years from permit issuance
Commencing on: February 15, 2022
Ending on: February 14, 2027

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 21. 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 21.

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

Fugitive Dust: Attainment and Unclassified Areas - A person shall take reasonable precautions to prevent particulate matter from becoming airborne in quantities sufficient to cause a nuisance as

defined in Iowa Code section 657.1 when the person allows, causes or permits any materials to be handled, transported or stored on 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"

Plant-Wide Operating Limits and Requirements

Operating Limits

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

1. Plant-wide, grain usage shall not exceed 46,428,573 bushels per twelve-month rolling period.
2. Plant-wide, the total amount of denatured ethanol loaded out by truck or rail shall not exceed 130,000,000 gallons per twelve-month rolling period.
3. Plant-wide, the owner or operator is limited to blending a maximum of 6.5 million gallons of denaturant (gasoline) with ethanol per twelve-month rolling period.
4. Plant-wide, DDGS Production shall not exceed 379,590 tons per twelve-month rolling period.

Reporting and Recordkeeping

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

1. Plant-wide record the amount of grain received, and update the amount received per twelve-month rolling period on a monthly basis.
2. The owner or operator shall keep records of the amount of product loaded out plant-wide, and update the twelve-month rolling total on a monthly basis.
3. The owner or operator shall keep records of the amount of denaturant used plant-wide, and update the twelve-month rolling total on a monthly basis.
4. Plant-wide, determine the cumulative amount of DDGS on a rolling-12-month basis for each month of operation.

Authority for Requirement: DNR Construction Permits 03-A-048-S9, 03-A-055-S4,
06-A-631-S1, 03-A-053-S3, 06-A-627-S1

NSPS and NESHAP Requirements

40 CFR Part 60 Subpart A

This facility is an affected source and these General Provisions apply to the facility. The affected units are B10, B10B, T61, T62, T63, T64, T65, T66, T67, T68, S25, GRNDRY1, FWP, and all units in VOC service and any applicable devices and systems in the entire facility. See Appendix for a link to the Standard.

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

40 CFR Part 60 Subpart Db

This facility is subject to Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units. The affected units are B10 and B10B. See Appendix for a link to the Standard.

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

40 CFR Part 60 Subpart Kb

This facility is subject to the Standards of Performance for Volatile Organic Liquid storage vessels (including petroleum liquids). This is applicable for storage tanks constructed after July 1984. The affected units are T61, T62, T63, T64, T65, T66, T67, and T68. See Appendix for a link to the Standard.

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

40 CFR Part 60 Subpart DD

This facility is subject to the Standards of Performance for Grain Elevators. The affected units are S25 and GRNDRY1.

See Appendix for a link to the Standard.

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

40 CFR Part 60 Subpart IIII

This facility is subject to the Standards of Performance for Stationary Compression Ignition Internal Combustion Engines. The affected unit is FWP.

See Appendix for a link to the Standard.

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

40 CFR Part 60 Subpart VV

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

See Appendix for a link to the Standard.

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

40 CFR Part 63 Subpart A

This facility is an affected source and these General Provisions apply to the facility. The affected unit is FWP.

See Appendix for a link to the Standard.

Authority for Requirements: 40 CFR Part 63 Subpart A
567 IAC 23.1(4)"a"

40 CFR Part 63 Subpart ZZZZ

This facility is subject to the National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. The affected unit is FWP.

See Appendix for a link to the Standard.

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

III. Emission Point-Specific Conditions

Facility Name: Big River Resources West Burlington
Permit Number: 09-TV-005R2-M001

Emission Point ID Number: EP-S10

Associated Equipment

Associated Emission Unit ID Numbers: DR-7103, DR-7203, B10, S10, ET-4501, TS-2201, TS-25001, TP-4507, TP-4608

Emissions Control Equipment ID Number: C10a

Emissions Control Equipment Description: Thermal Oxidizer (135 MMBtu/hr)

Continuous Emissions Monitors ID Number: CEMS1

| Emission Point Number | Emission Unit Number | Emission Unit Description | Raw Material | Rated Capacity |
|-----------------------|----------------------|---------------------------|--------------|----------------|
| S10 | DR-7103 | DDGS Dryer A | Natural Gas | 45 MMBtu/hr |
| | DR-7203 | DDGS Dryer B | Natural Gas | 45 MMBtu/hr |
| | B10 | Heat Recovery Boiler | Waste Heat | 135 MMBtu/hr |
| | S10 | Distillation | Ethanol | 65 MMgal/yr |
| | ET-4501 | 190 Condenser | Beer | 85 MMgal/yr |
| | TS-2201 | Slurry Tank #1 | Mash | 16,000 gallons |
| | TS-25001 | Slurry Tank #2 | Mash | 16,000 gallons |
| | TP-4507 | Reflux Tank, Side 1 | Beer | 600 gallons |
| | TP-4608 | Regen Tank, Side 1 | Beer | 600 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 03-A-048-S9
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 4.33 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-048-S9

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf; 4.33 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-048-S9
567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO₂)
Emission Limit(s): 9.89 lb/hr; 500 ppmv
Authority for Requirement: DNR Construction Permit 03-A-048-S9
567 IAC 23.3(3)

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit(s): 15.75 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-048-S9

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 4.33 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-048-S9

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 20.22 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-048-S9

Pollutant: Acetaldehyde
Emission Limit(s): 0.14 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-048-S9

Pollutant: Non-Acetaldehyde Single HAP
Emission Limit(s): 0.50 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-048-S9

Pollutant: Total HAP
Emission Limit(s): 1.39 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-048-S9

Operating Requirements with Associated Monitoring and Recordkeeping

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

- A. The owner or operator shall follow the applicable standards of Subpart Db, 40 CFR 60.40b through 60.49b.
- B. The dryers/thermal oxidizer shall combust only natural gas and/or process off-gases.
- C. The owner or operator shall record and maintain records of the amounts of each fuel combusted during each day, and calculate the annual capacity factor on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month, as required in 40 CFR 60.49b(d). The annual capacity factor is defined as the ratio between the actual heat input to a steam generating unit during a calendar year, and the potential heat input had it been operated for 8,760 hours during a calendar year at the maximum steady state design heat input capacity.
- D. The owner or operator shall maintain records of the following information for each steam generating unit operating day, as required in 40 CFR 60.49b(g). This information shall also be submitted in a report, as required in 40 CFR 60.49b(i)
 - a. Calendar date
 - b. Average hourly nitrogen oxides emission (as NO₂) rates measured or predicted.
 - c. 30-day average nitrogen oxides emission rates calculated at the end of each steam generating unit operating day from the measured hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days.
 - d. Identification of the steam generating unit operating days when the calculated 30-day average nitrogen oxides emission rates are in excess of the emission standard, with the reason for such excess emissions as well as a description of corrective actions taken.
 - e. Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken.
 - f. Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data. (NOTE: when the NO_x CEM is experiencing downtime, the facility is required to estimate emissions based on the 3-hour average emission rate prior to the downtime.)
 - 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 CMS to comply with Performance Specification 2 or 3.

- j. Results of daily CEMS drift tests and quarterly accuracy assessments as required under 40 CFR Appendix F, Procedure 1.
- E. The thermal oxidizer shall be maintained at a minimum operating temperature of 1,450 degrees F (measured as a three-hour average). The thermal oxidizer shall be operated at all times the dryers or distillation equipment is being used.
- F. The owner or operator shall keep hourly records of the operating temperature of the thermal oxidizer. The owner or operator shall record all three-hour periods (during actual operations) during which the average temperature of the thermal oxidizer is not within the range of 1,450 degrees F to 1,625 degrees F.
- G. The control equipment shall be inspected and maintained according to manufacturer's recommendations.
- H. The owner or operator shall keep records of control equipment inspections and repairs.
- I. Plant-wide, grain usage shall not exceed 46,428,573 bushels per twelve-month rolling period.
- J. Plant-wide record the amount of grain received, and update the amount received per twelve-month rolling period on a monthly basis.

Authority for Requirement: DNR Construction Permit 03-A-048-S9
40 CFR Part 60 Subpart Db
567 IAC 23.1(2) "ccc"

NSPS Applicability

This emission point is subject to NSPS Subpart A – General Provisions and Subpart Db – Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units.

Authority for Requirement: DNR Construction Permit 03-A-048-S9
40 CFR Part 60 Subpart A
567 IAC 23.1(2)
40 CFR Part 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): 66
Exhaust Flow Rate (scfm): 76,600
Exhaust Temperature (°F): 300
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 03-A-048-S9

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

Monitoring Requirements

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

Continuous Emission Monitoring

The owner or operator shall install, calibrate, maintain and operate a continuous monitoring system, and record the output of the system, for measuring nitrogen oxides (NO_x) emissions discharged to the atmosphere. The CEM shall be operated and data collected as required under 40 CFR 60.48b(c), (d), (e) and (f).

Pollutant - NO_x

Operational Specifications – 40 CFR 60 Appendix B

Date of Initial System Calibration and Quality Assurance – 04/15/2005

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

Reporting & Record keeping – 40 CFR Part 60, Appendix B

Authority for Requirement – 567 IAC 21.10 (9)

Other Parameters

Pollutant – Dilute O₂

Operational Specifications – 40 CFR Part 60, Appendix B

Date of Initial System Calibration and Quality Assurance – 04/15/2005

Ongoing System Calibration/Quality Assurance – Engineering Experience

Reporting & Record keeping – Engineering Experience

Authority for Requirement – 567 IAC 21.10 (9)

Authority for Requirement: DNR Construction Permit 03-A-048-S9

Stack Testing:

Pollutant – VOC ⁽¹⁾

Frequency – Once every 36 months

Test Method - 40 CFR 63, Appendix A, Method 320 or
40 CFR 60, Appendix A, Method 18

Authority for Requirement - DNR Construction Permit 03-A-048-S9

Pollutant – Hazardous Air Pollutant (HAP) ⁽¹⁾⁽²⁾

Frequency – Once every 36 months

Test Method - 40 CFR 63, Appendix A, Method 320 or
40 CFR 60, Appendix A, Method 18

Authority for Requirement - DNR Construction Permit 03-A-048-S9

⁽¹⁾ Most recent test conducted in June 2022.

⁽²⁾ In addition, acrolein, acetaldehyde, formaldehyde and methanol shall be tested for specifically.

The owner of this equipment or the owner’s authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 21.10(7)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 24.108(3)

Compliance Assurance Monitoring Plan CAM Plan for EP-S10 Thermal Oxidizer

I. Background

A. Emissions Unit:

Description: Natural Gas Fired Dryers A & B (45 MMBtu/hr each)
Heat Recovery Boiler
Distillation
190 Condenser; Slurry Tank #1; Slurry Tank #2; Reflux Tank, Side 1;
Regen Tank, Side 1
Identification: EU-DR7103, EU-DR7203, EU-B10, EU-S10, EU-ET-4501, EU-TS-2201,
EU-TS-25001, EU-TP-4507, EU-TP-4608
Facility: Big River Resources West Burlington LLC
15210 103rd St.,
West Burlington, IA 52655

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation No.: DNR Construction Permit 03-A-048-S9
Limits: VOC limit – 4.33 lb/hr
HAP limit – 1.39 lb/hr total HAP
HAP limit – 0.50 lb/hr Non-Acetaldehyde Single HAP
Acetaldehyde limit – 0.14 lb/hr
CO limit – 20.22 lb/hr
PM/PM limit – 4.33 lb/hr

Control: CE-C10a, Thermal Oxidizer 135 MMBtu/hr

II. Monitoring Approach

See Table I

MONITORING APPROACH JUSTIFICATION

A. Background

The dryers/thermal oxidizer system (EP-S10) at the Big River Resources West Burlington, LLC plant is subject to the Compliance Assurance Monitoring (CAM) requirements as listed in 40 CFR Part 64. Dryers A&B (EU-S10 and associated process vents) are controlled by a 135 MMBtu/hr thermal oxidizer (CE-C10a). The thermal oxidizer controls the pollutants that trigger the CAM requirements, including VOC, HAPS, CO, and PM/PM10.

