Iowa Department of Natural Resources
Title V Operating Permit
Name of Permitted Facility: MidAmerican Energy Company – Walter Scott Jr. Energy Center
Facility Location: 7215 Navajo Street, Council Bluffs, IA 51501
Air Quality Operating Permit Number: 97-TV-001R3
Expiration Date: April 18, 2023
Permit Renewal Application Deadline: 10/18/2022

EIQ Number: 92-3600
Facility File Number: 78-01-026

Responsible Official
Name: Mr. Richard Parker
Title: General Manager
Mailing Address: 7215 Navajo Street, Council Bluffs, Iowa 51501
Phone #: (712) 352-5458
rwparker@midamerican.com

Permit Contact Person for the Facility
Name: Mr. Richard Parker
Title: General Manager
Mailing Address: 7215 Navajo Street, Council Bluffs, Iowa 51501
Phone #: (712) 352-5458
rwparker@midamerican.com

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

For the Director of the Department of Natural Resources

Lori Hanson, Supervisor of Air Operating Permits Section Date
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Abbreviations

acfm............................actual cubic feet per minute
BACT..........................Best Available Control Technology
CFR.............................Code of Federal Regulation
CE ..............................control equipment
CEM............................continuous emission monitor
°F............................degrees Fahrenheit
EIQ............................emissions inventory questionnaire
EP..............................emission point
EU............................emission unit
gr./dscf .....................grains per dry standard cubic foot
gr./100 cf .....................grains per one hundred cubic feet
IAC............................Iowa Administrative Code
IDNR..........................Iowa Department of Natural Resources
MACT..........................Maximum Achievable Control Technology
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
PM₁₀..........................particulate matter ten microns or less in diameter
SO₂.............................sulfur dioxide
NOₓ.............................nitrogen oxides
VOC.............................volatile organic compound
CO.............................carbon monoxide
CO₂.............................carbon dioxide
CO₂e...........................carbon dioxide equivalent
HAP.............................hazardous air pollutant
I. Facility Description and Equipment List
Facility Name: MidAmerican Energy Company – Walter Scott Jr. Energy Center
Permit Number: 97-TV-001R3

Facility Description: Electric Services (SIC 4911)

<table>
<thead>
<tr>
<th>Emission Point Number</th>
<th>Emission Unit Number</th>
<th>Emission Unit Description</th>
<th>IDNR Construction Permit Number</th>
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<tbody>
<tr>
<td>EP-003</td>
<td>EU-003</td>
<td>WSEC 3 Boiler - Coal</td>
<td>75-A-357-P7</td>
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<td>EU-010</td>
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<td>EU-117A</td>
<td>Emergency Reclaim Hopper to Belt 8</td>
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<td>EP-011</td>
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<td>Ash Haul Road</td>
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<td>Flyash Truck Loading #3</td>
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<td>EP-025</td>
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<td>Glycol System Expansion Tank</td>
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<td>EP-027</td>
<td>EU-027</td>
<td>Unit 1, 2, &amp;3 Diesel Engine for Fire Pump</td>
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<td>EP-030</td>
<td>EU-030</td>
<td>Stockout Conveyor 7 Coal Conveying</td>
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<td>EU-031B</td>
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<td>Unit #4 Boiler - #2 Fuel Oil</td>
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<td>EP-144</td>
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<td>Unit #4 Diesel Fire Pump</td>
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<td>Unit #4 Cooling Tower</td>
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<td>Rail Unloading Stockout</td>
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<tr>
<td>EP-161</td>
<td>EU-161</td>
<td>Unit #4 Lime Storage Day Bin</td>
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<td>Unit #4 Urea Dissolver Tank</td>
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<td>EU-170</td>
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<td>EU-174</td>
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<td>EU-180</td>
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<td>EU-182</td>
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<td>EU-201</td>
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<td>EU-202</td>
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<td>Mercury (Hg) Control Sorbent Storage Silo</td>
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### Insignificant Activities Equipment List

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<td>Solvent Parts Cleaning</td>
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<td>EU-122</td>
<td>Welding Operations</td>
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<td>Transfer House #3 Reject</td>
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<td>Bead Blaster Unit 3</td>
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<td>Bead Blaster Tech. Shop</td>
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<td>EU-128</td>
<td>Unit 4 Oil/Water Separator</td>
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<td>EU-129</td>
<td>Unit 3 Oil/Water Separator</td>
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<td>Unit 1&amp;2 Lube Oil Emergency</td>
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<tr>
<td>EU-131</td>
<td>Unit 3 Emergency Generator Day Tank (175 gallon)</td>
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<td>EU-132</td>
<td>Diesel Fuel AST</td>
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<td>EU-133</td>
<td>Unleaded Gasoline AST</td>
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<td>EU-146</td>
<td>Unit 4 Turbine Lube Oil System</td>
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<td>Unit 4 Emergency Generator Diesel Tank</td>
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<td>Unit 4 Fire Pump Diesel Tank</td>
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<td>Unit 4 Waste Ash Silo Loadout</td>
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<td>Unit 4 Bead Blaster</td>
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<td>Unit 3 SDA Hopper Dump</td>
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<td>Unit 3 Lime Slurry Grit Screen Dump</td>
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<td>Unit 3 Recycle Ash Grit Screen Dump</td>
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<td>EU-NR106</td>
<td>Used Lube Oil Vault (2,000 Gallons)</td>
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<td>EU-NR107</td>
<td>Fire Pump Oil Tank (350 Gallons)</td>
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<td>EU-NR109</td>
<td>Unit 3 Turbine Lube Oil Tank (15,800 Gallons)</td>
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II. Plant-Wide Conditions
Facility Name: MidAmerican Energy Company – Walter Scott Jr. Energy Center
Permit Number: 97-TV-001R3

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

Permit Duration
The term of this permit is: Five years from permit issuance date
Commencing on: 4/19/2018
Ending on: 4/18/2023

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

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

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

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

Particulate Matter:
No person shall cause or allow the emission of particulate matter from any source in excess of the emission standards specified in this chapter, except as provided in 567 – Chapter 24. For sources constructed, modified or reconstructed after July 21, 1999, the emission of particulate matter from any process shall not exceed an emission standard of 0.1 grain per dry standard cubic foot of exhaust gas, except as provided in 567 – 21.2(455B), 23.1(455B), 23.4(455B) and 567 – Chapter 24.
For sources constructed, modified or reconstructed prior to July 21, 1999, the emission of particulate matter from any process shall not exceed the amount determined from Table I, or amount specified in a permit if based on an emission standard of 0.1 grain per standard cubic foot of exhaust gas or established from standards provided in 23.1(455B) and 23.4(455B).
Authority for Requirement: 567 IAC 23.3(2)"a"
**Fugitive Dust:** Attainment and Unclassified Areas - No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved public roads, without taking reasonable precautions to prevent particulate matter in quantities sufficient to create a nuisance, as defined in Iowa Code section 657.1, from becoming airborne. All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not limited to, the following procedures.

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

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

**40 CFR 60 Subpart A Requirements**
Applicable requirements are incorporated in the Emission Point Specific conditions.
Authority for Requirements: 40 CFR 60 Subpart A
567 IAC 23.1(2)

**40 CFR 60 Subpart D Requirements**
This facility is subject to Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction Is Commenced After August 17, 1971. The affected unit is EP-003. See Appendix B for the link of the Standard.
Authority for Requirements: 40 CFR 60 Subpart D
567 IAC 23.1(2) "a"
40 CFR 60 Subpart Da Requirements
This facility is subject to Standards of Performance for Electric Utility Steam Generating Units for Which Construction Is Commenced After September 18, 1978. The affected unit is EP-141. See Appendix B for the link of the Standard.
Authority for Requirements: 40 CFR 60 Subpart Da
567 IAC 23.1(2) "z"

40 CFR 60 Subpart Y Requirements
Authority for Requirements: 40 CFR 60 Subpart Y
567 IAC 23.1(2) "v"

40 CFR 60 Subpart IIII Requirements
This facility is subject to Standards of Performance for Stationary Compression Ignition Internal Combustion Engines. The affected unit is EP-114. See Appendix B for the link of the Standard.
Authority for Requirements: 40 CFR 60 Subpart IIII
567 IAC 23.1(2) "yyy"

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

40 CFR 63 Subpart B Requirements
This facility is subject to Requirements for Control Technology Determinations for Major Sources in Accordance With Clean Air Act Sections, Sections 112(g) and 112(j). The affected unit is EP-141. See Appendix B for the link of the Standard.
Authority for Requirements: 40 CFR 63 Subpart B
567 IAC 23.1(4) "b"

40 CFR 63 Subpart ZZZZ Requirements
Authority for Requirements: 40 CFR 63 Subpart ZZZZ
40 CFR 63 Subpart DDDDD Requirements
This facility is subject to National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters (Boiler MACT) [40 CFR Part 63 Subpart DDDDD]. The affect unit is EP-142. See Appendix B for the link of the Standard.
Authority for Requirements: 40 CFR 63 Subpart DDDDD

40 CFR 63 Subpart UUUUU Requirements
This facility is subject to National Emission Standards for Hazardous Air Pollutants from Coal- and Oil-fired Electric Utility Steam Generating Units [40 CFR 63 Subpart UUUUU]. The affected units are EP-003 and EP-141. See Appendix B for the link of the Standard.
Authority for Requirements: 40 CFR 63 Subpart UUUUU
III. Emission Point-Specific Conditions
Facility Name: MidAmerican Energy Company – Walter Scott Jr. Energy Center
Permit Number: 97-TV-001R3

Emission Point ID Number: EP-003
Associated Equipment
Associated Emission Unit ID Numbers: EU-003
Emissions Control Equipment ID Number: CE-003A; CE-003B; CE-003C; CE-003D
Emissions Control Equipment Description: CE-003A: Overfire Air-Low NO\textsubscript{x} Burners
CE-003B: Desulfurization (FGD)
CE-003C: Fabric Filter
CE-003D: Mercury (Hg) Sorbent Injection
Continuous Emissions Monitors ID Numbers: ME-003A (SO\textsubscript{2}); ME-003AL (SO\textsubscript{2}); ME-003B (NO\textsubscript{x}); ME-003C (CO\textsubscript{2}); ME-003D (Flow); ME-003E (Opacity); ME-003F (CO)

Emission Unit Descriptions, Raw Material/Fuel and Rated Capacity are listed in the following table:

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Emission Unit Description</th>
<th>Raw Material</th>
<th>Rated Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-003</td>
<td>EU-003</td>
<td>WSEC 3 Boiler</td>
<td>Coal</td>
<td>7,700 MMBtu/hr</td>
</tr>
<tr>
<td></td>
<td></td>
<td>WESC 3 Boiler</td>
<td>#2 Fuel Oil</td>
<td></td>
</tr>
</tbody>
</table>

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.