B. Rationale for Selection of Performance Indicators

The rate at which VOC, HAPS, CO, PM/PM10 are controlled is greatly affected by temperature. As such, the monitoring approach relies on the fact that low temperatures indicate potential for insufficient destruction of applicable pollutants as well as the fact that higher temperatures are related to good performance. The proposed minimum outlet

combustion chamber temperature and range are based on compliance testing data and engineering knowledge of the thermal oxidizer being used. The thermal oxidizer will be maintained at a minimum temperature of 1,450°F (measured as a 3-hour average). Should the temperature fall below the minimum (3- hour average), this will be logged and reported in the semiannual report.

The outlet combustion temperature is monitored on a constant basis using the CEMS system. The temperature is monitored on a constant basis to assure the temperature does not go above or below the set range. A warning message is sent when the temperature falls out of the specified range.

Implementation of a thermal oxidizer inspection and maintenance (I/M) program provides assurance that this equipment is in good repair and is being properly operated. Once per day, a plant walk through is conducted. Any excursions or abnormalities noticed are inspected closer to determine if further maintenance or repair is needed. Proper operation of the thermal oxidizers facilitates proper pollutant reduction.

C. Rationale for Selection of Indicators

The indicator for minimum temperature was selected based on manufacturer's suggested operating temperatures, performance testing, and limits in current IDNR construction permits. Baseline combustion temperature measurements are concurrent with emissions testing. The minimum temperature is listed in the background section above. Operating according to manufacturer specifications and inspections was chosen as an indicator because this can ensure proper operations of the device, especially when combined with the temperature indicator listed above.

Table 1. Monitoring Approach

| | Indicator No.1 | Indicator No.2 |
|---------------------------------------|--|---|
| I. Indicator | Outlet Combustion Temperature | Inspection/maintenance (I/M). |
| Measurement approach | Temperature of the TO is monitored on a constant basis using a CEMS in the combustion chamber outlet. | Inspection/maintenance (I/M) |
| II. Indicator Range | The TO will be maintained at a temperature range of 1,450°F – 1,625°F (measured as a 3-hour average). Should the temperature fall below the minimum (3-hour average), this will be logged and reported as required by the TV permit. | Detailed inspection twice a year and daily plant walk-throughs. |
| III. Performance Criteria | | |
| A. Data Representativeness | Temperature is measured at the combustion chamber outlet using a thermocouple. | Maintenance as necessary, corrective action will be documented and completed per permit recommendation. |
| B. Verification of Operational Status | NA | Detailed inspection twice a year and daily plant walk-throughs. |
| C. QA/QC Practices and Criteria | CEMS and associated equipment inspected quarterly, quarterly cylinder gas audits and annual RATA. | NA |
| D. Monitoring Frequency | Constant via CEMS | Qualified personnel perform inspection |
| E. Data Collection Procedures | Records are maintained to document hourly readings and any required maintenance. | Detailed inspection twice a year and daily plant walk-throughs. |
| F. Averaging Period | 3-hour Average (not to go below minimum temperature). | Records are maintained to Document any excursion or equipment needing maintenance. |

Emission Point ID Number: EP-S10B

Associated Equipment

Associated Emission Unit ID Numbers: DR-7103B, DR-7203B, B10B, S10B, ET-5501, TS-2201, TS-25001, TP-5507, TP-5608
 Emissions Control Equipment ID Number: C10B
 Emissions Control Equipment Description: Thermal Oxidizer (135 MMBtu/hr)
 Continuous Emissions Monitors ID Number: CEMS2

| Emission Point Number | Emission Unit Numbers | Emission Unit Description | Raw Material | Rated Capacity |
|------------------------------|------------------------------|----------------------------------|---------------------|-----------------------|
| S10B | DR-7103B | DDGS Dryer C | Natural Gas | 45 MMBtu/hr |
| | DR-7203B | DDGS Dryer D | Natural Gas | 45 MMBtu/hr |
| | B10B | Heat Recovery Boiler | Waste Heat | 135 MMBtu/hr |
| | S10B | Distillation | Ethanol | 65 MMgal/yr |
| | ET-5501 | 190 Condenser | Beer | 85 MMgal/yr |
| | TS-2201 | Slurry Tank #1 | Mash | 16,000 gallons |
| | TS-25001 | Slurry Tank #2 | Mash | 16,000 gallons |
| | TP-5507 | Reflux Tank, Side 2 | Beer | 600 gallons |
| TP-5608 | Regen Tank, Side 2 | Beer | 600 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-623-S3
 567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 6.50 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-623-S3

Pollutant: Particulate Matter (PM)

Emission Limit(s): 6.50 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 06-A-623-S3
 567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 9.89 lb/hr; 500 ppmv

Authority for Requirement: DNR Construction Permit 06-A-623-S3
567 IAC 23.3(3)

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit(s): 15.75 lb/hr; 0.1 lb/MMBtu
Authority for Requirement: DNR Construction Permit 06-A-623-S3

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 5.42 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-623-S3

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 21.0 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-623-S3

Pollutant: Acetaldehyde
Emission Limit(s): 0.15 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-623-S3

Pollutant: Non-acetaldehyde Single HAP
Emission Limit(s): 0.61 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-623-S3

Pollutant: Total HAP
Emission Limit(s): 1.50 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-623-S3

Operating Requirements with Associated Monitoring and Recordkeeping

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

- A. The owner or operator shall follow the applicable standards of Subpart VV, 40 CFR 60.480 through 60.489.
- B. The owner or operator shall keep records as required in 40 CFR 60.486, and reports as required in 40 CFR 60.487.
- C. The owner or operator shall follow the applicable standards of Subpart Db, 40 CFR 60.40b through 60.49b.
- D. The dryers/thermal oxidizer shall combust only natural gas and/or process off-gases.
- E. The owner or operator shall record and maintain records of the amounts of each fuel combusted during each day, and calculate the annual capacity factor on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month, as required in 40 CFR 60.49b(d). The annual capacity factor is defined as the ratio between the actual heat input to a steam generating unit during a calendar year, and the potential heat input had it been operated for 8,760 hours during a calendar year at the maximum steady state design heat input capacity.

- F. The owner or operator shall maintain records of the following information for each steam generating unit operating day, as required in 40 CFR 60.49b(g). This information shall also be submitted in a report, as required in 40 CFR 60.49b(i)
 - a. Calendar date.
 - b. Average hourly nitrogen oxides emission (as NO₂) rates measured or predicted.
 - c. 30-day average nitrogen oxides emission rates calculated at the end of each steam generating unit operating day from the measured hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days.
 - d. Identification of the steam generating unit operating days when the calculated 30-day average nitrogen oxides emission rates are in excess of the emission standard, with the reason for such excess emissions as well as a description of corrective actions taken.
 - e. Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken.
 - f. Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data. (NOTE: when the NO_x CEM is experiencing downtime, the facility is required to estimate emissions based on the 3-hour average emission rate prior to the downtime.)
 - 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 CMS to comply with Performance Specification 2 or 3.
 - j. Results of daily CEMS drift tests and quarterly accuracy assessments as required under 40 CFR Appendix F, Procedure 1.
- G. The thermal oxidizer shall be maintained at a minimum operating temperature of 1,450 degrees F (measured as a three-hour average). The thermal oxidizer shall be operated at all times the dryers or distillation equipment is being used.
- H. The owner or operator shall keep hourly records of the operating temperature of the thermal oxidizer. The owner or operator shall record all three-hour periods (during actual operations) during which the average temperature of the thermal oxidizer is not within the range of 1,450 degrees F to 1,625 degrees F.
- I. The control equipment shall be inspected and maintained according to manufacturer's recommendations.
- J. The owner or operator shall keep records of control equipment inspections and repairs.
- K. Plant-wide, grain usage shall not exceed 46,428,573 bushels per twelve-month rolling period.
- L. Plant-wide record the amount of grain received, and update the amount received per twelve-month rolling period on a monthly basis.

Authority for Requirement: DNR Construction Permit 06-A-623-S3

NSPS Applicability

This emission point is subject to NSPS Subpart A – General Provisions and Subpart Db – Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units, and Subpart VV- Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry.

Authority for Requirement: DNR Construction Permit 06-A-623-S3
40 CFR Part 60 Subpart A
567 IAC 23.1(2)
40 CFR 60 Subpart Db
567 IAC 23.1(2) "ccc"
40 CFR 60 Subpart VV
567 IAC 23.1(2) "nn"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

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

Stack Opening (inches): 66

Exhaust Flow Rate (scfm): 76,700

Exhaust Temperature (°F): 300

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 06-A-623-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.

Continuous Emission Monitoring

The owner or operator shall install, calibrate, maintain and operate a continuous monitoring system, and record the output of the system, for measuring nitrogen oxides (NO_x) emissions discharged to the atmosphere. The CEM shall be operated and data collected as required under 40 CFR 60.48b(c), (d), (e) and (f).

Pollutant - NO_x

Operational Specifications – 40 CFR 60 Appendix B

Date of Initial System Calibration and Quality Assurance – 04/15/2005

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

Reporting & Record keeping – 40 CFR Part 60, Appendix B

Authority for Requirement – 567 IAC 21.10 (9)

Other Parameters

Pollutant – Dilute O₂

Operational Specifications – 40 CFR Part 60, Appendix B

Date of Initial System Calibration and Quality Assurance – 04/15/2005

Ongoing System Calibration/Quality Assurance – Engineering Experience

Reporting & Record keeping – Engineering Experience

Authority for Requirement – 567 IAC 21.10 (9)

Authority for Requirement: DNR Construction Permit 06-A-623-S3

Stack Testing:

Pollutant – VOC ⁽¹⁾

Frequency – Once every 36 months

Test Method - 40 CFR 60, Appendix A, Method 25A

Authority for Requirement - DNR Construction Permit 06-A-623-S3

Pollutant – Hazardous Air Pollutant (HAP) ^{(1) (2)}

Frequency – Once every 36 months

Test Method - 40 CFR 63, Appendix A, Method 320 or
40 CFR 60, Appendix A, Method 18

Authority for Requirement - DNR Construction Permit 06-A-623-S3

⁽¹⁾ Most recent test conducted in June 2022.

⁽²⁾ In addition, acrolein, acetaldehyde, formaldehyde and methanol shall be tested for specifically.

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 21.10(7)

Agency Approved Operation & Maintenance Plan Required?

Yes No

Facility Maintained Operation & Maintenance Plan Required?

Yes No

Compliance Assurance Monitoring (CAM) Plan Required?

Yes No

Authority for Requirement: 567 IAC 24.108(3)

Continuous Assurance Monitoring Plan CAM Plan for EP-S10B Thermal Oxidizer

I. Background

A. Emissions Unit:

Description: Natural Gas Fired Dryers C & D (45 MMBtu/hr each)
Heat Recovery Boiler
Distillation
190 Condenser; Slurry Tank #1; Slurry Tank #2; Reflux Tank, Side 2;
Regen Tank, Side 2
Identification: EU-DR7103B, EU-DR7203B, EU-B10, EU-S10, EU-ET-5501,
EU-TS-2201, EU-TS-25001, EU-TP-5507, EU-TP-5608
Facility: Big River Resources West Burlington LLC
15210 103rd St.,
West Burlington, IA 52655

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation No.: DNR Construction Permit 06-A-623-S3
Limits: VOC limit – 5.42 lb/hr
HAP limit – 1.50 lb/hr total HAP
HAP limit – 0.61 lb/hr; Non-Acetaldehyde Single HAP
Acetaldehyde limits – 0.15 lb/hr
CO limit – 21.00 lb/hr
PM/PM limit – 6.50 lb/hr

Control: CE-C10B, Thermal Oxidizer 135 MMBtu/hr

II. Monitoring Approach

See Table I

MONITORING APPROACH JUSTIFICATION

A. Background

The dryers/thermal oxidizer system (EP-S10B) at the Big River Resources West Burlington, LLC plant is subject to the Compliance Assurance Monitoring (CAM) requirements as listed in 40 CFR Part 64. Dryers C&D (EU-P10B and associated process vents) are controlled by a 135 MMBtu/hr thermal oxidizer (CE-C10B). The thermal oxidizer controls the pollutants that trigger the CAM requirements, including VOC, HAPS, CO, and PM/PM10.

B. Rationale for Selection of Performance Indicators

The rate at which VOC, HAPS, CO, PM/PM10 are controlled is greatly affected by temperature. As such, the monitoring approach relies on the fact that low temperatures indicate potential for insufficient destruction of applicable pollutants as well as the fact that higher temperatures are related to good performance. The proposed minimum outlet

combustion chamber temperature and range are based on compliance testing data and engineering knowledge of the thermal oxidizer being used. The thermal oxidizer will be maintained at a minimum temperature of 1,450°F (measured as a 3-hour average). Should the temperature fall below the minimum (3-hour average), this will be logged and reported in the semi-annual report.

The outlet combustion temperature is monitored on a constant basis using the CEMS system. The temperature is monitored on a constant basis to assure the temperature does not go above or below the set range. A warning message is sent when the temperature falls out of the specified range.

Implementation of a thermal oxidizer inspection and maintenance (I/M) program provides assurance that this equipment is in good repair and is being properly operated. Once per day, a plant walk through is conducted. Any excursions or abnormalities noticed are inspected closer to determine if further maintenance or repair is needed. Proper operation of the thermal oxidizers facilitates proper pollutant reduction.

C. Rationale for Selection of Indicators

The indicator for minimum temperature was selected based on manufacturer's suggested operating temperatures, performance testing, and limits in current IDNR construction permits. Baseline combustion temperature measurements are concurrent with emissions testing. The minimum temperature is listed in the background section above. Operating according to manufacturer specifications and inspections was chosen as an indicator because this can ensure proper operations of the device, especially when combined with the temperature indicator listed above.

Table 1. Monitoring Approach

| | Indicator No.1 | Indicator No.2 |
|---------------------------------------|--|---|
| I. Indicator | Outlet Combustion Temperature | Inspection/maintenance (I/M). |
| Measurement approach | Temperature of the TO is monitored on a constant basis using a CEMS in the combustion chamber outlet. | Inspection/maintenance (I/M) |
| II. Indicator Range | The TO will be maintained at a temperature range of 1,450°F – 1,625°F (measured as a 3-hour average). Should the temperature fall below the minimum (3-hour average), this will be logged and reported as required by the TV permit. | Detailed inspection twice a year and daily plant walk-throughs. |
| III. Performance Criteria | | |
| A. Data Representativeness | Temperature is measured at the combustion chamber outlet using a thermocouple. | Maintenance as necessary, corrective action will be documented and completed per permit recommendation. |
| B. Verification of Operational Status | NA | Detailed inspection twice a year and daily plant walk-throughs. |
| C. QA/QC Practices and Criteria | Associated equipment inspected quarterly, quarterly cylinder gas audits and annual RATA. | NA |
| D. Monitoring Frequency | Constant via CEMS | Qualified personnel perform inspection |
| E. Data Collection Procedures | Records are maintained to document hourly readings and any required maintenance. | Detailed inspection twice a year and daily plant walk-throughs. |
| F. Averaging Period | 3-hour Average (not to go below minimum temperature). | Records are maintained to Document any excursion or equipment needing maintenance. |

Emission Point ID Number: EP-S20

Associated Equipment

Associated Emission Unit ID Numbers: BF176, BF103A, BF103B

Emissions Control Equipment ID Number: C20

Emissions Control Equipment Description: Baghouse

| Emission Point Number | Emission Unit Number | Emission Unit Description | Raw Material | Rated Capacity |
|-----------------------|----------------------|---------------------------|--------------|----------------|
| S20 | BF-176 | Grain Unloading | Shelled Corn | 178.1 tons/hr |
| | BF-103A | Grain Bin | | |
| | BF-103B | Grain 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 03-A-049-S2
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 1.33 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-049-S2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf; 1.33 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-049-S2
567 IAC 23.4(7)

Operational Limits & Requirements

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

Operating Limits

- A. The control equipment shall be inspected and maintained according to manufacturer's recommendations.
- B. The grain bins shall be maintained at negative pressure at all times that the bins are in operation. The baghouse shall be operated when the grain bins are in operation and for at least 30 minutes after loading and unloading of the grain bins.

Reporting and Recordkeeping

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

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

Authority for Requirement: DNR Construction Permit 03-A-049-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 20

Stack Opening (inches): 48

Exhaust Flow Rate (scfm): 45,850

Exhaust Temperature (°F): 84

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 03-A-049-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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-S25

Associated Equipment

Associated Emission Unit ID Numbers: See Table

Emissions Control Equipment ID Number: C25

Emissions Control Equipment Description: Baghouse

| Emission Point Number | Emission Unit Number | Emission Unit Description | Raw Material | Maximum Capacity (bushels/hr) |
|------------------------------|-----------------------------|----------------------------------|---------------------|--------------------------------------|
| S25 | CD-15056 | South pit conveyor | Shelled Corn | 15,000 |
| | CD-15057 | South pit transfer conveyor | | 15,000 |
| | CD-15158 | North pit conveyor | | 15,000 |
| | CD-15157 | Reclaim conveyor | | 15,000 |
| | CD-15159 | Pit transfer conveyor | | 15,000 |
| | CD-15001 | Middle Leg | | 15,000 |
| | CD-15002 | West leg | | 15,000 |
| | CD-15003 | East leg | | 15,000 |
| | CD-15201 | Dryer reclaim conveyor | | 15,000 |
| | CD-15255 | Bin 15256 fin conveyor | | 30,000 |
| | CD-15257 | Reclaim conveyor | | 15,000 |
| | CD-15155 | Bin 15156 fill conveyor | | 30,000 |
| | CD-15159B | Transfer belt conveyor | | 15,000 |
| | CD-15301 | Transfer belt conveyor 1 | | 15,000 |
| | CD-15302 | Transfer belt conveyor 2 | | 15,000 |
| | CD-15303 | Transfer belt conveyor 3 | | 15,000 |
| | CD-15304 | Transfer belt conveyor 4 | | 15,000 |
| | CD-15060 | Outlet diverter | | 15,000 |
| | CD-15062 | Outlet diverter | | 15,000 |
| | CD-15062B | Outlet diverter | | 15,000 |
| CD-15152 | Outlet diverter | 15,000 | | |
| CD-15156 | Outlet diverter | 15,000 | | |

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 0% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 13-A-454-S2
40 CFR Part 60 Subpart DD
567 IAC 23.1(2)"ooo"

⁽¹⁾Per 40 CFR §60.302(b)(2) (NSPS Subpart DD), emissions from the baghouse exhaust shall not cause greater than 0% opacity. Any fugitive emission shall not cause greater than 5% opacity, per the requirements in 40 CFR §60.302(c)(1).

Pollutant: Particulate Matter (PM_{2.5})

Emission Limit(s): 0.98 lb/hr

Authority for Requirement: DNR Construction Permit 13-A-454-S2

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 1.68 lb/hr

Authority for Requirement: DNR Construction Permit 13-A-454-S2

Pollutant: Particulate Matter (PM) - Federal

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: DNR Construction Permit 13-A-454-S2
40 CFR Part 60 Subpart DD
567 IAC 23.1(2)"ooo"

Pollutant: Particulate Matter (PM) - State

Emission Limit(s): 1.68 lb/hr

Authority for Requirement: DNR Construction Permit 13-A-454-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:

- A. Maintain the control equipment according to the manufacturer's specifications.
 - a. The owner or operator shall maintain records showing any maintenance performed on the control equipment.

Authority for Requirement: DNR Construction Permit 13-A-454-S2

NSPS Applicability

These Emission Units are subject to New Source Performance Standards (NSPS) Subpart DD – Standards of Performances for Grain Elevators and NSPS Subpart A – General Provisions.

Authority for Requirement: DNR Construction Permit 13-A-454-S2
40 CFR Part 60 Subpart A
567 IAC 23.1(2)
40 CFR Part 60 Subpart DD
567 IAC 23.1(2)"ooo"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 30.75
Stack Opening (inches): 50
Exhaust Flow Rate (scfm): 49,000
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical, Unobstructed
Authority for Requirement: DNR Construction Permit 13-A-454-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.

Opacity Monitoring

Visible emissions shall be observed on a weekly basis to ensure there are none when the emission unit on this emission point is at or near full capacity. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>0 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from observation of the violation.

If weather conditions prevent the observer from conducting an observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake readings at approximately 2-hour intervals throughout the day. If all observation attempts

for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

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

Authority for Requirement: 567 IAC 24.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-S30

Associated Equipment

Associated Emission Unit ID Numbers: S30
Emissions Control Equipment ID Number: C30
Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: S30
Emission Unit Description: Milling/Hammermill
Raw Material/Fuel: Shelled Corn
Rated Capacity: 100 tons/hr

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40% ⁽¹⁾
Authority for Requirement: DNR Construction Permit 03-A-050-S2
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 0.60 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-050-S2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf; 0.60 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-050-S2
567 IAC 23.4(7)

Operational Limits & Requirements

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

Operating Limits

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

Reporting and Recordkeeping

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

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

Authority for Requirement: DNR Construction Permit 03-A-050-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 20

Stack Opening (inches): 32

Exhaust Flow Rate (scfm): 14,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 03-A-050-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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-S30B

Associated Equipment

Associated Emission Unit ID Numbers: S30B
Emissions Control Equipment ID Number: C30B
Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: S30B
Emission Unit Description: Milling/Hammermill
Raw Material/Fuel: Shelled Corn
Rated Capacity: 100 tons/hr

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40% ⁽¹⁾
Authority for Requirement: DNR Construction Permit 05-A-816-S2
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 0.60 lb/hr
Authority for Requirement: DNR Construction Permit 05-A-816-S2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf; 0.60 lb/hr
Authority for Requirement: DNR Construction Permit 05-A-816-S2
567 IAC 23.4(7)

Operational Limits & Requirements

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

Operating Limits

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

Reporting and Recordkeeping

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

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

Authority for Requirement: DNR Construction Permit 05-A-816-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 20

Stack Opening (inches): 32

Exhaust Flow Rate (scfm): 14,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 05-A-816-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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-S40

Associated Equipment

Associated Emission Unit ID Numbers: TF-3101, TF-3102, TF-3201, TF-3202, TF-3203,
TF-3204, TF-3103, TF-3301
Emissions Control Equipment ID Number: C40
Emissions Control Equipment Description: Scrubber
Continuous Emissions Monitors ID Numbers: NA

| Emission Point Number | Emission Unit Number | Emission Unit Description | Raw Material | Rated Capacity |
|-----------------------|----------------------|---------------------------|--------------|-----------------|
| S40 | TF-3101 | Fermenter 1 | Corn Slurry | 730,000 gallons |
| | TF-3102 | Fermenter 2 | Corn Slurry | 730,000 gallons |
| | TF-3201 | Fermenter 3 | Corn Slurry | 730,000 gallons |
| | TF-3202 | Fermenter 4 | Corn Slurry | 730,000 gallons |
| | TF-3203 | Fermenter 5 | Corn Slurry | 730,000 gallons |
| | TF-3204 | Fermenter 6 | Corn Slurry | 730,000 gallons |
| | TF-3103 | Fermenter 7 | Corn Slurry | 730,000 gallons |
| | TF-3301 | Beerwell | Beer | 985,000 gallons |

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 05-A-817-S6
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.44 lb/hr

Authority for Requirement: DNR Construction Permit 05-A-817-S6

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.44 lb/hr, 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 05-A-817-S6
567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 13.01 lb/hr
Authority for Requirement: DNR Construction Permit 05-A-817-S6

Pollutant: Acetaldehyde (HAP)
Emission Limit(s): 0.66 lb/hr
Authority for Requirement: DNR Construction Permit 05-A-817-S6

Pollutant: Non-Acetaldehyde Single HAP
Emission Limit(s): 0.10 lb/hr
Authority for Requirement: DNR Construction Permit 05-A-817-S6

Pollutant: Total HAP
Emission Limit(s): 0.90 lb/hr
Authority for Requirement: DNR Construction Permit 05-A-817-S6

Operating Requirements with Associated Monitoring and Recordkeeping

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

The operating requirements and associated recordkeeping for this permit shall be:

- A. The owner/operator shall maintain an average pressure drop across the Scrubber that is greater than 1.5 inches water column based on a 24-hour averaging period.
 - i. The owner/operator shall record the scrubber pressure drop, in inches water column, across the scrubber on a continuous basis.
 - ii. The owner/operator shall calculate and record the average pressure drop, in inches water column, across the scrubber on a 24-hour averaging period.
 - a. If the average pressure drop deviates below the minimum required, the owner/operator shall record the time, date, and actions taken to correct the situation. The owner/operator shall also record when the pressure drop across the scrubber has returned to or above the minimum average pressure drop required.
 - iii. The owner/operator shall establish an alarm setting for the purpose of initiating corrective action based on the pressure drop across the scrubber of 1.5 inches water column or less.
 - a. On those days when there is an alarm for the pressure drop reaching 1.5 inches water column or less, the owner/operator shall calculate and record the average pressure drop, in inches water column, across the scrubber based on a 24-hour averaging period.
 - 1. This requirement shall not apply on the days the Scrubber is not in operation or during facility startup, shutdown, or during operation at less than 50% capacity.
 - iv. Due to the scrubber not previously being required to monitor pressure drop, the scrubber is not equipped with this measurement device. Therefore, the owner/operator will review pressure drop data once installed and will modify the pressure drop limit within 180 days.