Opacity:

<table>
<thead>
<tr>
<th>Limit</th>
<th>Average Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>10%</td>
<td>1-hr average</td>
<td>COMS</td>
<td>DNR Construction Permit 75-A-357-P7</td>
<td>BACT</td>
</tr>
<tr>
<td>20%  (^1)</td>
<td>6-minutes average</td>
<td>COMS</td>
<td>DNR Construction Permit 75-A-357-P7 40 CFR 60 Subpart D 567 IAC 23.1(2) &quot;a&quot;</td>
<td>None</td>
</tr>
</tbody>
</table>

\(^1\)Opacity shall not exceed 20% (6-minute average), except for one (1) 6 minute period per hour of not more than 27% opacity.
Particulate Matter (PM$_{2.5}$):

<table>
<thead>
<tr>
<th>Limit</th>
<th>Average Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.025 lb/MMBtu</td>
<td>3-test run average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 75-A-357-P7</td>
<td>BACT</td>
</tr>
<tr>
<td>843.2 ton/yr</td>
<td>12-month rolling total$^1$</td>
<td>Recordkeeping</td>
<td>DNR Construction Permit 75-A-357-P7</td>
<td>BACT</td>
</tr>
<tr>
<td>192.5 lb/hr</td>
<td>3-test run average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 75-A-357-P7</td>
<td>None</td>
</tr>
</tbody>
</table>

$^1$ Includes periods of startup, shutdown and malfunction emissions.

Particulate Matter (PM$_{10}$):

<table>
<thead>
<tr>
<th>Limit</th>
<th>Average Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.027 lb/MMBtu</td>
<td>3-test run average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 75-A-357-P7</td>
<td>BACT</td>
</tr>
<tr>
<td>911 ton/yr</td>
<td>12-month rolling total$^1$</td>
<td>Recordkeeping</td>
<td>DNR Construction Permit 75-A-357-P7</td>
<td>BACT</td>
</tr>
<tr>
<td>207.9 lb/hr</td>
<td>3-test run average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 75-A-357-P7</td>
<td>NAAQS</td>
</tr>
</tbody>
</table>

$^1$ Includes periods of startup, shutdown and malfunction emissions.

Particulate Matter (PM):

<table>
<thead>
<tr>
<th>Limit</th>
<th>Average Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>State PM: 0.027 lb/MMBtu</td>
<td>3-test run average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 75-A-357-P7</td>
<td>BACT</td>
</tr>
<tr>
<td>State PM: 911 ton/yr</td>
<td>12-month rolling total$^1$</td>
<td>Recordkeeping</td>
<td>DNR Construction Permit 75-A-357-P7</td>
<td>BACT</td>
</tr>
<tr>
<td>Federal PM: 43 ng/J heat input (0.10 lb/MMBtu)</td>
<td>3-test run average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 75-A-357-P7</td>
<td>40 CFR 60 Subpart D 567 IAC 23.1(2) &quot;a&quot;</td>
</tr>
</tbody>
</table>

$^1$ Includes periods of startup, shutdown and malfunction emissions.
### Sulfur Dioxide (SO\(_2\))

<table>
<thead>
<tr>
<th>Limit</th>
<th>Average Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>12,632.1 ton/yr</td>
<td>12-month rolling total 1</td>
<td>CEMS</td>
<td>DNR Construction Permit 75-A-357-P7</td>
<td>None</td>
</tr>
<tr>
<td>520 ng/J heat input 2</td>
<td>3-hr rolling average</td>
<td>CEMS</td>
<td>DNR Construction Permit 75-A-357-P7</td>
<td>NSPS</td>
</tr>
<tr>
<td>(1.2 lb/MMBtu)</td>
<td></td>
<td></td>
<td>40 CFR 60 Subpart D 567 IAC 23.1(2) &quot;a&quot;</td>
<td></td>
</tr>
</tbody>
</table>

1 Includes periods of startup, shutdown and malfunction emissions.

2 520 ng/J = 1.20 lb/MMBTU. Emission limit per 40 CFR §60.43(a)(2) when the unit is combusting solid fossil fuel or solid fossil fuel and wood residue. Per 40 CFR §60.43 alternative limits are:

- 340 ng/J heat input (0.80 lb/MMBTU) when combusting liquid fossil fuel or liquid fossil fuel and wood residue [40 CFR §60.43(a)(2)].
- Per 40 CFR §60.43(b), when different fossil fuels are combusted simultaneously in any combination, the applicable standard (in ng/J) shall be determined by proration using the following formula:

\[
PS_{SO_2} = \frac{[y(340)+z(520)]}{y+z}
\]

Where:

- \(PS_{SO_2}\) = the prorated standard for SO\(_2\) when burning different fuels simultaneously, in nanograms per joule (ng/J) heat input derived from all fossil fuels fired or from all fossil fuels and wood residue fired.
- \(y\) = the percentage of total heat input derived from liquid fossil fuel
- \(z\) = the percentage of total heat input derived from solid fossil fuel.

- Per 40 CFR §60.43(d), as an alternate to meeting the requirements of 40 CFR §60.43(a) and 40 CFR §60.43(b), an owner or operator can petition the Administrator (in writing) to comply with 40 CFR §60.43Da(i)(3) or comply with 40 CFR §60.42b(k)(4) as applicable to the affected source. If the Administrator grants the petition, the source will from then on (unless the unit is modified or reconstructed in the future) have to comply with the requirements in 40 CFR §60.43Da(i)(3) or 40 CFR §60.42b(k)(4) as applicable to the affected source.
- Per 40 CFR §60.43(c), compliance shall be based on the total heat input from all fossil fuels burned, including gaseous fuels. In addition, per 40 CFR §60.45(g)(2), excess emissions are defined as:
  - For affected facilities electing not to comply with 40 CFR §60.43(d), any three (3) hour period during which the average emissions [arithmetic average of three (3) contiguous one (1) hour periods] of SO\(_2\) as measured by a CEMS exceed the applicable standard in 40 CFR §60.43; or
  - For affected facilities electing to comply with 40 CFR §60.43(d), any thirty (30) operating day period during which the average emissions [arithmetic average of all one (1) hour periods during the thirty (30) operating days) of SO\(_2\) as measured by a CEMS exceed the applicable standard in 40 CFR §60.43. Facilities complying with the thirty (30) day SO\(_2\) standard shall use the most current associated SO\(_2\) compliance and monitoring requirements in 40 CFR §60.48Da and 40 CFR §60.49Da or 40 CFR §60.45b and 40 CFR §60.47b as applicable.

7 300 ng/J = 0.70 lb/MMBTU. Emission limit per 40 CFR §60.43(a)(3) when the unit is combusting solid fossil fuel or solid fossil fuel and wood residue (except lignite or a solid fossil fuel containing 25%, by weight, or more of coal refuse). Per 40 CFR §60.44 alternative limits are:

- 86 ng/J heat input (0.20 lb/MMBTU) when combusting gaseous fossil fuel.
- 129 ng/J heat input (0.30 lb/MMBTU) when combusting liquid fossil fuel, liquid fossil fuel and wood residue, or gaseous fossil fuel and wood residue.
- liquid fossil fuel or liquid fossil fuel and wood residue [40 CFR §60.43(a)(2)].
- Per 40 CFR §60.44(b), when different fossil fuels are combusted simultaneously in any combination, the applicable standard (in ng/J) shall be determined by proration using the following formula:
**Nitrogen Oxides (NO\textsubscript{x}):**

<table>
<thead>
<tr>
<th>Limit</th>
<th>Average Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>6,547.5 ton/yr</td>
<td>12-month rolling total (^2)</td>
<td>CEMS</td>
<td>DNR Construction Permit 75-A-357-P7</td>
<td>None</td>
</tr>
<tr>
<td>300 ng/J heat input(^1) (0.70 lb/MMBtu)</td>
<td>3-hour rolling average (^2)</td>
<td>CEMS</td>
<td>DNR Construction Permit 75-A-357-P7 40 CFR 60 Subpart D 567 IAC 23.1(2) &quot;a&quot;</td>
<td>NSPS</td>
</tr>
</tbody>
</table>

\(^1\) 300 ng/J = 0.70 lb/MMBtu. This was derived from solid fossil fuel. See Construction Permit 75-A-357-P7, Section 10b (page 6) or §60.44 Standard for nitrogen oxides (NO\textsubscript{x}) for details.

\(^2\) Includes periods of startup, shutdown and malfunction emissions.

\[ PS_{NOx} = \frac{[w(260) + x(86) + y(130) + z(300)]}{w + x + y + z} \]

Where:

- \(PS_{NOx}\) = the prorated standard for NO\textsubscript{x} when burning different fuels simultaneously, in nanograms per joule (ng/J) heat input derived from all fossil fuels fired or from all fossil fuels and wood residue fired.
- \(w\) = the percentage of total heat input derived from lignite
- \(x\) = the percentage of total heat input derived from gaseous fossil fuel
- \(y\) = the percentage of total heat input derived from liquid fossil fuel
- \(z\) = the percentage of total heat input derived from solid fossil fuel.

- Per 40 CFR §60.44(e), as an alternate to meeting the requirements of 40 CFR §60.43(a) and 40 CFR §60.43(b), an owner or operator can petition the Administrator (in writing) to comply with 40 CFR §60.43Da(e)(3). If the Administrator grants the petition, the source will from then on (unless the unit is modified or reconstructed in the future) have to comply with the requirements in 40 CFR §60.43Da(e)(3).

In addition, per 40 CFR §60.45(g)(3), excess emissions are defined as:

- For affected facilities electing not to comply with 40 CFR §60.44(e), any three (3) hour period during which the average emissions [arithmetic average of three (3) contiguous one (1) hour periods] of SO\textsubscript{2} as measured by a CEMS exceed the applicable standard in 40 CFR §60.44; or

- For affected facilities electing to comply with 40 CFR §60.44(e), any thirty (30) operating day period during which the average emissions [arithmetic average of all one (1) hour periods during the thirty (30) operating days] of NO\textsubscript{x} as measured by a CEMS exceed the applicable standard in 40 CFR §60.44. Facilities complying with the thirty (30) day NO\textsubscript{x} standard shall use the most current associated NO\textsubscript{x} compliance and monitoring requirements in 40 CFR §60.48Da and 40 CFR §60.49Da.
Carbon Monoxide (CO):

<table>
<thead>
<tr>
<th>Limit</th>
<th>Average Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.42 lb/MMBtu</td>
<td>Calendar-day average</td>
<td>CEMS</td>
<td>DNR Construction Permit 75-A-357-P7</td>
<td>BACT</td>
</tr>
<tr>
<td>14,165 ton/yr</td>
<td>12-Month Rolling Total</td>
<td>CEMS</td>
<td>DNR Construction Permit 75-A-357-P7</td>
<td>BACT</td>
</tr>
<tr>
<td>12,863 lb/hr</td>
<td>One-hour average</td>
<td>CEMS</td>
<td>DNR Construction Permit 75-A-357-P7</td>
<td>None</td>
</tr>
</tbody>
</table>

1 Includes periods of startup, shutdown and malfunction emissions.

Volatile Organic Compounds (VOC):

<table>
<thead>
<tr>
<th>Limit</th>
<th>Average Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>30.7 lb/hr</td>
<td>3-test run average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 75-A-357-P7</td>
<td>None</td>
</tr>
</tbody>
</table>

Carbon Dioxide (CO₂)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Average Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,419 lb/MWh (net)</td>
<td>30-day rolling average</td>
<td>CEMS</td>
<td>DNR Construction Permit 75-A-357-P7</td>
<td>BACT</td>
</tr>
</tbody>
</table>

1 Compliance with the emission standards shall be demonstrated through the use of Continuous Emission Monitoring Systems (CEMS). See DNR Construction Permit 75-A-357-P7, Condition 12 and Condition 16 for more information on compliance with the use of CEMS.