B. The fermentation process may operate under either the **Scrubber Recycle Operating Scenario** or **Scrubber Non-Recycle Operating Scenario**. The scrubber liquid (water) flow rate and additive rate (for both scenarios) must be set by the rates determined during the most recent stack test demonstrating compliance for each respective operating scenario.

C. The owner or operator shall record when the scrubber is operating in the Scrubber Recycle Operating Scenario or the Scrubber Non-Recycling Operating Scenario.

D. Fermentation Scrubber (C40) liquid (water) flow rate shall be maintained at or above the average rate observed during the most recent performance test for each operating scenario (**Scrubber Recycle Operating Scenario** or **Scrubber Non-Recycle Operating Scenario**) that demonstrated compliance with all applicable emission limits, based on a 3-hour averaging period.

i. The owner or operator shall record the scrubber liquid (water) flow rate on a continuous basis. Calculate and record the average liquid flow rate based on 3-hour average. If the flow rate deviates below the average liquid flow rate observed during the most recent stack test, record the time, date and actions taken to correct the situation and also when the parameter is back above the average flow rate.

E. The additive feed rate (in milliliters per minute) shall be maintained at or above the average rate observed during the most recent performance test for each operating scenario (**Scrubber Recycle Operating Scenario** or **Scrubber Non-Recycle Operating Scenario**) that demonstrated compliance with all applicable emission limits, based on a 3-hour averaging period.

i. The owner or operator shall record the additive feed rate on a continuous basis. Calculate and record the additive feed rate based on 3-hour average. If the flow rate deviates below the average additive feed rate observed during the most recent stack test that demonstrated compliance, record the time, date and actions taken to correct the situation and also when the parameter is back above the average flow rate.

F. Maintain onsite a copy of the most recent performance test detailing scrubber pressure drop, scrubber liquid (water) flow rate, and additive feed rate measured during most recent performance test that demonstrated compliance with limits.

G. Maintain Fermentation Scrubber (C40) according to manufacturer specifications and maintenance schedule.

i. Maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of Fermentation Scrubber (C40).

H. For each month of operation, the facility shall operate the scrubber according to the parameters (scrubber liquid flow rate and additive feed rate) that it established during the seasonal performance testing required 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 |

Authority for Requirement: DNR Construction Permit 05-A-817-S6

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 67.25

Stack Opening (inches): 20

Exhaust Flow Rate (scfm): 5,100

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 05-A-817-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.

Stack Testing:

Pollutant – Volatile Organic Compounds (VOC)

Frequency – Annual ^(2,3,4,5,6)

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

Authority for Requirement - DNR Construction Permit 05-A-817-S6

Pollutant – Total HAP ⁽¹⁾

Frequency – Annual ^(2,3,4,5,6)

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

Authority for Requirement - DNR Construction Permit 05-A-817-S6

⁽¹⁾ In addition, acrolein, acetaldehyde, formaldehyde and methanol shall be tested for specifically.

(2) Initial performance testing shall be conducted for each seasonal scrubber operating scenario (summer and winter) the facility chooses to use to demonstrate compliance with the emissions limits.

(3) After the initial 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 the Operating Limits. 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 liquid (water) flow rate and additive feed rate for each month of operation, as detailed in Operating Limits.

(4) After the initial 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 Limits.

(5) Testing is required to be completed on an annual basis, and shall be conducted during the months of June, July, or August for the summer operating scenario. Tests shall be performed separately for each operating scenario, **Scrubber Recycle Operating Scenario** and **Scrubber Non-Recycle Operating Scenario**.

(6) Testing is required to be completed on a once every 36 months basis, for the winter operating scenario. Tests shall be performed separately for each operating scenario, **Scrubber Recycle Operating Scenario** and **Scrubber Non-Recycle Operating Scenario**.

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)

Continuous Assurance Monitoring Plan CAM Plan for EP-S40 Packed Bed Scrubber

I. Background

A. Emissions Unit:

Description: Fermentation (fermenters 1 – 7 and beer well)

Identification: EU-TF-3101, EU-TF-3102, EU-TF-3201, EU-TF-3202, EU-TF-3203,
EU-TF-3204, EU-TF-3103, EU-TF-3301

Facility: Big River Resources West Burlington LLC
15210 103rd St.
West Burlington, IA 52655

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation No.: DNR Construction Permit 05-A-817-S6

Limits: VOC limit – 13.01 lb/hr
HAP limit – 0.90 lb/hr, total HAP
HAP limit – 0.10 lb/hr, Non-Acetaldehyde Single HAP
Acetaldehyde limit – 0.66 lb/hr

Control: CE-C40, Packed Bed Scrubber

II. Monitoring Approach

See Table I

MONITORING APPROACH JUSTIFICATION

A. Background

The fermentation process (EP ID: S40) at the Big River Resources West Burlington, LLC plant is subject to the Compliance Assurance Monitoring (CAM) requirements as listed in 40 CFR Part 64. The fermentation process is controlled by a packed bed scrubber (C40). The scrubber controls the pollutants that trigger the CAM requirements, or VOC and HAP emissions.

B. Rationale for Selection of Performance Indicators

The rate at which VOC's/HAPS are controlled is greatly affected by water flow rate and the amount of chemical additive injection. As such, the monitoring approach relies on the fact that low water flow and low chemical injection may indicate potential for insufficient destruction of applicable pollutants. The proposed minimum water flow rate and chemical injection rates are based on compliance testing data and engineering knowledge of the scrubber and chemical additives. The water flow rate to the scrubber is maintained at or above the minimum flow rate from the most recent performance testing that

demonstrated compliance. Also, the chemical injection rate is maintained at or above the minimum rate from the most recent performance testing that demonstrated compliance. Should the water flow rate or chemical injection rate fall below these rates, corrective measures are taken, the incident is logged, and the incident is reported as required by the Title V Permit.

Both the water flow rate and chemical injection rate is monitored on a continual basis through the DCS. Historical and real time data can be pulled off the system to ensure average flow rates are being maintained.

An inspection and maintenance (I/M) program provides assurance that this equipment is in good repair and is being properly operated. Inspection and maintenance of the scrubber system and monitoring systems is conducted per the manufacturer's specified recommendations. Daily walkthroughs and detailed semi-annual inspections are performed. Maintenance needs and excursions are documented and performed as needed.

C. Rationale for Selection of Indicators

The indicator for minimum flow rate for both water flow rate and chemical injection rate was selected based on manufacturer's suggested parameters, performance testing, and limits in current IDNR construction permits. Baseline flow rates and measurements are concurrent with emissions testing. Operating according to manufacturer specifications and inspections was chosen as an indicator because this can ensure proper operations of the device, especially when combined with the water flow rate and chemical injection rates as mentioned above.

Table 1. Monitoring Approach

| | Indicator No.1 | Indicator No.2 | Indicator No.3 |
|---------------------------------------|---|--|---|
| I. Indicator | Water Flow Rate | Sodium Bisulfite Injection | Inspection/maintenance (I/M) |
| Measurement approach | DCS monitors constant water flow rate | DCS and Totalizer monitor chemical injection rates | Detailed inspection twice a year and daily plant walk-throughs |
| II. Indicator Range | Water flow rate will be maintained at an average minimum rate from the most recent performance testing that demonstrated compliance. Should indicator fall below the minimum flow rate (average) corrective measures will be made and the incident will be recorded and reported as required by the Title V Permit. | Chemical injection rate will be maintained at a minimum average injection rate from the most recent performance testing that demonstrated compliance. Should indicator fall below the minimum injection rate (average), corrective measures will be made and the incident will be recorded and reported as required by the Title V Permit. | Maintenance as necessary, corrective action will be documented and completed per permit recommendation. |
| III. Performance Criteria | | | |
| A. Data Representativeness | Water flow rate is measured on the DCS | Injection rate is monitored at the DCS and totalizer | Detailed inspection twice a year and daily plant walk-throughs |
| B. Verification of Operational Status | NA | NA | NA |
| C. QA/QC Practices and Criteria | Water flow rate and additive flow rate measured during annual stack testing. | | Qualified personnel perform Inspection. |
| D. Monitoring Frequency | Constant | Constant | Detailed inspection twice a year and daily plant walk-throughs |
| E. Data Collection Procedures | Constant via DCS | Constant via DCS | Records are maintained to Document any excursion or equipment needing maintenance |
| F. Averaging Period | Daily | Daily | NA |

Emission Point ID Number: EP-S40B

Associated Equipment

Associated Emission Unit ID Numbers: TF-3101, TF-3102, TF-3201, TF-3202, TF-3203, TF-3204, TF-3103, TF-3301

Emissions Control Equipment ID Number: C40B

Emissions Control Equipment Description: Scrubber

| Emission Point Number | Emission Unit Number | Emission Unit Description | Raw Material | Rated Capacity |
|------------------------------|-----------------------------|----------------------------------|---------------------|-----------------------|
| S40B | TF-3101 | Fermenter 1 | Corn Slurry | 730,000 gallons |
| | TF-3102 | Fermenter 2 | Corn Slurry | 730,000 gallons |
| | TF-3201 | Fermenter 3 | Corn Slurry | 730,000 gallons |
| | TF-3202 | Fermenter 4 | Corn Slurry | 730,000 gallons |
| | TF-3203 | Fermenter 5 | Corn Slurry | 730,000 gallons |
| | TF-3204 | Fermenter 6 | Corn Slurry | 730,000 gallons |
| | TF-3103 | Fermenter 7 | Corn Slurry | 730,000 gallons |
| | TF-3301 | Beerwell | Beer | 985,000 gallons |

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-624-S5
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.94 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-624-S5

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.94 lb/hr, 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 06-A-624-S5
567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 15.53 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-624-S5

Pollutant: Acetaldehyde (HAP)
Emission Limit(s): 0.96 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-624-S5

Pollutant: Non-Acetaldehyde Single HAP
Emission Limit(s): 0.12 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-624-S5

Pollutant: Total HAP
Emission Limit(s): 1.18 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-624-S5

Operating Requirements with Associated Monitoring and Recordkeeping

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

The operating requirements and associated recordkeeping for this permit shall be:

A. The owner/operator shall maintain an average pressure drop across the Scrubber that is greater than 1.5 inches water column based on a 24-hour averaging period.

i. The owner/operator shall record the scrubber pressure drop, in inches water column, across the scrubber on a continuous basis.

ii. The owner/operator shall calculate and record the average pressure drop, in inches water column, across the scrubber on a 24-hour averaging period.

a. If the average pressure drop deviates below the minimum required, the owner/operator shall record the time, date, and actions taken to correct the situation. The owner/operator shall also record when the pressure drop across the scrubber has returned to or above the minimum average pressure drop required.

iii. The owner/operator shall establish an alarm setting for the purpose of initiating corrective action based on the pressure drop across the scrubber of 1.5 inches water column or less.

a. On those days when there is an alarm for the pressure drop reaching 1.5 inches water column or less, the owner/operator shall calculate and record the average pressure drop, in inches water column, across the scrubber based on a 24-hour averaging period.