2 Standard is a 30-day rolling average not including periods of startup, shutdown, and malfunction (SSM).

3 MWh = megawatt-hour. MWh (net) shall be determined by subtracting the metered megawatt-hour value for station service from the metered megawatt-hour value for gross generation. Alternatively, net generation may be obtained directly from a power metering device for net generation, if the metering instrument is electrically equivalent to gross generation minus station service.
CO$_2$e $^1$

<table>
<thead>
<tr>
<th>Limit</th>
<th>Average Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>7,223,389 tons/yr</td>
<td>NA</td>
<td>Recordkeeping</td>
<td>DNR Construction Permit 75-A-357-P7</td>
<td>BACT</td>
</tr>
</tbody>
</table>

$^1$ Compliance shall be determined by multiplying the mass of each greenhouse gas (GHG) as defined in 40 CFR §98.6 by its respective global warming potential (GWP) as defined in 40 CFR Part 98, Table A-1 and summing the results. The version of Table A-1 used shall be the version promulgated as of the October 30, 2009 which listed the following GWPs:

- CO$_2$ = 1
- CH$_4$ = 21
- N$_2$O = 310

The CO$_2$ mass emissions shall be obtained from the required CEMS and the mass emissions for methane (CH$_4$) and nitrous oxide (N$_2$O) shall be determined by the stack testing required in Condition 12.

**Operational Limits & Requirements**

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

**Best Available Control Technology (BACT) Emission Limits**

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Tons/Yr$^1$</th>
<th>Additional Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>State Particulate Matter (PM)</td>
<td>911</td>
<td>0.027 lb/MMBTU$^2$</td>
</tr>
<tr>
<td>PM$_{10}$</td>
<td>911</td>
<td>0.027 lb/MMBTU$^2$</td>
</tr>
<tr>
<td>PM$_{2.5}$</td>
<td>843.2</td>
<td>0.025 lb/MMBTU$^2$</td>
</tr>
<tr>
<td>Opacity$^3$</td>
<td>NA</td>
<td>10%$^4$</td>
</tr>
<tr>
<td>Carbon Monoxide (CO)$^3$</td>
<td>14,165</td>
<td>0.42 lb/MMBTU$^5$</td>
</tr>
<tr>
<td>Carbon Dioxide (CO$_2$)$^3$</td>
<td>NA</td>
<td>2,419 lb/MWh (net)$^6,7$</td>
</tr>
<tr>
<td>Carbon Dioxide equivalents (CO$_2$e)$^8$</td>
<td>7,223,389</td>
<td>NA</td>
</tr>
</tbody>
</table>

$^1$ Standard is a 12-month rolling total. The standard includes all periods of operation including periods of startup, shutdown, and malfunction (SSM).

$^2$ Standard is expressed as the average of three (3) stack test runs.

$^3$ Compliance with the emission standards shall be demonstrated through the use of Continuous Emission Monitoring Systems (CEMS). See Condition 12 and Condition 16 for more information on compliance with the use of CEMS.

$^4$ Standard is a one (1) hour average.

$^5$ Standard is a one (1) calendar day average not including periods of SSM.

$^6$ Standard is a 30-day rolling average not including periods of startup, shutdown, and malfunction (SSM).

$^7$ MWh = megawatt-hour. MWh (net) shall be determined by subtracting the metered megawatt-hour value for station service from the metered megawatt-hour value for gross generation. Alternatively, net generation may be obtained directly from a power metering device for net generation, if the metering instrument is electrically equivalent to gross generation minus station service.

$^8$ Compliance shall be determined by multiplying the mass of each greenhouse gas (GHG) as defined in 40 CFR §98.6 by its respective global warming potential (GWP) as defined in 40 CFR Part 98, Table A-1 and summing the results. The version of Table A-1 used shall be the version promulgated as of the October 30, 2009 which listed the following GWPs:

- CO$_2$ = 1
- CH$_4$ = 21
- N$_2$O = 310
The CO\textsubscript{2} mass emissions shall be obtained from the required CEMS and the mass emissions for methane (CH\textsubscript{4}) and nitrous oxide (N\textsubscript{2}O) shall be determined by the stack testing required in Condition 12.

**New Source Performance Standards (NSPS) Limits**

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Emission Standard\textsuperscript{1}</th>
<th>Reference (567 IAC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal PM</td>
<td>43 ng/J heat input\textsuperscript{2}</td>
<td>23.1(2)&quot;a&quot;\textsuperscript{3}</td>
</tr>
<tr>
<td>Opacity\textsuperscript{4}</td>
<td>20%\textsuperscript{5}</td>
<td>23.1(2)&quot;a&quot;\textsuperscript{3}</td>
</tr>
<tr>
<td>SO\textsubscript{2}\textsuperscript{6}</td>
<td>520 ng/J heat input\textsuperscript{6}</td>
<td>23.1(2)&quot;a&quot;\textsuperscript{3}</td>
</tr>
<tr>
<td>NO\textsubscript{X}\textsuperscript{4}</td>
<td>300 ng/J heat input\textsuperscript{7}</td>
<td>23.1(2)&quot;a&quot;\textsuperscript{3}</td>
</tr>
</tbody>
</table>

\textsuperscript{1} Standard is expressed as the average of three (3) runs.
\textsuperscript{2} 43 ng/J = 0.10 lb/MMBTU. See 40 CFR §60.42(a)(1).
\textsuperscript{4} Compliance with the emission standards shall be demonstrated through the use of a CEMS. See Condition 12 and Condition 16 for more information on compliance with the use of CEMS.
\textsuperscript{5} Opacity shall not exceed 20% (6-minute average), except for one (1) 6-minute period per hour of not more than 27% opacity. See 40 CFR §60.42(a)(2).
\textsuperscript{6} 520 ng/J = 1.20 lb/MMBTU. Emission limit per 40 CFR §60.43(a)(2) when the unit is combusting solid fossil fuel or solid fossil fuel and wood residue. Per 40 CFR §60.43 alternative limits are:
  • 340 ng/J heat input (0.80 lb/MMBTU) when combusting liquid fossil fuel or liquid fossil fuel and wood residue [40 CFR §60.43(a)(2)].

Per 40 CFR §60.43(b), when different fossil fuels are combusted simultaneously in any combination, the applicable standard (in ng/J) shall be determined by proration using the following formula:

\[
PS_{SO2} = \frac{[y(340)+z(520)]}{y+z}
\]

Where:

PS\textsubscript{SO2} = the prorated standard for SO\textsubscript{2} when burning different fuels simultaneously, in nanograms per joule (ng/J) heat input derived from all fossil fuels fired or from all fossil fuels and wood residue fired.

\(y\) = the percentage of total heat input derived from liquid fossil fuel
\(z\) = the percentage of total heat input derived from solid fossil fuel.

Per 40 CFR §60.43(d), as an alternate to meeting the requirements of 40 CFR §60.43(a) and 40 CFR §60.43(b), an owner or operator can petition the Administrator (in writing) to comply with 40 CFR §60.43Da(i)(3) or comply with 40 CFR §60.42b(k)(4) as applicable to the affected source. If the Administrator grants the petition, the source will from then on (unless the unit is modified or reconstructed in the future) have to comply with the requirements in 40 CFR §60.43Da(i)(3) or 40 CFR §60.42b(k)(4) as applicable to the affected source.

Per 40 CFR §60.43(c), compliance shall be based on the total heat input from all fossil fuels burned, including gaseous fuels.

In addition, per 40 CFR §60.45(g)(2), excess emissions are defined as:

• For affected facilities electing not to comply with 40 CFR §60.43(d), any three (3) hour period during which the average emissions [arithmetic average of three (3) contiguous one (1) hour periods] of SO\textsubscript{2} as measured by a CEMS exceed the applicable standard in 40 CFR §60.43; or
• For affected facilities electing to comply with 40 CFR §60.43(d), any thirty (30) operating day period during which the average emissions [arithmetic average of all one (1) hour periods during the thirty (30) operating days) of SO\textsubscript{2} as measured by a CEMS exceed the applicable standard in 40 CFR §60.43. Facilities complying with the thirty (30) day SO\textsubscript{2} standard shall use the most current associated SO\textsubscript{2} compliance and monitoring requirements in 40 CFR §60.48Da and 40 CFR §60.49Da or 40 CFR §60.45b and 40 CFR §60.47b as
applicable.

300 ng/J = 0.70 lb/MMBTU. Emission limit per 40 CFR §60.43(a)(3) when the unit is combusting solid fossil fuel or solid fossil fuel and wood residue (except lignite or a solid fossil fuel containing 25%, by weight, or more of coal refuse). Per 40 CFR §60.44 alternative limits are:

- 86 ng/J heat input (0.20 lb/MMBTU) when combusting gaseous fossil fuel.
- 129 ng/J heat input (0.30 lb/MMBTU) when combusting liquid fossil fuel, liquid fossil fuel and wood residue, or gaseous fossil fuel and wood residue.
- Liquid fossil fuel or liquid fossil fuel and wood residue [40 CFR §60.43(a)(2)].
- Per 40 CFR §60.44(b), when different fossil fuels are combusted simultaneously in any combination, the applicable standard (in ng/J) shall be determined by proration using the following formula:

$$PS_{NOx} = \frac{[w(260) + x(86) + y(130) + z(300)]}{w + x + y + z}$$

Where:

- $PS_{NOx}$ = the prorated standard for NO\textsubscript{x} when burning different fuels simultaneously, in nanograms per joule (ng/J) heat input derived from all fossil fuels fired or from all fossil fuels and wood residue fired.
- $w$ = the percentage of total heat input derived from lignite
- $x$ = the percentage of total heat input derived from gaseous fossil fuel
- $y$ = the percentage of total heat input derived from liquid fossil fuel
- $z$ = the percentage of total heat input derived from solid fossil fuel.

- Per 40 CFR §60.44(e), as an alternate to meeting the requirements of 40 CFR §60.43(a) and 40 CFR §60.43(b), an owner or operator can petition the Administrator (in writing) to comply with 40 CFR §60.43Da(e)(3). If the Administrator grants the petition, the source will from then on (unless the unit is modified or reconstructed in the future) have to comply with the requirements in 40 CFR §60.43Da(e)(3).

In addition, per 40 CFR §60.45(g)(3), excess emissions are defined as:

- For affected facilities electing not to comply with 40 CFR §60.44(e), any three (3) hour period during which the average emissions [arithmetic average of three (3) contiguous one (1) hour periods] of SO\textsubscript{2} as measured by a CEMS exceed the applicable standard in 40 CFR §60.44; or
- For affected facilities electing to comply with 40 CFR §60.44(e), any thirty (30) operating day period during which the average emissions [arithmetic average of all one (1) hour periods during the thirty (30) operating days] of NO\textsubscript{x} as measured by a CEMS exceed the applicable standard in 40 CFR §60.44. Facilities complying with the thirty (30) day NO\textsubscript{x} standard shall use the most current associated NO\textsubscript{x} compliance and monitoring requirements in 40 CFR §60.48Da and 40 CFR §60.49Da.