1. This requirement shall not apply on the days the Scrubber is not in operation or during facility startup, shutdown, or during operation at less than 50% capacity.

iv. Due to the scrubber not previously being required to monitor pressure drop, the scrubber is not equipped with this measurement device. Therefore, the owner/operator will review pressure drop data once installed and will modify the pressure drop limit within 180 days.

B. The fermentation process may operate under either the **Scrubber Recycle Operating Scenario** or **Scrubber Non-Recycle Operating Scenario**. The scrubber liquid (water) flow rate and additive rate (for both scenarios) must be set by the rates determined during the most recent stack test

demonstrating compliance for each respective operating scenario.

C. The owner or operator shall record when the scrubber is operating in the Scrubber Recycle Operating Scenario or the Scrubber Non-Recycling Operating Scenario.

D. Fermentation Scrubber (C40B) liquid (water) flow rate shall be maintained at or above the average rate observed during the most recent performance test for each operating scenario (**Scrubber Recycle Operating Scenario** or **Scrubber Non-Recycle Operating Scenario**) that demonstrated compliance with all applicable emission limits, based on a 3-hour averaging period.

i. The owner or operator shall record the scrubber liquid (water) flow rate on a continuous basis. Calculate and record the average liquid flow rate based on 3-hour average. If the flow rate deviates below the average liquid flow rate observed during the most recent stack test, record the time, date and actions taken to correct the situation and also when the parameter is back above the average flow rate.

E. The additive feed rate (in milliliters per minute) shall be maintained at or above the average rate observed during the most recent performance test for each operating scenario (**Scrubber Recycle Operating Scenario** or **Scrubber Non-Recycle Operating Scenario**) that demonstrated compliance with all applicable emission limits, based on a 3-hour averaging period.

i. The owner or operator shall record the additive feed rate on a continuous basis. Calculate and record the additive feed rate based on 3-hour average. If the flow rate deviates below the average additive feed rate observed during the most recent stack test that demonstrated compliance, record the time, date and actions taken to correct the situation and also when the parameter is back above the average flow rate.

F. Maintain onsite a copy of the most recent performance test detailing scrubber pressure drop, scrubber liquid (water) flow rate, and additive feed rate measured during most recent performance test that demonstrated compliance with limits.

G. Maintain Fermentation Scrubber (C40B) according to manufacturer specifications and maintenance schedule.

i. Maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of Fermentation Scrubber (C40B).

H. For each month of operation, the facility shall operate the scrubber according to the parameters (scrubber liquid flow rate and additive feed rate) that it established during the seasonal performance testing required 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 |

Authority for Requirement: DNR Construction Permit 06-A-624-S5

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 75
Stack Opening (inches): 20
Exhaust Flow Rate (scfm): 7,400
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical, Unobstructed
Authority for Requirement: DNR Construction Permit 06-A-624-S5

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

Monitoring Requirements

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

Stack Testing:

Pollutant – Volatile Organic Compounds (VOC)
Frequency – Annual ^(2,3,4,5,6)
Test Method – 40 CFR 63, Appendix A, Method 320 or
40 CFR 60, Appendix A, Method 18
Authority for Requirement - DNR Construction Permit 06-A-624-S5

Pollutant – Total HAP ⁽¹⁾
Frequency – Annual ^(2,3,4,5,6)
Test Method – 40 CFR 63, Appendix A, Method 320 or
40 CFR 60, Appendix A, Method 18
Authority for Requirement - DNR Construction Permit 06-A-624-S5

⁽¹⁾ In addition, acrolein, acetaldehyde, formaldehyde and methanol shall be tested for specifically.

⁽²⁾ Initial performance testing shall be conducted for each seasonal scrubber operating scenario (summer and winter) the facility chooses to use to demonstrate compliance with the emissions limits.

⁽³⁾ After the initial 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 Limits. 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 liquid (water) flow rate and additive feed rate for each month of operation, as detailed in Operating Limits.

⁽⁴⁾ After the initial 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 Limits.

⁽⁵⁾ Testing is required to be completed on an annual basis, and shall be conducted during the months of June, July, or August for the summer operating scenario. Tests shall be performed separately for each operating scenario, **Scrubber Recycle Operating Scenario** and **Scrubber Non-Recycle Operating Scenario**.

⁽⁶⁾ Testing is required to be completed on a once every 36 months basis, for the winter operating scenario. Tests shall be performed separately for each operating scenario, **Scrubber Recycle Operating Scenario** and **Scrubber Non-Recycle Operating Scenario**.

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

CAM Plan for EP-S40B Packed Bed Scrubber

I. Background

A. Emissions Unit:

Description: Fermentation (process vessels and beer well)

Identification: EU-TF-3101, EU-TF-3102, EU-TF-3201, EU-TF-3202, EU-TF-3203,
EU-TF-3204, EU-TF3103, EU-TF-3301

Facility: Big River Resources West Burlington LLC
15210 103rd St.
West Burlington, IA 52655

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation No.: DNR Construction Permit 06-A-624-S5

Limits: VOC limit – 15.53 lb/hr
HAP limit – 1.18 lb/hr total HAP
HAP limit – 0.12 lb/hr, Non-Acetaldehyde Single
Acetaldehyde limit – 0.96 lb/hr

Control: CE-C40B, Packed Bed Scrubber

II. Monitoring Approach

See Table I

MONITORING APPROACH JUSTIFICATION

A. Background

The fermentation process (EP-S40B) at the Big River Resources West Burlington, LLC plant is subject to the Compliance Assurance Monitoring (CAM) requirements as listed in 40 CFR Part 64. The fermentation process is controlled by a packed bed scrubber (CE-C40B). The scrubber controls the pollutants that trigger the CAM requirements, or VOC and HAP emissions.

B. Rationale for Selection of Performance Indicators

The rate at which VOC's/HAPS are controlled is greatly affected by water flow rate and the amount of chemical additive injection. As such, the monitoring approach relies on the fact that low water flow and low chemical injection may indicate potential for insufficient destruction of applicable pollutants. The proposed minimum water flow rate and chemical injection rates are based on compliance testing data and engineering knowledge of the scrubber and chemical additives. The water flow rate to the scrubber is maintained at or above the minimum flow rate from the most recent performance testing that demonstrated compliance. Also, the chemical injection rate is maintained at or above the minimum injection rate from the most recent

performance testing that demonstrated compliance. Should the water flow rate or chemical injection rate fall below these rates, corrective measures are taken, the incident is logged, and the incident is reported as required by the Title V Permit.

Both the water flow rate and chemical injection rate is monitored on a continual basis through the DCS. Historical and real time data can be pulled off the system to ensure average flow rates are being maintained.

An inspection and maintenance (I/M) program provides assurance that this equipment is in good repair and is being properly operated. Inspection and maintenance of the scrubber system and monitoring systems is conducted per the manufacturer's specified recommendations. Daily walkthroughs and detailed semi-annual inspections are performed. Maintenance needs and excursions are documented and performed as needed.

C. Rationale for Selection of Indicators

The indicator for minimum flow rate for both water flow rate and chemical injection rate was selected based on manufacturer's suggested parameters, performance testing, and limits in current IDNR construction permits. Baseline flow rates and measurements are concurrent with emissions testing.

Operating according to manufacturer specifications and inspections was chosen as an indicator because this can ensure proper operations of the device, especially when combined with the water flow rate and chemical injection rates as mentioned above.

Table 1. Monitoring Approach

| | Indicator No.1 | Indicator No.2 | Indicator No.3 |
|---------------------------------------|--|---|---|
| I. Indicator | Water Flow Rate | Sodium Bisulfite Injection | Inspection/maintenance (I/M) |
| Measurement approach | DCS monitors constant water flow rate | DCS and Totalizer monitor chemical injection rates | Detailed inspection twice a year and daily plant walk-throughs |
| II. Indicator Range | Water flow rate will be maintained at an average minimum rate from the most recent performance testing that demonstrated compliance. Should indicator fall below the minimum flow rate (average), corrective measures will be made and the incident will be recorded and reported as required by the Title V Permit. | Chemical injection rate will be maintained at a minimum average rate from the most recent performance testing that demonstrated compliance. Should indicator fall below the minimum injection rate (average) corrective measures will be made and the incident will be recorded and reported as required by the Title V Permit. | Maintenance as necessary, corrective action will be documented and completed per permit recommendation. |
| III. Performance Criteria | | | |
| A. Data Representativeness | Water flow rate is measured on the DCS | Injection rate is monitored at the DCS and totalizer | Detailed inspection twice a year and daily plant walk-throughs |
| B. Verification of Operational Status | NA | NA | NA |
| C. QA/QC Practices and Criteria | Water flow rate and additive flow rate measured during annual stack testing. | | Qualified personnel perform Inspection. |
| D. Monitoring Frequency | Constant | Constant | Detailed inspection twice a year and daily plant walk-throughs |
| E. Data Collection Procedures | Constant via DCS | Constant via DCS | Records are maintained to Document any excursion or equipment needing maintenance |
| F. Averaging Period | Daily | Daily | NA |

Emission Point ID Number: EP-S50

Associated Equipment

Associated Emission Unit ID Numbers: S50

Emissions Control Equipment ID Number: C50

Emissions Control Equipment Description: Flare with Vapor Recovery System (6.4 MMBtu/hr)

Emission Unit vented through this Emission Point: S50

Emission Unit Description: Truck Product Loadout

Raw Material/Fuel: Ethanol

Rated Capacity: 600 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(s): 40%

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

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

Pollutant: Sulfur Dioxides (SO₂)

Emission Limit(s): 500 ppmv

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

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 1.13 ton/yr

Authority for Requirement: DNR Construction Permit 03-A-055-S4

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 0.83 ton/yr

Authority for Requirement: DNR Construction Permit 03-A-055-S4

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 5.96 ton/yr

Authority for Requirement: DNR Construction Permit 03-A-055-S4

Operating Requirements with Associated Monitoring and Recordkeeping

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

- A. The owner or operator shall follow the applicable standards of Subpart VV, 40 CFR 60.480 through 60.489.
- B. The owner or operator shall keep records as required in 40 CFR 60.486, and reports as required in 40 CFR 60.487.
- C. The control equipment shall be used whenever product is loaded through the truck loadout.
- D. The flare shall be limited to operating 5000 hours per twelve-month rolling period. (Note: the pilot light may operate 8760 hours per year).
- E. The owner or operator shall keep records of the number of hours the flare is operated, and update the twelve-month rolling total on a monthly basis.
- F. The control equipment shall be inspected and maintained according to manufacturer's recommendations.
- G. The owner or operator shall keep records of control equipment inspections and repairs.
- H. Plant-wide the total amount of denatured ethanol loaded out by truck or rail shall not exceed 130,000,000 gallons per twelve-month rolling period.
- I. The owner or operator shall keep records of the amount of product loaded out plant-wide, and update the twelve-month rolling total on a monthly basis.
- J. Plant-wide, the owner or operator is limited to blending a maximum of 6.5 million gallons of denaturant (gasoline) with ethanol per twelve-month rolling period.
- K. The owner or operator shall keep records of the amount of denaturant used plant-wide, and update the twelve-month rolling total on a monthly basis.