### Other Emission Limits

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>lb/hr</th>
<th>Tons/yr(^1)</th>
<th>Additional Limits</th>
<th>Reference (567 IAC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM(_{10})</td>
<td>207.9(^2, 3, 4)</td>
<td>NA</td>
<td>NA</td>
<td>NAAQS</td>
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<tr>
<td>PM(_{2.5})</td>
<td>192.5(^2, 4)</td>
<td>NA</td>
<td>NA</td>
<td>Insignificant for Modeling</td>
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<tr>
<td>SO(_2)</td>
<td>NA</td>
<td>12,632.1(^5)</td>
<td>NA</td>
<td>PSD “synthetic minor”</td>
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<tr>
<td>NO(_x)</td>
<td>NA</td>
<td>6,547.5(^5)</td>
<td>NA</td>
<td>PSD “synthetic minor”</td>
</tr>
<tr>
<td>VOC</td>
<td>30.7(^5)</td>
<td>NA</td>
<td>NA</td>
<td>PSD Minor increase</td>
</tr>
<tr>
<td>CO</td>
<td>12.86(^3)</td>
<td>NA</td>
<td>NA</td>
<td>Insignificant for Modeling</td>
</tr>
</tbody>
</table>

\(^1\) Standard is a twelve (12) month rolling total.
\(^2\) Standard is expressed as the average of three (3) stack test runs.
\(^3\) Emission rate used in the computer aided dispersion model in Project Number 06-250 to demonstrate no exceedances of the National Ambient Air Quality Standards (NAAQS).
\(^4\) Emission rate used in Project Number 13-466 to show there was no change in hourly emissions for this unit and that the project (PN 13-466) has impacts below the significant increase threshold.
Emission rate set in order to demonstrate Project Number 14-466 does not have a significant increase in emissions. Emission limit was set based on dispersion modeling to demonstrate Project Number 13-466 would not have a significant impact on the ambient air.

Authority for Requirement:  DNR Construction Permit 75-A-357-P7

Operating Limits

Operating limits for this emission unit shall be:

A. This unit shall be limited to firing coal, with fuel oil for startup
B. A bag leak detection system must be installed to meet the following criteria:
   (1) At least one detector must be located in each compartment of the baghouse.
   (2) The bag leak detection system must be installed, operated, calibrated and maintained in a manner consistent with the manufacturer’s written specifications and recommendations and in accordance with the guidance provided in “Fabric Filter Bag Leak Detection Guidance”, EPA-454/R-98-015, September 1997.
   (3) The bag leak detection system must be certified by the manufacturer to be capable of detecting particulate matter emissions at concentrations of 10 milligrams per actual cubic meter or less.
   (4) The bag leak detection system sensor must provide output of relative or absolute particulate matter loadings.
   (5) The bag leak detection system must be equipped with a device to continuously record the output signal from the sensors.
   (6) The bag leak detection system must be equipped with an alarm system that will sound automatically when an increase in relative particulate matter emissions over a preset level is detected. The alarm must be located where it is easily heard by plant operating personnel.
   (7) The system’s instrumentation and alarm may be shared among detectors.
   (8) The system’s alarm shall sound no more than 5% of the operating time during a 6 month period.
C. Trucks which haul either ash or sludge shall either be covered with a tarp or enclosed.
D. The waste material collected by the fabric filter and stored in the FGD waste silo system shall be processed through a pug-mill during loadout to increase the material moisture content to a minimum of 20%. Water wagons shall be used to wet the waste material during disposal site grading activities. This requirement does not apply to waste material being sold for beneficial use.
E. The owner or operator may, but is not required to, treat the coal burned in this unit with chemicals containing additives including a mineral composite of calcium silicate components and other calcium compounds containing iron and aluminum and/or calcium bromide or calcium chloride.
F. The following conditions are required, at startup of WSEC 4, on the haul roads to meet the BACT emission rates:
   (1) For paved roads:
      (i) Fugitive emissions of paved haul roads shall be controlled to an effective control efficiency of 80% by either water flushing followed by sweeping or using a street sweeper that is certified to achieve a pick-up efficiency of 80%. The control
efficiency of 80% shall be achieved by either using a certified sweeper once per day or by water flushing followed by sweeping of the paved haul roads once per day. The water spray rate shall be a minimum of 0.23 gallons per square yard.

(ii) 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, or conditions due to weather, in combination with the application of the water, could create hazardous driving conditions, then the water flushing and sweeping shall be postponed and accomplished as soon after the scheduled date as the conditions preventing the application have abated.

(iii) Water flushing and sweeping need not occur when a rain gage 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.

(2) For unpaved roads:

(i) Fugitive emissions from unpaved haul roads shall be controlled by applying a chemical dust suppressant. A control efficiency of 95% shall be maintained on all unpaved haul roads. The owner or operator may elect to use any chemical dust suppressant that is capable of achieving the 95% control efficiency. In the event that the manufacturer or distributor of a chemical dust suppressant recommends different amounts of chemical dust suppressant or MidAmerican chooses to use a different chemical dust suppressant, MidAmerican shall notify DNR of the change in application rates and/or chemical dust suppressant and the manufacturer’s/distributor’s recommendations.

(ii) If the selected chemical dust suppressant cannot be applied because the ambient air temperature (as measured at the facility during daylight operating hours) will be less than 35 F, or conditions due to weather, in combination with the application of the chemical dust suppressant, could create hazardous driving conditions, then the chemical dust suppressant application shall be postponed and accomplished as soon after the scheduled date as the conditions preventing the application have abated.

G. The owner or operator is not required to operate the Electrostatic Precipitator (ESP, CE 003) as long as the owner or operator is able to demonstrate compliance with the emission limits listed in DNR Construction Permit 75-A-357-P7, Condition 10 of this permit without the ESP in operation.

H. The owner or operator shall not operate Boilers 1 (EP 001) and 2 (EP 002) after the work on Boiler 3 (EP 003) associated with Project Number 13-466 has been completed and Boiler 3 (EP 003) has commenced fuel combustion. Within sixty (60) days of Boiler 3 (EP 003) commencing fuel combustion after the completion of the work associated with Project Number 13-466, the owner or operator shall make Boilers 1 (EP 001) and 2 (EP 002) inoperable.

I. The owner or operator shall prepare a work practice manual documenting all efficiency practices (i.e. a “Work Practices Manual”) at the facility, and submit the manual to the Department prior to the completion of construction of Project Number 13-466. This manual shall specifically address control equipment operation, boiler cleanliness practices (such as soot-blowing frequency), document the existing steam turbine design efficiency and combustion control optimizations at the plant, and all other efficiencies at
the plant (Plant Number 78-01-025). The *Work Practices Manual* shall be implemented upon the later of the Department’s review and approval or the completion of construction of Project Number 13-466. The *Work Practices Manual* shall be revised and submitted to the Department as necessary to document any proposed efficiency changes at the facility. The revised manual shall be implemented upon the Department’s approval of the proposed changes.

**Reporting 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. These records shall show the following:

A. The owner or operator shall submit excess emission and monitoring system performance reports to the Administrator semiannually for each six-month period in the calendar year, as required in 40 CFR 60.45(g). All semiannual reports shall be postmarked by the 30th day following the end of each six-month period. Each excess emission and MSDP report shall include the information required in 40 CFR 60.7(c).

B. The owner or operator is required to meet all applicable recordkeeping and reporting requirements under NSPS Subparts A and D.

C. The following records must be maintained from the bag leak detection system:
   (1) The date, time and duration of each system alarm.
   (2) The time corrective action was initiated and completed.
   (3) A brief description of the cause of the alarm and the corrective action.
   (4) A record of the percent of operating time during each 6 month period that the alarm sounds. In calculating the operating time percentage,
      (i) If an inspection of the fabric filter demonstrates that no corrective action is required, no alarm time is counted.
      (ii) If corrective action is required, each alarm shall be counted as a minimum of 1 hour.
      (iii) If it takes longer than 1 hour to initiate corrective action, the alarm time shall be counted as the actual amount of time taken to initiate corrective action.

D. A log shall be kept showing the following for haul roads, after startup of WSEC 4:
   (1) Paved roads:
      (i) Records of either the use of a certified sweeper or the applications shall be maintained and shall include:
         • The dates of each application or use of certified sweeper
         • The amount of water applied (if applicable),
         • The areas treated or swept by certified sweeper, and
         • The operator’s initials.
      (ii) If water is to be used and is not applied when scheduled then the records should so indicate and provide an explanation.
   (2) Unpaved roads:
      (i) Records of the applications shall be maintained and shall include:
         • The dates of each application
         • The chemical dust suppressant used
• The application intensity (gal/sq yd)
• Dilution ratio
• The operator’s initials, and
• Documentation of road and weather conditions, if necessary.

(ii) If the suppressant is not applied as planned, then the records should so indicate and provide an explanation.

Authority for Requirement: DNR Construction Permit 75-A-357-P7

New Source Performance Standards (NSPS) and National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability

This emission unit is subject to Subparts A (General Provisions, 40 CFR §60.1 – 40 CFR §60.19) and D (Standards of Performance for Fossil-Fuel-fired Steam Generators for Which Construction Is Commenced After August 17, 1971; 40 CFR §60.40 – 40 CFR §60.46) of the New Source Performance Standards (NSPS).

This equipment is subject to the following federal regulation: National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units [40 CFR Part 63, Subpart UUUUU].

The facility (plant number 78-01-026) is considered an affected source under 40 CFR 72, 73, 75, 76, 77, and 78 definitions as emission units at this source are subject to the acid rain emission reduction requirements or the acid rain emission limitations, as adopted by the Department by reference (See 567 IAC 22.120 – 567 IAC 22.148). This emission unit is subject to the SO₂ allowance allocation, NOₓ emission limitations, and monitoring provisions of the federal acid rain program.

Authority for Requirement: DNR Construction Permit 75-A-357-P7

Cross-State Air Pollution Rule (CSAPR) (a.k.a., Transport Rule (TR))
Pollutant: Nitrogen Oxides (NOₓ) Annual, Nitrogen Oxides (NOₓ) Ozone Season, Sulfur Dioxide (SO₂) Group 1
Emission Limits: Nitrogen Oxides and Sulfur Dioxide Allowances

Authority for Requirement: 40 CFR Part 97 (See appendix for requirements)

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 550
Stack Opening, (inches, dia.): 300
Exhaust Flow Rate (scfm): 2,318,750
Exhaust Temperature (°F): 180
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 75-A-357-P7
The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flow rate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

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

**Stack Testing**

Pollutant – Particulate Matter (PM and PM10)
- 1st Stack Test to be completed within 12-months of permit issuance
- 2nd Stack Test to be completed between 30 months and 42 months from permit issuance

Test Method - Iowa Compliance Sampling Manual Method 5 for PM
40 CFR 51, Appendix M, 201A with 202 or approved alternative test method for PM10

Authority for Requirement – 567 IAC 22.108(3)

**Continuous Emission Monitoring**

The following continuous emission monitoring requirements apply to this emission point and its associated emission unit(s) and control equipment:

A. The following monitoring systems are required:

- **Opacity:**

  In accordance with 40 CFR §60.45(a), the owner or operator shall install, calibrate, maintain, and operate a continuous opacity monitoring system (COMS) and record the output of the system, for measuring the opacity of emissions discharged to the atmosphere except as provided under 40 CFR §60.45(b).

  The system shall be designed to meet the 40 CFR 60, Appendix B, Performance Specification 1 (PS1).

  Per 40 CFR §60.45(b)(5), the owner or operator may petition the Administrator (in writing) to install a PM CEMS as an alternative to the CEMS for monitoring opacity emissions.

- **SO₂:**

  In accordance with 40 CFR §60.45(a), the owner or operator shall install, calibrate, maintain, and operate a continuous emission monitoring system (CEMS) and record
the output of the system, for measuring sulfur dioxide (SO₂) emissions, except as provided by 40 CFR §60.45(b).

The system shall be designed to meet the 40 CFR 60, Appendix B, Performance Specification 2 (PS2) and Performance Specification 6 (PS6) requirements. The specifications of 40 CFR 60, Appendix F (Quality Assurance/Quality Control) shall apply. Appendix F requirements shall be supplemented with a notice to the Department with the dates of the annual relative accuracy test audit.

This monitor shall also be used to demonstrate compliance with the non-NSPS emission standards in this permit.

- **NOₓ:**

In accordance with 40 CFR §60.45(a), the owner or operator shall install, calibrate, maintain, and operate a continuous emission monitoring system (CEMS) and record the output of the system, for measuring nitrogen oxide (NOₓ) emissions, except as provided by 40 CFR §60.45(b).

The system shall be designed to meet the 40 CFR 60, Appendix B, Performance Specification 2 (PS2) and Performance Specification 6 (PS6) requirements. The specifications of 40 CFR Appendix F (Quality Assurance/Quality Control) shall apply. Appendix F requirements shall be supplemented with a notice to the Department with the dates of the annual relative accuracy test audit.

This monitor shall also be used to demonstrate compliance with the non-NSPS emission standards in this permit.

- **O₂ or CO₂:**

In accordance with 40 CFR §60.45(a), the owner or operator shall install, calibrate, maintain, and operate a CEMS and record the output of the system, for measuring the oxygen (O₂) or carbon dioxide (CO₂) content of the flue gases at each location where SO₂ or NOₓ emissions are monitored.

- **CO:**

Compliance with the carbon monoxide (CO) emission limits of this permit shall be continuously demonstrated by the owner or operator through the use of a CEMS. Therefore, the owner or operator shall install, calibrate, maintain, and operate a CEMS for measuring CO emissions discharged to the atmosphere and record the output of the system.

The system shall be designed to meet the 40 CFR 60, Appendix B, Performance Specification 4A (PS4A) and Performance Specification 6 (PS6) requirements. The specifications of 40 CFR 60, Appendix F (Quality Assurance/Quality Control) shall apply.
apply. Appendix F requirements shall be supplemented with a notice to the Department with the dates of the annual relative accuracy test audit.

- **Wattmeter:**

  The owner or operator shall install, calibrate, maintain, and operate a wattmeter; measure gross electrical output in megawatt-hour on a continuous basis; and record the output of the monitor for demonstrating compliance with the output-based standard under Condition 10a. of this permit.

- **Flowmeter:**

  The owner or operator shall install, certify, operate, and maintain a continuous flow monitoring system meeting the requirements of 40 CFR 60, Appendix B, Performance Specification 6 and 40 CFR 60, Appendix F, Procedure 1. In addition, the owner or operator shall record the output of the system, for measuring the volumetric flow of exhaust gases discharged to the atmosphere or

  Alternatively, data from a continuous flow monitoring system certified according to the requirements of 40 CFR §75.20(c) and 40 CFR 75, Appendix A, and continuing to meet the applicable quality control and quality assurance requirements of 40 CFR §75.21 and 40 CFR 75, Appendix B, may be used.

B. The CEMS required in DNR Construction Permit 75-A-357-P7, Condition 16.A. for SO₂, NOₓ, and either O₂ or CO₂ shall be operated and the data recorded during all periods of operation including periods of startup, shutdown, malfunction or emergency conditions, except for CEMS breakdowns, repairs, calibration checks, and zero and span adjustments.

C. The following data requirements shall apply to all CEMS for non-NSPS emission standards in this permit:

1. The CEMS required by this permit shall be operated and data recorded during all periods of operation of the emission unit except for CEM breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments.

2. The 1-hour average SO₂, NOₓ, CO, and CO₂ emission rates measured by the CEMS required by this permit shall be used to calculate compliance with the emission standards of this permit. At least 2 data points must be used to calculate each 1-hour average.

3. For each hour of missing emission data (NOₓ, SO₂, CO, or CO₂), the owner or operator shall substitute data by:

   (i) If the monitor data availability is equal to or greater than 95.0%, the owner or operator shall calculate substitute data by means of the automated data acquisition and handling system for each hour of each missing data period according to the following procedures:

   (a) For the missing data period less than or equal to 24 hours, substitute the average of the hourly concentrations recorded by a pollutant concentration
monitor for the hour before and the hour after the missing data period.

(b) For a missing data period greater than 24 hours, substitute the greater of:
   - The 90th percentile hourly concentration recorded by a pollutant concentration monitor during the previous 720 quality-assured monitor operating hours; or
   - The average of the hourly concentrations recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period.

(ii) If the monitor data availability is at least 90.0% but less than 95.0%, the owner or operator shall calculate substitute data by means of the automated data acquisition and handling system for each hour of each missing data period according to the following procedures:
   (a) For a missing data period of less than or equal to 8 hours, substitute the average of the hourly concentrations recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period.
   (b) For the missing data period of more than 8 hours, substitute the greater of:
      - The 95th percentile hourly pollutant concentration recorded by a pollutant concentration monitor during the previous 720 quality-assured monitor operating hours; or
      - The average of the hourly concentrations recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period.

(iii) If the monitor data availability is less than 90.0%, the owner or operator shall obtain actual emission data by an alternate testing or monitoring method approved by the Department.

D. If requested by the Department, the owner/operator shall coordinate the quarterly cylinder gas audits with the Department to afford the Department the opportunity to observe these audits. The relative accuracy test audits shall be coordinated with the Department.

Authority for Requirement – DNR Construction Permit 75-A-357-P7

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)
<table>
<thead>
<tr>
<th>Requirement</th>
<th>Yes</th>
<th>No</th>
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<tbody>
<tr>
<td>Agency Approved Operation &amp; Maintenance Plan Required?</td>
<td></td>
<td>No</td>
</tr>
<tr>
<td>Facility Maintained Operation &amp; Maintenance Plan Required?</td>
<td></td>
<td>No</td>
</tr>
<tr>
<td>Compliance Assurance Monitoring (CAM) Plan Required?</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

Authority for Requirement: 567 IAC 22.108(3)
Compliance Assurance Monitoring Plan for EP-003

I. Background

A. Emissions Unit:
   Description: WSEC Boiler 3, Wall-fired, Dry-Bottom Pulverized Coal Unit
   Identification: EU-003
   Facility: MidAmerican Energy Co. – Walter Scott, Jr. Energy Center

B. Applicable Regulation, Emission Limit, and Monitoring Requirements:
   Regulation No.: Construction Permit 75-A-357-P7
   Particulate Emission Limit: 0.027 lb/MMBtu; 43 ng/J Heat Input; 911 ton/yr
   Opacity Emission Limit: 10%, 20%
   Current Monitoring Requirements: Alarm of the Bag Leak Detection System

C. Control Technology: Fabric Filter

II. Monitoring Approach

A. Indicator
   An alarm system will be used as an indicator.

B. Measurement Approach
   The alarm system will sound automatically when an increase in related particulate matter emissions over a preset level is detected

C. Indicator Range
   The alarm system shall sound no more than 5% of the operating time during a 6-month period.

D. Performance Criteria
   Data representativeness: The alarm system will sound when the particulate matter emissions increase over the predetermined parameter.
   Verification of operational status: The bag leak record will be kept for five years.
   QA/QC practices and criteria: At least one detector must be located in compartment of the baghouse;
   The bag leak detection system must be installed, operated, calibrated and maintained in a manner consistent with the guidance provided in "Fabric Filter Bag Leak Detection Guidance", EPA-454/R-98-015, September 1997;
   The bag leak detection system must be certified by the manufacturer to be capable of detecting particulate matter emissions at concentrations of 10 milligrams per actual cubic meter or less;
The bag leak detection system sensor must provide output of relative or absolute particulate matter loadings;
The bag leak detection system must be equipped with a device to continuously record the output signal from the sensors;
The bag leak detection system must be equipped with an alarm system that will sound automatically when an increase in relative particulate matter emissions over a preset level is detected. The alarm must be located where it is easily heard by plant operating personnel. The system's instrumentation and alarm may be share among detectors;
The system's alarm shall sound no more than 5% of the operating time during a 6-month period.

**Monitoring frequency and data Collection procedure:**
The bag leak detection system shall operate continuously. Records of the readings shall be maintained for five years.
**Emission Point ID Number:** EP-006

**Associated Equipment**

Associated Emission Unit ID Numbers: EU-006
Emissions Control Equipment ID Number: CE-006
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-006
Emission Unit Description: Rotary Car Dumper
Raw Material/Fuel: Coal
Rated Capacity: 3500.0 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): 5%\(^1\)
Authority for Requirement: DNR Construction Permit 03-A-436-P2
\(^1\) Standard is a 1-hr average.

Pollutant: Opacity
Emission Limit(s): 20%\(^2\)
Authority for Requirement: DNR Construction Permit 03-A-436-P2
40 CFR 60 Subpart Y
567 IAC 23.1(2) "v"

\(^2\) Averaging period is six (6) minutes

Pollutant: Particulate Matter (PM\(_{10}\))
Emission Limit(s): 0.005 gr/dscf; 6.43 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-436-P2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.005 gr/dscf
Authority for Requirement: DNR Construction Permit 03-A-436-P2

**Operational Limits & Requirements**

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

**Operating Limits**

A. The facility is required to schedule a PM\(_{10}\) compliance test within thirty (30) days if it exceeds the one (1) hour, 5% BACT opacity limit.

B. Fugitive emissions shall be controlled by applying a chemical dust suppressant. Applications of the selected chemical dust suppressant and the record keeping requirements described in Condition R in the section of Reporting and Recordkeeping shall begin at the same time as the startup of Boiler 4. A control efficiency of 95% shall be maintained. MidAmerican may elect to use any chemical dust suppressant that is
capable of achieving the 95% control efficiency. In the event that the manufacturer or distributor of a chemical dust suppressant recommends different amounts of chemical dust suppressant or MidAmerican chooses to use a different chemical dust suppressant, MidAmerican shall notify DNR of the change in application rates and/or chemical dust suppressant and the manufacturer's/distributor's recommendations.

C. If the selected chemical dust suppressant cannot be applied because the ambient air temperature (as measured at the facility during daylight operating hours) will be less than 35°F (1.7°C) or other conditions due to weather cause the chemical dust suppressant to not be applied then the chemical dust suppressant application shall be postponed and applied as soon after the scheduled application date as the conditions preventing the application have abated.

D. The application of chemical dust suppressant is not required when rail unloading is done directly from the train to the plant silos without first depositing to a pile.

**Authority for Requirement:** DNR Construction Permit 03-A-436-P2 & 03-A-425-P4

**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. Rail unloading:

   (i) Records of the applications shall be maintained and shall include:

   - The dates of each application;
   - The chemical dust suppressant used;
   - The application intensity (gal/yt²);
   - Dilution ratio;
   - The operator's initials, and
   - Documentation of weather conditions, if necessary.