Authority for Requirement: DNR Construction Permit 03-A-055-S4
40 CFR 60 Subpart VV
567 IAC 23.1(2)"nn"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 20
Stack Opening (inches): 30
Exhaust Flow Rate (scfm): 6,400
Exhaust Temperature (°F): 1800
Discharge Style: Vertical, Unobstructed
Authority for Requirement: DNR Construction Permit 03-A-055-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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-S50B

Associated Equipment

Associated Emission Unit ID Numbers: S50B

Emissions Control Equipment ID Number: C50B

Emissions Control Equipment Description: Flare with Vapor Recovery System (13.0 MMBtu/hr)

Emission Unit vented through this Emission Point: S50B

Emission Unit Description: Rail and Truck Product Loadout

Raw Material/Fuel: Ethanol

Rated Capacity: 2,600 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(s): 40%

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

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

Pollutant: Sulfur Dioxides (SO₂)

Emission Limit(s): 500 ppmv

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

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 2.25 ton/yr

Authority for Requirement: DNR Construction Permit 06-A-631-S1

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 1.69 ton/yr

Authority for Requirement: DNR Construction Permit 06-A-631-S1

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 12.06 ton/yr

Authority for Requirement: DNR Construction Permit 06-A-631-S1

Operating Requirements with Associated Monitoring and Recordkeeping

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

- A. The owner or operator shall follow the applicable standards of Subpart VV, 40 CFR 60.480 through 60.489.
- B. The owner or operator shall keep records as required in 40 CFR 60.486, and reports as required in 40 CFR 60.487.
- C. The control equipment shall be used whenever product is loaded through the rail or truck loadout.
- D. The flare shall be limited to operating 5000 hours per twelve-month rolling period. (Note: the pilot light may operate 8760 hours per year).
- E. The owner or operator shall keep records of the number of hours the flare is operated, and update the twelve-month rolling total on a monthly basis.
- F. The control equipment shall be inspected and maintained according to manufacturer's recommendations.
- G. The owner or operator shall keep records of control equipment inspections and repairs.
- H. Plant-wide the total amount of denatured ethanol loaded out by truck or rail shall not exceed 130,000,000 gallons per twelve-month rolling period.
- I. The owner or operator shall keep records of the amount of product loaded out plant-wide, and update the twelve-month rolling total on a monthly basis.
- J. Plant-wide, the owner or operator is limited to blending a maximum of 6.5 million gallons of denaturant (gasoline) with ethanol per twelve-month rolling period.
- K. The owner or operator shall keep records of the amount of denaturant used plant-wide, and update the twelve-month rolling total on a monthly basis.

Authority for Requirement: DNR Construction Permit 06-A-631-S1
40 CFR 60 Subpart VV
567 IAC 23.1(2)"nn"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 30
Stack Opening (inches): 72
Exhaust Flow Rate (scfm): 8,170
Exhaust Temperature (°F): 1,800
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 06-A-631-S1

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-S70

Associated Equipment

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

Emission Unit vented through this Emission Point: P70
Emission Unit Description: DDGS Cooler Cyclone
Raw Material/Fuel: DDGS
Rated Capacity: 20 tons/hr

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40% ⁽¹⁾
Authority for Requirement: DNR Construction Permit 03-A-052-S5
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 1.71 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-052-S5

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf; 1.71 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-052-S5
567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 3.00 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-052-S5

Pollutant: Acetaldehyde (HAP)
Emission Limit(s): 0.07 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-052-S5

Pollutant: Non-Acetaldehyde Single HAP
Emission Limit(s): 0.10 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-052-S5

Pollutant: Total HAP
Emission Limit(s): 0.14 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-052-S5

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 baghouse shall be operated and maintained per the manufacturer's instructions and specifications.
 - a. The owner or operator shall keep records of control equipment inspections and repairs.

Authority for Requirement: DNR Construction Permit 03-A-052-S5

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 135.7
Stack Opening (inches): 36
Exhaust Flow Rate (scfm): 35,000
Exhaust Temperature (°F): 85
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 03-A-052-S5

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-S70B

Associated Equipment

Associated Emission Unit ID Numbers: S70B
Emissions Control Equipment ID Number: C70B
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: NA

Emission Unit vented through this Emission Point: S70B
Emission Unit Description: DDGS Cooler
Raw Material/Fuel: DDGS
Rated Capacity: 19 tons/hr

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40% ⁽¹⁾
Authority for Requirement: DNR Construction Permit 06-A-625-S2
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 1.24 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-625-S2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf; 1.24 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-625-S2
567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 3.25 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-625-S2

Pollutant: Acetaldehyde (HAP)
Emission Limit(s): 0.08 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-625-S2

Pollutant: Non-Acetaldehyde Single HAP
Emission Limit(s): 0.08 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-625-S2

Pollutant: Total HAP
Emission Limit(s): 0.15 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-625-S2

Operational Limits & Requirements

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

Operating Limits

- A. The baghouse shall be operated and maintained per the manufacturer’s instructions and specifications.

Reporting and Recordkeeping

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

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

Authority for Requirement: DNR Construction Permit 06-A-625-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 40
Stack Opening (inches): 38
Exhaust Flow Rate (scfm): 29,000
Exhaust Temperature (°F): 85
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 06-A-625-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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: Cooling Towers (EP-S80, EP-S80B)

Associated Equipment

| Emission Point Number | Emission Unit | Emission Unit Description | Raw Material | Rated Capacity (gal/hr) | Construction Permit |
|-----------------------|---------------|---------------------------|--------------|-------------------------|---------------------|
| S80 | S80 | Cooling Tower | NA | 1,200,000 | 05-A-368-S2 |
| S80B | S80B | | | 1,200,000 | 06-A-626 |

Applicable Requirements

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

The emissions from each emission point listed in the table above shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permits 05-A-368-S2, 06-A-626
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 1.50 lb/hr

Authority for Requirement: DNR Construction Permits 05-A-368-S2, 06-A-626

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf; 1.50 lb/hr

Authority for Requirement: DNR Construction Permits 05-A-368-S2, 06-A-626
567 IAC 23.3(2)"a"

Operational Limits & Requirements

The owner/operator of each equipment listed in the table above shall comply with the operational limits and requirements listed below.

Operating Limits

- A. The circulating water in the cooling tower shall not exceed 3,000 parts per million (ppm) total dissolved solids (TDS). Monitoring of the TDS shall be conducted on a monthly schedule.
- B. The cooling tower shall be operated and maintained per the manufacturer's specifications and instructions.

Reporting and Recordkeeping

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

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

Authority for Requirement: DNR Construction Permits 05-A-368-S2, 06-A-626

Emission Point Characteristics

Each emission point listed in the table above shall conform to the specifications listed below.

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

Stack Opening (inches): 216

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

Exhaust Temperature (°F): 85

Discharge Style: Vertical

Authority for Requirement: DNR Construction Permits 05-A-368-S2, 06-A-626

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-S90

Associated Equipment

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

Emission Unit vented through this Emission Point: P90
Emission Unit Description: DDGS Loadout
Raw Material/Fuel: DDGS
Rated Capacity: 225 ton/hr

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 03-A-053-S3
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.21 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-053-S3

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf; 0.21 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-053-S3
567 IAC 23.4(7)

Pollutant: Acetaldehyde

Emission Limit(s): 0.02 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-053-S3

Pollutant: Non-Acetaldehyde Single HAP

Emission Limit(s): 0.03 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-053-S3

Pollutant: Total HAP

Emission Limit(s): 0.06 lb/hr

Authority for Requirement: DNR Construction Permit 03-A-053-S3

Operational Limits & Requirements

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 baghouse shall be operated and maintained per the manufacturer’s instructions and specifications.
- B. The owner or operator shall keep records of control equipment inspections and repairs.
- C. Plant-wide, DDGS Production shall not exceed 379,590 tons per rolling twelve (12)- month rolling period.
- D. The owner or operator shall keep records of DDGS production on a monthly basis. Record and calculate the rolling 12-month totals.

Authority for Requirement: DNR Construction Permit 03-A-053-S3

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 20

Stack Opening (inches): 22

Exhaust Flow Rate (scfm): 2,800

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 03-A-053-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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-S90B

Associated Equipment

Associated Emission Unit ID Numbers: P90B
Emissions Control Equipment ID Number: C90B
Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: P90B
Emission Unit Description: DDGS Loading Baghouse
Raw Material/Fuel: DDGS
Rated Capacity: 350 ton/hr

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-627-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).

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.17 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-627-S1

Pollutant: Particulate Matter (PM)

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

Authority for Requirement: DNR Construction Permit 06-A-627-S1
567 IAC 23.4(7)

Pollutant: Acetaldehyde

Emission Limit(s): 0.02 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-627-S1

Pollutant: Non-Acetaldehyde Single HAP

Emission Limit(s): 0.03 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-627-S1

Pollutant: Total HAP
Emission Limit(s): 0.06 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-627-S1

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 baghouse shall be operated and maintained per the manufacturer’s instructions and specifications.
 - a. The owner or operator shall keep records of control equipment inspections and repairs.
- B. Plant-wide, DDGS Production shall not exceed 379,590 tons per twelve (12) month rolling period.
 - a. The owner or operator shall keep records of DDGS production on a monthly basis. Record and calculate the rolling 12-month totals.

Authority for Requirement: DNR Construction Permit 06-A-627-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 30.75
Stack Opening (inches): 16
Exhaust Flow Rate (scfm): 5,000
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 06-A-627-S1

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-S101

Associated Equipment

Associated Emission Unit ID Numbers: S101
Emissions Control Equipment ID Number: C101
Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: S101
Emission Unit Description: Storage Bin
Raw Material/Fuel: Corn
Rated Capacity: 425,000 bushels

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40% ⁽¹⁾
Authority for Requirement: DNR Construction Permit 06-A-111-S1
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 0.34 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-111-S1

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf; 0.34 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-111-S1
567 IAC 23.4(7)

Operational Limits & Requirements

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

Operating Limits

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

B. The grain bin shall be maintained at negative pressure at all times that the bins are in operation. The baghouse shall be operated when the grain bins are in operation and for at least 30 minutes after loading and unloading of the grain bin.

Reporting and Recordkeeping

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

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

Authority for Requirement: DNR Construction Permit 06-A-111-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 120

Stack Opening (inches): 12×12

Exhaust Flow Rate (scfm): 2,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 06-A-111-S1

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-S105

Associated Equipment

Associated Emission Unit ID Numbers: S105
Emissions Control Equipment ID Number: C105
Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: S105
Emission Unit Description: Storage Bin
Raw Material/Fuel: Corn
Rated Capacity: 425,000 bushels

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40% ⁽¹⁾
Authority for Requirement: DNR Construction Permit 06-A-112-S1
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 0.34 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-112-S1

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf; 0.34 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-112-S1
567 IAC 23.4(7)

Operational Limits & Requirements

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

Operating Limits

- A. The control equipment shall be inspected and maintained according to manufacturer's recommendations.
- B. The grain bin shall be maintained at negative pressure at all times that the bins are in operation. The baghouse shall be operated when the grain bins are in operation and for at least 30 minutes after loading and unloading of the grain bin.

Reporting and Recordkeeping

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

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

Authority for Requirement: DNR Construction Permit 06-A-112-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 120

Stack Opening (inches): 12x12

Exhaust Flow Rate (scfm): 2,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 06-A-112-S1

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-S201

Associated Equipment

Associated Emission Unit ID Numbers: P201
Emissions Control Equipment ID Number: C201
Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: P201
Emission Unit Description: Storage Bin
Raw Material/Fuel: Corn
Rated Capacity: 1,340,000 bushels

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40% ⁽¹⁾
Authority for Requirement: DNR Construction Permit 13-A-455-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).

Pollutant: Particulate Matter (PM_{2.5})
Emission Limit(s): 0.033 lb/hr
Authority for Requirement: DNR Construction Permit 13-A-455-S1

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 0.10 lb/hr
Authority for Requirement: DNR Construction Permit 13-A-455-S1

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 13-A-455-S1
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:

- A. The baghouse shall be operated and maintained per the manufacturer’s instructions and specifications.
 - a. The owner or operator shall keep records of control equipment inspections and repairs.

Authority for Requirement: DNR Construction Permit 13-A-455-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 119.2

Stack Opening (inches): 30

Exhaust Flow Rate (scfm): 3,000

Exhaust Temperature (°F): 68

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 13-A-455-S1

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-S203

Associated Equipment

Associated Emission Unit ID Numbers: P203
Emissions Control Equipment ID Number: C203
Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: P203
Emission Unit Description: Storage Bin
Raw Material/Fuel: Corn
Rated Capacity: 185,000 bushels

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40% ⁽¹⁾
Authority for Requirement: DNR Construction Permit 13-A-456-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).

Pollutant: Particulate Matter (PM_{2.5})
Emission Limit(s): 0.033 lb/hr
Authority for Requirement: DNR Construction Permit 13-A-456-S1

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 0.10 lb/hr
Authority for Requirement: DNR Construction Permit 13-A-456-S1

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 13-A-456-S1
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:

- A. The baghouse shall be operated and maintained per the manufacturer’s instructions and specifications.
 - a. The owner or operator shall keep records of control equipment inspections and repairs.