   (ii) If the selected chemical dust suppressant is not applied as planned, then the records should so indicate and provide an explanation.

**Authority for Requirement:** DNR Construction Permit 03-A-425-P4

**NSPS and NESHAP Applicability**

This emission point is subject to NSPS Subpart A – General Provisions and Subpart Y – Standards of Performance for Coal Preparation Plants.

**Authority for Requirement:** 40 CFR 60 Subpart Y

567 IAC 23.1(2) "v"
**Emission Point Characteristics**

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

- Stack Height, (ft, from the ground): 90
- Stack Opening, (inches, dia.): 82
- Exhaust Flow Rate (scfm): 150,000
- Exhaust Temperature (°F): 70
- Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 03-A-436-P2

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

**Monitoring Requirements**

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

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

Authority for Requirement: 567 IAC 22.108(3)

*See Appendix A for the CAM Plan.*
**Emission Point ID Number:** EP-009

**Associated Equipment**

- **Associated Emission Unit ID Numbers:** EU-009
- **Emissions Control Equipment ID Number:** CE-010
- **Emissions Control Equipment Description:** Baghouse
- **Continuous Emissions Monitors ID Numbers:** None

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**Emission Unit vented through this Emission Point:** EU-009

**Emission Unit Description:** Transfer House #1 – Coal Conveying

**Raw Material/Fuel:** Coal

**Rated Capacity:** 3500.0 ton/hr

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**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):** 20%  
**Authority for Requirement:** DNR Construction Permit 78-A-169-S5  
40 CFR 60 Subpart Y  
567 IAC 23.1(2) "v"

1 Averaging period is six (6) minutes.

**Pollutant:** Particulate Matter (PM$_{10}$)

**Emission Limit(s):** 1.31 lb/hr; 0.005 gr/dscf  
**Authority for Requirement:** DNR Construction Permit 78-A-169-S5

**Pollutant:** Particulate Matter (PM)

**Emission Limit(s):** 1.31 lb/hr; 0.005 gr/dscf; 0.1 gr/dscf  
**Authority for Requirement:** DNR Construction Permit 78-A-169-S5  
567 IAC 23.3(2) "a"

---

**Operational Limits & Requirements**

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

**Operating Limits**

A. Maintain Baghouse (CE-010) according to manufacturer specifications and maintenance schedule.
Reporting and Recordkeeping  
All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

A. Maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of Baghouse (CE-010).

Authority for Requirement: DNR Construction Permit 78-A-169-S5

NSPS and NESHAP Applicability  
This emission point is subject to NSPS Subpart A – General Provisions and Subpart Y – Standards of Performance for Coal Preparation Plants.

Authority for Requirement: 40 CFR 60 Subpart Y 567 IAC 23.1(2) "v"

Emission Point Characteristics  
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 74
Stack Opening, (inches, dia.): 35.04
Exhaust Flow Rate (scfm): 30,600
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 78-A-169-S5

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

See Appendix A for the CAM Plan.
Emission Point ID Number: EP-010

Associated Equipment

Associated Emission Unit ID Numbers: EU-010; EU-117A
Emissions Control Equipment ID Number: CE-011
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit Descriptions, Raw Material/Fuel and Rated Capacity are listed in the following table:

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Emission Unit Description</th>
<th>Raw Material</th>
<th>Rated Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-010</td>
<td>EU-010</td>
<td>Transfer House #2 - Coal Conveying</td>
<td>Coal</td>
<td>3200.0 ton/hr</td>
</tr>
<tr>
<td></td>
<td>EU-117A</td>
<td>Emergency Reclaim Hopper to Belt 8</td>
<td></td>
<td>1200.0 ton/hr</td>
</tr>
</tbody>
</table>

**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, 20%¹  
Authority for Requirement: DNR Construction Permit 03-A-438-P2  
40 CFR 60 Subpart Y  
567 IAC 23.1(2) "v"

¹Standard is a 6-minute average.

Pollutant: Particulate Matter (PM₁₀)  
Emission Limit(s): 1.05 lb/hr; 0.0037 gr/dscf  
Authority for Requirement: DNR Construction Permit 03-A-438-P2

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 0.0037 gr/dscf  
Authority for Requirement: DNR Construction Permit 03-A-438-P2

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

Operating limits are not required at this time.

**NSPS and NESHAP Applicability**  
This emission point is subject to NSPS Subpart A – General Provisions and Subpart Y – Standards of Performance for Coal Preparation Plants.

Authority for Requirement: 40 CFR 60 Subpart Y  
567 IAC 23.1(2) "v"
**Emission Point Characteristics**

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

Stack Height, (ft, from the ground):  56  
Stack Opening, (inches, dia.): 39  
Exhaust Flow Rate (scfm): 24,500  
Exhaust Temperature (°F): Ambient  
Discharge Style: Vertical Unobstructed  
Authority for Requirement: DNR Construction Permit 03-A-438-P2

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

**Monitoring Requirements**

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

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agency Approved Operation &amp; Maintenance Plan Required?</td>
<td></td>
<td>☑</td>
</tr>
<tr>
<td>Facility Maintained Operation &amp; Maintenance Plan Required?</td>
<td></td>
<td>☑</td>
</tr>
<tr>
<td>Compliance Assurance Monitoring (CAM) Plan Required?</td>
<td></td>
<td>☑</td>
</tr>
</tbody>
</table>

Authority for Requirement: 567 IAC 22.108(3)

*See Appendix A for the CAM Plan.*
Emission Point ID Number: EP-011

Associated Equipment

Associated Emission Unit ID Numbers: EU-011
Emissions Control Equipment ID Number: CE-012
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-011
Emission Unit Description: Transfer House #3 - Coal Conveying
Raw Material/Fuel: Coal
Rated Capacity: 3200.0 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): No VE; 20%
Authority for Requirement: DNR Construction Permit 78-A-171-S2
40 CFR 60 Subpart Y
567 IAC 23.1(2) "v"

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 2.35 lb/hr
Authority for Requirement: DNR Construction Permit 78-A-171-S2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 78-A-171-S2
567 IAC 23.3(2) "a"

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

Operating Limits
A. The baghouse shall be operated and maintained according to the 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. A log of all maintenance activities on the baghouse shall be maintained. This log shall include the date and a description of the activity undertaken.
B. An observation of this emission point shall be made once weekly while operating.
C. A log of the emission point observation shall be maintained. This log shall include the time and date of each observation, identification of the person making the observations and whether any visible emissions were observed.

Authority for Requirement: DNR Construction Permit 78-A-171-S2

NSPS and NESHAP Applicability
This emission point is subject to NSPS Subpart A – General Provisions and Subpart Y – Standards of Performance for Coal Preparation Plants.

Authority for Requirement: 40 CFR 60 Subpart Y
567 IAC 23.1(2) "v"

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 12
Stack Opening, (inches, dia.): 35
Exhaust Flow Rate (scfm): 21,200
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 78-A-171-S2

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

See Appendix A for the CAM Plan.
Emission Point ID Number: EP-013

Associated Equipment

Associated Emission Unit ID Numbers: EU-013
Emissions Control Equipment ID Number: CE-013
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-013
Emission Unit Description: Transfer House #4 - Coal Conveying
Raw Material/Fuel: Coal
Rated Capacity: 3600.0 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): 5%; 20%
Authority for Requirement: DNR Construction Permit 03-A-439-P2
40 CFR 60 Subpart Y
567 IAC 23.1(2) "v"

1 Standard is a 1-hour average.
2 Average period is six (6) minutes.

Pollutant: Particulate Matter (PM$_{10}$)
Emission Limit(s): 1.14 lb/hr; 0.005 gr/dscf
Authority for Requirement: DNR Construction Permit 03-A-439-P2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.005 gr/dscf
Authority for Requirement: DNR Construction Permit 03-A-439-P2

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

Operating Limits
A. The facility is required to schedule a PM$_{10}$ compliance test within thirty (30) days if it exceeds the one (1) hour, 5% BACT opacity limit.
Authority for Requirement: DNR Construction Permit 03-A-439-P2

NSPS and NESHAP Applicability
This emission point is subject to NSPS Subpart A – General Provisions and Subpart Y – Standards of Performance for Coal Preparation Plants.
Authority for Requirement: 40 CFR 60 Subpart Y
Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 50
Stack Opening, (inches, dia.): 39
Exhaust Flow Rate (scfm): 26,500
Exhaust Temperature (°F): 70
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 03-A-439-P2

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

Monitoring Requirements

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

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

Authority for Requirement: 567 IAC 22.108(3)

See Appendix A for the CAM Plan.
Emission Point ID Number: EP-014

Associated Equipment

Associated Emission Unit ID Numbers: EU-014
Emissions Control Equipment ID Number: CE-014
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-014
Emission Unit Description: East Coal Silo #3 - Coal Conveying
Raw Material/Fuel: Coal
Rated Capacity: 3200.0 ton/hr

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MBtu, % opacity, etc.)
*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity
Emission Limit(s): 20% \(^{(1)}\)
Authority for Requirement: DNR Construction Permit 78-A-174-S4
40 CFR 60 Subpart Y
567 IAC 23.1(2) "v"

\(^{(1)}\)If visible emissions are observed, the owner/operator shall 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\(_{10}\))
Emission Limit(s): 1.14 lb/hr
Authority for Requirement: DNR Construction Permit 78-A-174-S4

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 78-A-174-S4
567 IAC 23.3(2) "a"

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

Operational limits are not required at this time.
NSPS and NESHAP Applicability
This emission point is subject to NSPS Subpart A – General Provisions and Subpart Y – Standards of Performance for Coal Preparation Plants.

Authority for Requirement: 40 CFR 60 Subpart Y
567 IAC 23.1(2) "v"

Emission Point Characteristics
_The emission point shall conform to the specifications listed below._

Stack Height, (ft, from the ground): 218
Stack Opening, (inches, dia.): 36
Exhaust Flow Rate (scfm): 26,550
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 78-A-174-S4

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

Monitoring Requirements
_The owner/operator of this equipment shall comply with the monitoring requirements listed below._

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

Authority for Requirement: 567 IAC 22.108(3)

See Appendix A for the CAM Plan.
Emission Point ID Number: EP-015

Associated Equipment

Associated Emission Unit ID Numbers: EU-015
Emissions Control Equipment ID Number: CE-015
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-015
Emission Unit Description: West Coal Silo #3 - Coal Conveying
Raw Material/Fuel: Coal
Rated Capacity: 3200.0 ton/hr

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 20% (1)
Authority for Requirement: DNR Construction Permit 78-A-175-S3
40 CFR 60 Subpart Y
567 IAC 23.1(2) "v"

(1) If visible emissions are observed, the owner/operator shall 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): 0.98 lb/hr
Authority for Requirement: DNR Construction Permit 78-A-175-S3

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 78-A-175-S3
567 IAC 23.3(2) "a"

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

Operating Limits
Operational limits are not required at this time.
NSPS and NESHAP Applicability
This emission point is subject to NSPS Subpart A – General Provisions and Subpart Y – Standards of Performance for Coal Preparation Plants.

Authority for Requirement: 40 CFR 60 Subpart Y
567 IAC 23.1(2) "v"

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 218
Stack Opening, (inches, dia.): 36
Exhaust Flow Rate (scfm): 22,850
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 78-A-175-S3

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

See Appendix A for the CAM Plan.
Emission Point ID Number: EP-018

Associated Equipment

Associated Emission Unit ID Numbers: EU-018
Emissions Control Equipment ID Number: CE-019
Emissions Control Equipment Description: Water Spray/Sweeping & Dust Suppressant
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-018
Emission Unit Description: CCR Haul Road
Raw Material/Fuel: CCR Material
Rated Capacity: 80 Trucks per Day

Applicable Requirements

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

A. The following conditions are required on the haul roads at the facility in order for the roads to meet the BACT emission rates:
   A1. Haul truck loads shall be enclosed or covered;
   A2. In order to protect the NAAQS, the maximum number of trucks associated with ash and FGD hauling (all units) shall not exceed 80 trucks per day.
   A3. For paved roads:
      i. Fugitive emissions of paved haul roads shall be controlled to an effective control efficiency of 80% by either water flushing followed by sweeping or using a street sweeper that is certified to achieve a pick-up efficiency of 80%. The control and record keeping requirements described in Condition Q in the section of Reporting and Recordkeeping shall begin at the same time as the startup of Boiler 4. The control efficiency of 80% shall be achieved by either using a certified sweeper once per day or by water flushing followed by sweeping of the paved haul roads once per day. The water spray rate shall be a minimum of 0.23 gallons per square yard.
      ii. 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) or conditions due to weather, in combination with the application of the water, could create hazardous driving conditions, then the water flushing and sweeping shall be postponed and accomplished as soon after the scheduled date as the conditions preventing the application have abated.
      iii. Water flushing and sweeping need not occur when a rain gage 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.
A4. For unpaved roads:

i. Fugitive emissions from unpaved haul roads shall be controlled by applying a chemical dust suppressant. Applications of the selected chemical dust suppressant and the record keeping requirements described in Condition Q in the section of Reporting and Recordkeeping, shall begin at the same time as the startup of Boiler 4. A control efficiency of 95% shall be maintained on all haul roads. MidAmerican may elect to use any chemical dust suppressant that is capable of achieving the 95% control efficiency. In the event that the manufacturer or distributor of a chemical dust suppressant recommends different amounts of chemical dust suppressant or MidAmerican chooses to use a different chemical dust suppressant, MidAmerican shall notify DNR of the change in application rates and/or chemical dust suppressant and the manufacturer's/distributor's recommendations.

ii. If the selected chemical dust suppressant cannot be applied because the ambient air temperature (as measured at the facility during daylight operating hours) will be less than 35°F (1.7°C) or conditions due to weather, in combination with the application of the chemical dust suppressant, could create hazardous driving conditions, then the chemical dust suppressant application shall be postponed and applied as soon after the scheduled application date as the conditions preventing the application have abated.

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. A log showing the following for haul roads:

A1. The date and number of trucks associated with Units 1, 2, 3 and 4.

A2. Paved roads:

i. Records of either the use of a certified sweeper or the applications shall be maintained and shall include:
   - The dates of each application or use of certified sweeper;
   - The amount of water applied (if applicable);
   - The areas treated or swept by certified sweeper, and
   - The operator's initials.

ii. If water is to be used and is not applied when scheduled then the records should so indicate and provide an explanation.

A3. Unpaved roads:

i. Records of the applications shall be maintained and shall include:
   - The dates of each application;
   - The chemical dust suppressant used;
   - The application intensity (gal/yd²);
   - Dilution ratio;
   - The operator's initials, and
   - Documentation of road and weather conditions, if necessary.

Authority for Requirement: DNR Construction Permit 03-A-425-P4; 75-A-357-P7
**Monitoring Requirements**

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

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agency Approved Operation &amp; Maintenance Plan Required?</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>Facility Maintained Operation &amp; Maintenance Plan Required?</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>Compliance Assurance Monitoring (CAM) Plan Required?</td>
<td>☑</td>
<td></td>
</tr>
</tbody>
</table>

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: EP-019

Associated Equipment

Associated Emission Unit ID Numbers: EU-019A, EU-019B, EU-019C
Emissions Control Equipment ID Number: CE-020
Emissions Control Equipment Description: Water Spray
Continuous Emissions Monitors ID Numbers: None

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Emission Unit Description</th>
<th>Raw Material</th>
<th>Rated Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-019</td>
<td>EU-019A</td>
<td>CCR Monofill Disposal</td>
<td>CCR Material</td>
<td>80 Trucks per Day</td>
</tr>
<tr>
<td></td>
<td>EU-019B</td>
<td>CCR Monofill Grading</td>
<td>CCR Material</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td>EU-019C</td>
<td>CCR Monofill Erosion</td>
<td>CCR Material</td>
<td>122 Acres</td>
</tr>
</tbody>
</table>

**Applicable Requirements**

Fugitive Dust:
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.*

Water wagons shall be used to wet the waste material during disposal site grading activities.


**Monitoring Requirements**

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

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

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: EP-020

Associated Equipment

Associated Emission Unit ID Numbers: EU-020
Emissions Control Equipment ID Number: CE-021
Emissions Control Equipment Description: Overtube with Suction
Continuous Emissions Monitors ID Numbers: None

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Emission Unit Description</th>
<th>Raw Material</th>
<th>Rated Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-020</td>
<td>EU-020</td>
<td>Flyash Truck Loading #3</td>
<td>Flyash</td>
<td>100.0 ton/hr</td>
</tr>
</tbody>
</table>

**Applicable Requirements**

Fugitive Dust:
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.

Operational limits are not 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 22.108(3)
**Emission Point ID Number:** EP-025

**Associated Equipment**

- **Associated Emission Unit ID Numbers:** EU-025
- **Emissions Control Equipment ID Number:** None
- **Emissions Control Equipment Description:** NA
- **Continuous Emissions Monitors ID Numbers:** None

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**Emission Unit vented through this Emission Point:** EU-025
**Emission Unit Description:** Glycol System Expansion Tank
**Raw Material/Fuel:** Ethylene Glycol
**Rated Capacity:** 0.2 gal/hr

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**Applicable Requirements**

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

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

Emission limits are not required at this time.

**Operational Limits & Requirements**

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

Operational limits are not 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 22.108(3)
Emission Point ID Number: EP-027

Associated Equipment

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

Emission Unit vented through this Emission Point: EU-027
Emission Unit Description: Diesel Engine for Fire Pump
Raw Material/Fuel: Diesel
Rated Capacity: 370 HP

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Emission limits are not required at this time.

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

Operational limits are not required at this time.

NESHAP:
The emergency engine is subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE).
According to 40 CFR 63.6590(a)(1)(ii) this compression ignition emergency engine, located at a major source, is an existing stationary RICE as it was constructed prior to June 12, 2006.

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

Operation and Maintenance Requirements 40 CFR 63.6602, 63.6625, 63.6640 and Tables 2c and 6 to Subpart ZZZZ
1. Change oil and filter every 500 hours of operation or annually, whichever comes first. (See 63.6625(i) for the oil analysis option to extend time frame of requirements.)
2. Inspect air cleaner every 1000 hours of operation or annually, whichever comes first, and replace as necessary.
3. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
4. Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and
operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

5. Install a non-resettable hour meter if one is not already installed.
6. Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

Operating Limits 40 CFR 63.6640(f)

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

Recordkeeping Requirements 40 CFR 63.6655

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

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

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

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ

567 IAC 23.1(4)"cz"

Monitoring Requirements

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

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

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: EP-030 and EP-031 (Coal Handling)

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Emission Unit Description</th>
<th>Raw Material</th>
<th>Rated Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-030</td>
<td>EU-030</td>
<td>Stockout Conveyor 7 Coal Conveying</td>
<td>Coal</td>
<td>3500 ton/hr</td>
</tr>
<tr>
<td>EP-031</td>
<td>EU-031A</td>
<td>Stacker/Reclaimer</td>
<td>Coal</td>
<td>3500 ton/hr</td>
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<tr>
<td></td>
<td>EU-031B</td>
<td>Stacker/Reclaimer</td>
<td>Coal</td>
<td>3500 ton/hr</td>
</tr>
<tr>
<td></td>
<td>EU-031C</td>
<td>Stacker/Reclaimer</td>
<td>Coal</td>
<td>3500 ton/hr</td>
</tr>
<tr>
<td></td>
<td>EU-031D</td>
<td>Stacker/Reclaimer</td>
<td>Coal</td>
<td>1600 ton/hr</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Emission Unit Description</th>
<th>CE&amp; Description</th>
<th>CEM</th>
<th>IDNR Construction Permit</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-031</td>
<td>EU-031A</td>
<td>Stacker/Reclaimer</td>
<td>CE-005 Dust Suppressant</td>
<td>None</td>
<td>03-A-425-P4</td>
</tr>
<tr>
<td></td>
<td>EU-031B</td>
<td>Stacker/Reclaimer</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EU-031C</td>
<td>Stacker/Reclaimer</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EU-031D</td>
<td>Stacker/Reclaimer</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Applicable Requirements**

**Operational Limits & Requirements**

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

A. Stacker conveyor:

   A1. Fugitive emissions shall be controlled by applying a chemical dust suppressant. Applications of the selected chemical dust suppressant and the record keeping requirements described in Condition R in the section of *Reporting and Recordkeeping* shall begin at the same time as the startup of Boiler 4. A control efficiency of 95% shall be maintained. MidAmerican may elect to use any chemical dust suppressant that is capable of achieving the 95% control efficiency. In the event that the manufacturer or distributor of a chemical dust suppressant recommends different amounts of chemical dust suppressant or MidAmerican chooses to use a different chemical dust suppressant, MidAmerican shall notify DNR of the change in application rates and/or chemical dust suppressant and the manufacturer's/distributor's recommendations.

   A2. If the selected chemical dust suppressant cannot be applied because the ambient air temperature (as measured at the facility during daylight operating hours) will be less than 35°F (1.7°C) or other conditions due to weather cause the chemical dust suppressant to not be applied then the chemical dust suppressant application shall be postponed and applied as soon after the scheduled application date as the conditions preventing the application have abated.

   A3. The application of chemical dust suppressant is not required when rail unloading directly from the train to the plant silos without first depositing to a pile.
B. Transfer to active pile:

B1. Fugitive emissions shall be controlled by applying a chemical dust suppressant. Applications of the selected chemical dust suppressant and the record keeping requirements described in Condition R in the section of Reporting and Recordkeeping shall begin at the same time as the startup of Boiler 4. A control efficiency of 95% shall be maintained. MidAmerican may elect to use any chemical dust suppressant that is capable of achieving the 95% control efficiency. In the event that the manufacturer or distributor of a chemical dust suppressant recommends different amounts of chemical dust suppressant or MidAmerican chooses to use a different chemical dust suppressant, MidAmerican shall notify DNR of the change in application rates and/or chemical dust suppressant and the manufacturer's/distributor's recommendations.

B2. If the selected chemical dust suppressant cannot be applied because the ambient air temperature (as measured at the facility during daylight operating hours) will be less than 35°F (1.7°C) or other conditions due to weather cause the chemical dust suppressant to not be applied then the chemical dust suppressant application shall be postponed and applied as soon after the scheduled application date as the conditions preventing the application have abated.