Authority for Requirement: DNR Construction Permit 13-A-456-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 96.2
Stack Opening (inches): 30
Exhaust Flow Rate (scfm): 3,000
Exhaust Temperature (°F): 68
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 13-A-456-S1

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-S205

Associated Equipment

Associated Emission Unit ID Numbers: S205
Emissions Control Equipment ID Number: C205
Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: S205
Emission Unit Description: Storage Bin
Raw Material/Fuel: Corn
Rated Capacity: 1,400,000 bushels

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40% ⁽¹⁾
Authority for Requirement: DNR Construction Permit 15-A-167-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).

Pollutant: Particulate Matter (PM_{2.5})
Emission Limit(s): 0.033 lb/hr
Authority for Requirement: DNR Construction Permit 15-A-167-S1

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 0.10 lb/hr
Authority for Requirement: DNR Construction Permit 15-A-167-S1

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 15-A-167-S1
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:

- A. The baghouse shall be operated and maintained per the manufacturer’s instructions and specifications.
 - i. The owner or operator shall keep records of control equipment inspections and repairs.

Authority for Requirement: DNR Construction Permit 15-A-167-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 119.2
 Stack Opening (inches): 30
 Exhaust Flow Rate (scfm): 3,000
 Exhaust Temperature (°F): 68
 Discharge Style: Vertical Unobstructed
 Authority for Requirement: DNR Construction Permit 15-A-167-S1

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

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

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

for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: Storage Tanks (EP-T61, EP-T62)

Associated Equipment

Associated Emission Unit ID Numbers: T61, T62

Emissions Control Equipment ID Number: C61, C62

Emissions Control Equipment Description: Internal Floating Roof

| Emission Point Number | Emission Unit | Emission Unit Description | Raw Material | Rated Capacity (gallons) | Construction Permit Number |
|------------------------------|----------------------|----------------------------------|---------------------------------------|---------------------------------|-----------------------------------|
| T61 | T61 | Storage Tank | Denatured and/or Un-Denatured Ethanol | 750,000 | 03-A-056-S2 |
| T62 | T62 | Storage Tank | Denatured and/or Un-Denatured Ethanol | 750,000 | 03-A-057-S2 |

Applicable Requirements

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

No emission limits required at this time.

Operational Limits & Requirements

The owner/operator of each equipment listed in the table above shall comply with the operational limits and requirements listed below.

Operating Limits

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

Reporting and Recordkeeping

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

- A. The owner or operator keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel for the lifetime of the source.
- B. The owner or operator shall keep records as required in 40 CFR §60.115b (a) and 40 CFR §60.116b.

Authority for Requirement: DNR Construction Permits 03-A-056-S2, 03-A-057-S2
40 CRF 60 Subpart Kb
567 IAC 23.1(2) "ddd"

NSPS Applicability

These emission points are subject to NSPS Subpart A – General Provisions and Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984.

Authority for Requirement: DNR Construction Permits 03-A-056-S2, 03-A-057-S2
40 CFR Part 60 Subpart A
567 IAC 23.1(2)
40 CRF 60 Subpart Kb
567 IAC 23.1(2) "ddd"

Emission Point Characteristics

Each emission point listed in the table above shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 51
Stack Opening (inches): 4 total for each tank, 4x5 each
Exhaust Flow Rate (scfm): Standing and Breathing Losses
Exhaust Temperature (°F): Ambient
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permits 03-A-056-S2, 03-A-057-S2

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: Storage Tanks (EP-T63, EP-T64, EP-T65)

Associated Equipment

Associated Emission Unit ID Numbers: T63, T64, T65
Emissions Control Equipment ID Number: C63, C64, C65
Emissions Control Equipment Description: Internal Floating Roof

| Emission Point Number | Emission Unit | Emission Unit Description | Raw Material | Rated Capacity (gallons) | Construction Permit Number |
|------------------------------|----------------------|----------------------------------|--|---------------------------------|-----------------------------------|
| T63 | T63 | Storage Tank | E85, Denaturant, 200 Proof Ethanol, or 190 Ethanol | 100,000 | 03-A-058-S1 |
| T64 | T64 | Storage Tank | Denaturant | 100,000 | 03-A-059-S1 |
| T65 | T65 | Storage Tank | 190 Proof Ethanol | 100,000 | 03-A-060-S1 |

Applicable Requirements

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

No emission limits required at this time.

Operational Limits & Requirements

The owner/operator of each equipment listed in the table above shall comply with the operational limits and requirements listed below.

Operating Limits

- A. EP-T63 shall only store E85, denaturant, 200 Proof Ethanol or 190 Proof Ethanol.
- B. EP-T64 shall only store denaturant.
- C. EP-T65 shall only store 190 Proof ethanol.
- D. The owner or operator shall follow the applicable standards of Subpart Kb, 40 CFR §60.112b (a) (1), and inspect as required in 40 CFR §60.113b (a).

Reporting and Recordkeeping

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

- A. The owner or operator keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel for the lifetime of the source.
- B. The owner or operator shall keep records as required in 40 CFR §60.115b (a) and 40 CFR §60.116b.

Authority for Requirement: DNR Construction Permits 03-A-058-S1, 03-A-059-S1, 03-A-060-S1
40 CFR Part 60 Subpart Kb
567 IAC 23.1(2) "ddd"

NSPS Applicability

These emission points are subject to NSPS Subpart A – General Provisions and Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984.

Authority for Requirement: DNR Construction Permits 03-A-058-S1, 03-A-059-S1, 03-A-060-S1
40 CFR Part 60 Subpart A
567 IAC 23.1(2)
40 CFR Part 60 Subpart Kb
567 IAC 23.1(2) "ddd"

Emission Point Characteristics

Each emission point listed in the table above shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 29

Stack Opening (inches): 4 total for each tank, 4×5 each

Exhaust Flow Rate (scfm): NA-Vent

Exhaust Temperature (°F): Ambient

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permits 03-A-058-S1, 03-A-059-S1, 03-A-060-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that 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: Storage Tanks (EP-T66, EP-T67)

Associated Equipment

Associated Emission Unit ID Numbers: T66, T67

Emissions Control Equipment ID Number: C66, C67

Emissions Control Equipment Description: Internal Floating Roof

| Emission Point Number | Emission Unit | Emission Unit Description | Raw Material | Rated Capacity (gallons) | Construction Permit Number |
|-----------------------|---------------|---------------------------|---------------------------------------|--------------------------|----------------------------|
| T66 | T66 | Storage Tank | Denatured and/or Un-Denatured Ethanol | 750,000 | 06-A-628-S1 |
| T67 | T67 | Storage Tank | Denatured and/or Un-Denatured Ethanol | 750,000 | 06-A-629-S1 |

Applicable Requirements

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

No emission limits required at this time.

Operational Limits & Requirements

The owner/operator of each equipment listed in the table above shall comply with the operational limits and requirements listed below.

Operating Limits

- A. These tanks shall only store denatured or un-denatured ethanol.
- B. The owner or operator shall follow the applicable standards of Subpart Kb, 40 CFR §60.112b (a) (1), and inspect as required in 40 CFR §60.113b (a).

Reporting and Recordkeeping

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

- A. The owner or operator keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel for the lifetime of the source.
- B. The owner or operator shall keep records as required in 40 CFR §60.115 b (a) and 40 CFR §60.116b.

Authority for Requirement: DNR Construction Permit 06-A-628-S1, 06-A-629-S1
40 CFR Part 60 Subpart Kb
567 IAC 23.1(2) "ddd"

NSPS Applicability

These emission points are subject to NSPS Subpart A – General Provisions and Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984.

Authority for Requirement: DNR Construction Permits 06-A-628-S1, 06-A-629-S1
40 CFR Part 60 Subpart A
567 IAC 23.1(2)
40 CFR Part 60 Subpart Kb
567 IAC 23.1(2) "ddd"

Emission Point Characteristics

Each emission point listed in the table above shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 51
Stack Opening (inches): 4 total for each tank, 4×5 each
Exhaust Flow Rate (scfm): Standing and Breathing Losses
Exhaust Temperature (°F): Ambient
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 06-A-628-S1, 06-A-629-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that 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-T68

Associated Equipment

Associated Emission Unit ID Numbers: T68

Emissions Control Equipment ID Number: C68

Emissions Control Equipment Description: Internal Floating Roof

Emission Unit vented through this Emission Point: T68

Emission Unit Description: Ethanol Storage Tank

Raw Material/Fuel: 200 Proof Ethanol

Rated Capacity: 200,000 gallons

Applicable Requirements

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

No emission limits required at this time.

Operational Limits & Requirements

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

Operating Limits

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

Reporting and Recordkeeping

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

- A. The owner or operator keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel for the lifetime of the source.
- B. The owner or operator shall keep records as required in 40 CFR §60.115b (a) and 40 CFR §60.116b.

Authority for Requirement: DNR Construction Permit 06-A-630
40 CFR Part 60 Subpart Kb
567 IAC 23.1(2) "ddd"

NSPS Applicability

This emission point is subject to NSPS Subpart A – General Provisions and Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984.

Authority for Requirement: DNR Construction Permit 06-A-630
40 CFR Part 60 Subpart A
567 IAC 23.1(2)
40 CFR Part 60 Subpart Kb
567 IAC 23.1(2) "ddd"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 29
Stack Opening (inches): 4 total, 4x5 each
Exhaust Flow Rate (scfm): NA-Vent
Exhaust Temperature (°F): Ambient
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 06-A-630

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-GRNDRY1

Associated Equipment

Associated Emission Unit ID Number: GRNDRY1

Emission Unit vented through this Emission Point: GRNDRY1
Emission Unit Description: Grain Dryer
Raw Material/Fuel: Corn, Natural Gas
Rated Capacity: 186.67 tons/hr, 62.1 MMBtu/hr

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 13-A-453
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM_{2.5})

Emission Limit(s): 2.76 lb/hr

Authority for Requirement: DNR Construction Permit 13-A-453

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 14.47 lb/hr

Authority for Requirement: DNR Construction Permit 13-A-453

Pollutant: Particulate Matter (PM)

Emission Limit(s): 56 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 13-A-453
567 IAC 23.4(7)

Operational Limits & Requirements

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

Operating Limits

- A. This unit shall combust natural gas only.
- B. This unit shall operate at a maximum of 1,500 hours per 12-month rolling period.

- C. The amount of grain this unit processes shall not exceed 10,000,000 bushels per 12-month rolling period.
- D. The column plate perforations on this unit shall not exceed 0.094 inch.

Reporting and Recordkeeping

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

- A. Maintain records showing the type of fuel used in this unit.
- B. Record the number of hours this unit is operated. Calculate and record the monthly and 12-month rolling totals.
- C. Record the amount of grain this unit processes, in tons. Calculate and record the monthly and 12-month rolling totals.
- D. Maintain a record showing the screen perforations

Authority for Requirement: DNR Construction Permit 13-A-453

NSPS Applicability

This emission point is subject to NSPS Subpart A – General Provisions and Subpart DD, Standards of Performance for Grain Elevators.

Authority for Requirement: DNR Construction Permit 13-A-453
40 CFR Part 60 Subpart A
567 IAC 23.1(2)
40 CFR Part 60 Subpart DD
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): NA

Stack Opening (inches): NA

Exhaust Flow Rate (scfm): 500,000

Exhaust Temperature (°F): 68

Discharge Style: NA

Authority for Requirement: DNR Construction Permit 13-A-453

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-FWP

Associated Equipment

Associated Emission Unit ID Numbers: FWP

Emission Unit vented through this Emission Point: FWP
Emission Unit Description: Emergency Fire Water Pump
Raw Material/Fuel: Diesel
Rated Capacity: 311 BHP

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40% ⁽¹⁾
Authority for Requirement: 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: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO₂)
Emission Limit(s): 2.5 lbs/MMBtu
Authority for Requirement: 567 IAC 23.3(3)

Pollutant: Non-Methane Hydrocarbons and Nitrogen Oxides (NMHC + NO_x)
Emission Limit(s): 3.0 grams/kW-hr (grams/HP-hr)
Authority for Requirement: 40 CFR 60.4205

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 fuel shall be limited to #1 or #2 diesel only with a sulfur content not to exceed 0.0015% by weight.
 - i. The owner or operator shall maintain records as to the type of fuel oil used.
- B. The fire water pump shall not operate more than 100 hours per twelve-month rolling period.
 - i. The owner or operator shall record the number of hours the fire pump operated per month. Record and calculate the rolling 12-month totals.

Authority for Requirement:

NESHAP Applicability

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

According to 40 CFR 63.6590(c)(6), this emergency engine must meet the requirements of subpart ZZZZ by meeting the requirements of 40 CFR 60 Subpart IIII for compression ignition engines. No further requirements apply for this emergency engine under subpart ZZZZ.

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

NSPS Applicability

The emergency engine is subject to 40 CFR 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines. According to 40 CFR 60.4205(c) and Table 4 to Subpart IIII, you must comply with the following emission standards in grams/kW-hr (grams/HP-hr):

| Maximum Engine Power | Model Year(s) | NMHC + NOx | CO | PM |
|------------------------------------|---------------|------------|-----------|-------------|
| 130 ≤ kW ≤ 560 (175 ≤ HP ≤ 750) | 2009+ | 4.0 (3.0) | 3.5 (2.6) | 0.20 (0.15) |

Fuel Requirements:

You must use diesel fuel that has a maximum sulfur content of 15 ppm (0.0015%) by weight and a minimum cetane index of 40 or a maximum aromatic content of 35 percent by volume. 40 CFR 60.4207 and 40 CFR 1090.305.

Compliance Requirements:

1. You must operate and maintain the engine to comply with the required emission standards over the entire life of the engine (40 CFR 60.4206) by doing all of the following (40 CFR 60.4211(a)).
 - a) Operating and maintaining the engine and control device according to the manufacturer's emission-related written instructions;
 - b) Changing only those emission-related settings that are permitted by the manufacturer; and
 - c) Meeting the requirements of 40 CFR 89, 94 and/or 1068, as they apply to you.

2. You must demonstrate compliance with the applicable emission standards by purchasing an engine certified to the applicable emission standards. The engine must be installed and configured according to the manufacturer's emission-related specifications. 40 CFR 60.4211(c).

3. If you do not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, you must keep a maintenance plan and records of conducted maintenance to demonstrate compliance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct the following performance testing in accordance with 40 CFR 60.4212 to demonstrate compliance with applicable emission standards. You are required to notify the DNR 30 days prior to the test date and are required to submit a stack test report to the DNR within 60 days after the completion of the testing. See 40 CFR 60.4211(g) for additional information.

| Maximum Engine Power | Initial Test | Subsequent Test |
|----------------------|---|---|
| HP < 100 | Within 1 year of non-permitted action ⁽¹⁾ | Not required |
| 100 ≤ HP ≤ 500 | Within 1 year of engine startup, or non-permitted action ⁽¹⁾ | Not required |
| 500 < HP | Within 1 year of engine startup, or non-permitted action ⁽¹⁾ | Every 8,760 hours or 3 years, whichever comes first |

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

Operating and Recordkeeping Requirements

1. If your emergency engine does not meet the standards applicable to non-emergency engines, you must install a non-resettable hour meter prior to startup of the engine (40 CFR 60.4209(a)) and, starting with the model years in the following table, you must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The owner must record the time of operation of the engine and the reason the engine was in operation during that time. 40 CFR 60.4214(b).

| Engine power | Starting model year |
|-----------------------------|---------------------|
| 19 ≤ KW < 56 (25 ≤ HP < 75) | 2013 |

| | |
|---|------|
| $56 \leq KW < 130$ ($75 \leq HP < 175$) | 2012 |
| $130 \leq KW$ ($175 \leq HP$) | 2011 |

2. There is no time limit on the use of the emergency engine in emergency situations. 40 CFR 60.4211(f)(1).
3. The engine may be operated for the purpose of maintenance checks and readiness testing for a maximum of 100 hours/year. See 40 CFR 60.4211(f)(2) for more information.
4. The engine may be operated for up to 50 hours per year for non-emergency purposes. This operating time cannot be used for peak shaving or to generate income for the facility (e.g. supplying power to the grid) and should be included in the total of 100 hours allowed for maintenance checks and readiness testing. See 40 CFR 60.4211(f)(3) for more information.

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

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-F50

Associated Equipment

Associated Emission Unit ID Numbers: F50
Emissions Control Equipment ID Number: C50 and/or C50B
Emissions Control Equipment Description: Flare(s)

Emission Unit vented through this Emission Point: F50
Emission Unit Description: Fugitive Emissions from Truck and Rail Product Loading
(not captured by flare(s))
Raw Material/Fuel: Denatured Ethanol Loading
Rated Capacity: NA

Applicable Requirements

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

No emission limits required at this time.

Operational Limits & Requirements

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

Operating Limits

No operating limits required at this time

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-F100

Associated Equipment

Associated Emission Unit ID Numbers: F100

Emission Unit vented through this Emission Point: F100

Emission Unit Description: Fugitive Emissions Associated with Grain and DDGS Handling
Raw Material/Fuel: Grain/DDGS

Applicable Requirements

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

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

Pollutant: Fugitive Dust

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

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

Operational Limits & Requirements

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

Operating Limits

No operating limits required at this time

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 Numbers: F110

Emission Unit vented through this Emission Point: F110

Emission Unit Description: VOC Emissions from 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: Volatile Organic Compounds (VOC)

Emission Limit(s): 16.95 ton/year

Authority for Requirement: DNR Construction Permit 05-A-370-S4

Operational Limits & Requirements

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

Operating Limits

- A. The Component Count shall be documented as to the number and types of components used. Components include but are not limited to valves, pumps, compressor seals, flanges, etc.

Reporting and Recordkeeping

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

- A. Calculate and record the VOC emissions based on the documented component count. Update the VOC emission calculations as the component count varies. Emission factors shall be based on EPA document 453/R-95-017 titled Protocol for Equipment Leak Emission Estimates.

Authority for Requirement: DNR Construction Permit 05-A-370-S4

NSPS Applicability

This emission point is subject to NSPS Subpart A - General Provisions and Subpart VV - Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry.

Authority for Requirement: DNR Construction Permit 05-A-370-S4
40 CFR Part 60 Subpart A
567 IAC 23.1(2)
40 CFR Part 60 Subpart VV
567 IAC 23.1(2) "nn"

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: F120

Emission Unit vented through this Emission Point: F120
Emission Unit Description: Truck Traffic on Paved Roads

Applicable Requirements

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

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

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 5.83 ton/yr
Authority for Requirement: DNR Construction Permit 05-A-369-S2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 29.90 ton/yr
Authority for Requirement: DNR Construction Permit 05-A-369-S2

Operational Limits & Requirements

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

Operating Limits

- A. Truck traffic on the haul road shall not exceed 10 mph. The speed limit shall be posted on the haul road.
- B. Any spills on the road shall be cleaned up immediately.
- C. Truck traffic emissions on the paved road shall be controlled by water flushing (except as noted in Item C4 in this section) and sweeping (Item C in Reporting and Recordkeeping section) once per day. The water spray rate shall be a minimum of 0.23 gallons per square yard.
 1. If water flushing followed by sweeping cannot be accomplished because the ambient air temperature (as measured at the facility during daylight operating hours) will be less than 35° F (1.7° C) only sweeping is required. Water flushing and/or sweeping is not required for days of inclement weather.
 2. Water flushing and sweeping need not occur when a rain gauge located at the site indicates that at least 0.2 inches of precipitation (water equivalent) has occurred within the preceding 24-hr time period or the paved road(s) will not be used on a given day.
 3. Water flushing and sweeping need not occur if the plant does not receive any truck traffic that day (i.e. on a weekend).

4. Daily water flushing & daily sweeping need not occur provided that the haul road emissions do not exceed 20.93 tons PM (70% of PM PTE based on 3.0 g/m²) for the last twelve months. This shall be calculated using the formula in Item D in "Reporting and Recordkeeping" section. Provided emissions as calculated in Item D in "Reporting and Recordkeeping" section remain below 20.93 tons for the last twelve months only weekly sweeping is required. In the event that emissions exceed 20.93 tons for the last twelve months the plant shall be required to commence daily water flushing with daily sweeping until PM emissions fall below 20.93 tons for the last twelve months.
- D. Silt load performance testing shall be completed monthly with the initial testing being performed within 60 days of the permit issuance date. Testing shall be completed prior to water flushing and/or sweeping for that day. Provided the results demonstrate compliance with the PM & PM₁₀ ton per year emission limits in "Emission Limits" section, reduced frequency of testing may be requested after 12 performance tests have been completed (see Item D in "Reporting and Recordkeeping" section).
 - E. The owner/operator shall record the number of trucks that load/unload material on a monthly basis. Based on the number of trucks the total Vehicle Miles Traveled (VMT) shall be calculated for that month.

Reporting and Recordkeeping

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

- A. Record 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.
- B. Performance testing on the haul road surface silt loading shall be completed on a monthly basis. For each performance test, silt loading sampling shall be done for at least 3 different locations. Performance testing shall be completed prior to water flushing and/or sweeping.
- C. The plant shall maintain a log for the haul roads that show the following:
 1. The silt content of the road for that month based on testing;
 2. The date of performance testing;
 3. The vehicle miles traveled (VMT) for that month;
 4. Each day record whether or not water flushing and sweeping was accomplished. For days w/o water flushing and/or sweeping record the circumstances (i.e. weather condition, equipment malfunction);
 5. The amount of water applied and the areas treated;
 6. The operator's initials.
- D. The owner or operator shall calculate and record the monthly haul road emissions according to the following formulas, which uses the equations from AP-42 Section 13.2.1, the empirical constants, and assumes a mean vehicle weight of 28.61 tons.

$$1. \quad E_{PM} = \frac{[(2.049 \times (sL/2)^{0.65}) - 0.00044] \times VMT}{2000}$$

Where E = tons PM per month
 sL = road surface silt loading (g/m²) for each performance test
 VMT = Vehicle miles traveled

$$2. \quad E_{PM_{10}} = \frac{[(0.40 * (sL/2)^{0.65}) - 0.00044] * VMT}{2000}$$

Where E = tons PM₁₀ per month
 sL = road surface silt loading (g/m²) for each performance test
 VMT = Vehicle miles traveled

- E. The owner or operator shall update monthly the twelve-month rolling total of PM and PM₁₀ emissions by adding up the calculated monthly emissions for the previous twelve months. The plant shall notify DNR immediately if the twelve-month rolling total exceeds 29.90 tons PM or 5.83 tons of PM₁₀.

Authority for Requirement: DNR Construction Permit 05-A-369-S2

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 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. Exceedances of applicable emission rates are prohibited. "Held" in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. *567 IAC 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(1)*
4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. *567 IAC 24.114(2)*
5. A notice of intent shall be provided to the Title V source at least 30 days in advance of the date the permit is to be reopened, except that the director may provide a shorter time period in the case of an emergency. *567 IAC 24.114(3)*

G25. Permit Shield

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

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

d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 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 24.3(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 – Links to Standards

A. 40 CFR Part 60 Subpart A- General Provisions

<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-A>

B. 40 CFR Part 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>

C. 40 CFR Part 60 Subpart Kb- Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction or Modification Commenced After July 23, 1984

<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-Kb>

D. 40 CFR Part 60 Subpart DD – Standards of Performance for Grain Elevators.

<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-DD>

E. 40 CFR Part 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>

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

<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-VV>

G. 40 CFR Part 63 Subpart A- General Provisions

<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-A>

H. 40 CFR Part 63 Subpart ZZZZ- Standards of Performance for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.

<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-ZZZZ>

VI. Appendix B – IAC EO10 Code Changes Crosswalk

| 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 | Variations | Variations | 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 |

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|---------------|---------------|--|--|---|
| 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 |
| 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 |

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|-----------------|-----------------|--|---|--|
| 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 |

| 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 |
|--|------------------------|---|-------------------------------|-------------------------------------|
| 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 |

| | | | | |
|-----------|-----------------|-------------------------------------|---|---|
| 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 |

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| 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 |

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| 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 26Table 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 |
|--|------------------------|---|---|---|
| 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 |
| 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 |

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| 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) |

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| 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 |

| 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 |
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| 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 |

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| 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 |

| 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 |
|--|------------------------|--|-------------------------------|---|
| 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 |

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| 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 |

| 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 |
|--|------------------------|---|-------------------------------|---|
| 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 |