C. Bucket reclaim:

C1. Fugitive emissions shall be controlled by applying a chemical dust suppressant. Applications of the selected chemical dust suppressant and the record keeping requirements described in Condition R in the section of Reporting and Recordkeeping shall begin at the same time as the startup of Boiler 4. A control efficiency of 95% shall be maintained. MidAmerican may elect to use any chemical dust suppressant that is capable of achieving the 95% control efficiency. In the event that the manufacturer or distributor of a chemical dust suppressant recommends different amounts of chemical dust suppressant or MidAmerican chooses to use a different chemical dust suppressant, MidAmerican shall notify DNR of the change in application rates and/or chemical dust suppressant and the manufacturer's/distributor's recommendations.

C2. If the selected chemical dust suppressant cannot be applied because the ambient air temperature (as measured at the facility during daylight operating hours) will be less than 35°F (1.7°C) or other conditions due to weather cause the chemical dust suppressant to not be applied then the chemical dust suppressant application shall be postponed and applied as soon after the scheduled application date as the conditions preventing the application have abated.

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 log showing the following for the volume sources associated with this project:

A. Stacker conveyor:
   A1. Records of the applications shall be maintained and shall include:
   • The dates of each application,
   • The chemical dust suppressant used,
   • The application intensity (gal/yd²),
   • Dilution ratio,
   • The operator's initials, and
   • Documentation of weather conditions, if necessary.
   A2. If the selected chemical dust suppressant is not applied as planned, then the records should so indicate and provide an explanation.

B. Transfer to active pile:
   B1. Records of the applications shall be maintained and shall include:
   • The dates of each application;
   • The chemical dust suppressant used;
   • The application intensity (gal/yd²);
   • Dilution ratio;
   • The operator's initials, and
   • Documentation of weather conditions, if necessary.
   B2. If the selected chemical dust suppressant is not applied as planned, then the records should so indicate and provide an explanation.

C. Bucket reclaim:
   C1. Records of the applications shall be maintained and shall include:
   • The dates of each application;
   • The chemical dust suppressant used;
   • The application intensity (gal/yd²);
   • Dilution ratio;
   • The operator's initials, and
   • Documentation of weather conditions, if necessary.
   C2. If the selected chemical dust suppressant is not applied as planned, then the records should so indicate and provide an explanation

### Monitoring Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Yes ☐ No ☒</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agency Approved Operation &amp; Maintenance Plan Required?</td>
<td>Yes ☐ No ☒</td>
</tr>
<tr>
<td>Facility Maintained Operation &amp; Maintenance Plan Required?</td>
<td>Yes ☐ No ☒</td>
</tr>
<tr>
<td>Compliance Assurance Monitoring (CAM) Plan Required?</td>
<td>Yes ☐ No ☒</td>
</tr>
</tbody>
</table>

Authority for Requirement: 567 IAC 22.108(3)
**Emission Point ID Number:** EP-114

**Associated Equipment**

- Associated Emission Unit ID Numbers: EU-114
- Emissions Control Equipment ID Number: None
- Emissions Control Equipment Description: NA
- Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-114

Emission Unit Description: Unit 3 Emergency Generator

Raw Material/Fuel: #2 Fuel Oil

Rated Capacity: 1,214 Brake Horsepower

**Applicable Requirements**

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

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

Pollutant: Opacity

- Emission Limit(s): 40% ¹
- Authority for Requirement: DNR Construction Permit 11-A-610
  - 567 IAC 23.3(2) "d"

¹An 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): 0.12 lb/hr
- Authority for Requirement: DNR Construction Permit 11-A-610

Pollutant: Particulate Matter (PM)

- Emission Limit(s): 0.12 lb/hr; 0.1 gr/dscf
- Authority for Requirement: DNR Construction Permit 11-A-610
  - 567 IAC 23.3(2) "a"

Pollutant: Sulfur Dioxide (SO₂)

- Emission Limit(s): 0.01 lb/hr
- Authority for Requirement: DNR Construction Permit 11-A-610

Pollutant: Nitrogen Oxides (NOₓ)

- Emission Limit(s): 13.86 lb/hr
- Authority for Requirement: DNR Construction Permit 11-A-610

Pollutant: Carbon Monoxide (CO)

- Emission Limit(s): 0.62 lb/hr
- Authority for Requirement: DNR Construction Permit 11-A-610
Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Limits

A. This engine is limited to burning diesel fuel oil only.
B. This engine is limited to operating a maximum of 5685 hours in any rolling 12-month period.
C. This engine is limited to operating for emergency situations and required testing and maintenance. In accordance with §60.4211(e), the engine is limited to operating a maximum of 100 hours per year for maintenance checks and readiness testing. This engine is not allowed to operate as a peak shaving unit.
D. In accordance with §60.4207(b), the diesel fuel purchased for use in this engine shall meet the following specifications from 40 CFR §80.510(b) for nonroad diesel fuel:
   D1.a maximum sulfur content of 15 ppm (0.0015%) by weight; and
   D2.a minimum cetane index of 40 or a maximum aromatic content of 35 percent by volume.
E. In accordance with §60.4209(a), the engine shall be equipped with a non-resettable hour meter.
F. In accordance with §60.4211(a), this engine shall be operated and maintained in accordance with the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the manufacturer. The owner or operator may only change engine settings that are permitted by the manufacturer.

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

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

Authority for Requirement: DNR Construction Permit 11-A-610
NSPS and NESHAP Applicability

A. This engine is subject to NSPS Subpart III – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines. The engine is an emergency stationary internal combustion engine that is not a fire pump engine.

A1. In accordance with §60.4211(c), the engine must be certified by its manufacturer to comply with the emissions standards from §60.4205 (b) and §60.4202 (a)(2). The emission standards that the engine must be certified by the manufacturer to meet are:

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Emission Standard</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Particulate Matter (PM)</td>
<td>0.20 grams/kW-hr</td>
<td>§89.112 Table 1</td>
</tr>
<tr>
<td>NMHC (1) + NOx</td>
<td>6.4 grams/kW-hr</td>
<td>§89.112 Table 1</td>
</tr>
<tr>
<td>Carbon Monoxide (CO)</td>
<td>3.5 grams/kW-hr</td>
<td>§89.112 Table 1</td>
</tr>
<tr>
<td>Opacity – acceleration mode</td>
<td>20%</td>
<td>§89.113 (a)(1)</td>
</tr>
<tr>
<td>Opacity – lugging mode</td>
<td>15%</td>
<td>§89.113 (a)(2)</td>
</tr>
<tr>
<td>Opacity – peaks in acceleration or lugging modes</td>
<td>50%</td>
<td>§89.113 (a)(3)</td>
</tr>
</tbody>
</table>

(1) Non-methane hydrocarbon

A2. In accordance with §60.4211(c), the owner or operator must comply with the required NSPS emissions standards by purchasing an engine certified by its manufacturer to meet the applicable emission standards for the same model year and engine power. The engine must be installed and configured to the manufacturer’s specifications. Provided these requirements are satisfied, no further demonstration of compliance with the emission standards from §60.4205 (b) and §60.4202 (a)(2) is required.

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

Authority for Requirement: 40 CFR 60 Subpart III
40 CFR 63 Subpart ZZZZ
567 IAC 23.1(2) "yyy"
567 IAC 23.1(4) "cz"
**Emission Point Characteristics**  
*The emission point shall conform to the specifications listed below.*

- Stack Height, (ft, from the ground): 48.75
- Stack Opening, (inches, dia.): 24
- Exhaust Flow Rate (scfm): 2,265
- Exhaust Temperature (°F): 955
- Discharge Style: Horizontal Discharge

Authority for Requirement: DNR Construction Permit 11-A-610

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

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

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

Authority for Requirement: 567 IAC 22.108(3)
**Emission Point ID Number: EP-117B**

**Associated Equipment**

Associated Emission Unit ID Numbers: EU-117B  
Emissions Control Equipment ID Number: CE-005  
Emissions Control Equipment Description: Dust Suppressant  
Continuous Emissions Monitors ID Numbers: None

---

Emission Unit vented through this Emission Point: EU-117B  
Emission Unit Description: Emergency Reclaim Hopper – Coal Dumping  
Raw Material/Fuel: Coal  
Rated Capacity: 1,200 ton/hour

**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):** 20%  
**Authority for Requirement:** DNR Construction Permit 78-A-172-S1  
567 IAC 23.1(2) "v"  
40 CFR 60 Subpart Y

**Pollutant: Particulate Matter (PM$_{10}$)**  
**Emission Limit(s):** 0.17 lb/hr  
**Authority for Requirement:** DNR Construction Permit 78-A-172-S1

**Operational Limits & Requirements**

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

No operating limits are required on this emission unit at this time.

**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.*

No operating condition monitoring is required on this emission unit at this time.

**NSPS and NESHAP Applicability**

This emission point is subject to NSPS Subpart A – General Provisions and Subpart Y – Standards of Performance for Coal Preparation Plants.

**Authority for Requirement:** 40 CFR 60 Subpart Y  
567 IAC 23.1(2) "v"
**Emission Point Characteristics**
*The emission point shall conform to the specifications listed below.*

There is no stack associated with this emission unit as it vents internally to a building.

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

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

Authority for Requirement: 567 IAC 22.108(3)
**Emission Point ID Number:** EP-141

**Associated Equipment**

Associated Emission Unit ID Numbers: EU-141
Emissions Control Equipment ID Number: CE-141A, CE-141B, CE141C, CE141D, CD141E
Emissions Control Equipment Description: See Table-1 below
Continuous Emissions Monitors ID Numbers: See Table-2 below

---

**Emission Unit vented through this Emission Point:** EU-141

Emission Unit Description: Unit 4 Boiler

Raw Material/Fuel: Subbituminous Coal; #2 Fuel Oil

Rated Capacity: 7,675 MMBtu/hr

---

### Table -1

<table>
<thead>
<tr>
<th>CE Number</th>
<th>Control Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE-141A</td>
<td>Baghouse</td>
</tr>
<tr>
<td>CE-141B</td>
<td>Selective Catalytic Reduction (SCR)</td>
</tr>
<tr>
<td>CE-141C</td>
<td>Flue Gas Desulfurization (FGD)</td>
</tr>
<tr>
<td>CE-141D</td>
<td>Low NO&lt;sub&gt;x&lt;/sub&gt; Burner (LNB)</td>
</tr>
<tr>
<td>CE-141E</td>
<td>Activated Carbon Injection (ACI)</td>
</tr>
</tbody>
</table>

### Table -2

<table>
<thead>
<tr>
<th>CEM</th>
<th>Pollutant Monitored</th>
<th>Date of Specification Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME004A</td>
<td>SO&lt;sub&gt;2&lt;/sub&gt;</td>
<td>2007-04-27</td>
</tr>
<tr>
<td>ME004AL</td>
<td>SO&lt;sub&gt;2&lt;/sub&gt;</td>
<td>2007-04-27</td>
</tr>
<tr>
<td>ME004B</td>
<td>NO&lt;sub&gt;x&lt;/sub&gt;</td>
<td>2007-04-27</td>
</tr>
<tr>
<td>ME004BL</td>
<td>NO&lt;sub&gt;x&lt;/sub&gt;</td>
<td>2007-04-27</td>
</tr>
<tr>
<td>ME004C</td>
<td>Diluent CO&lt;sub&gt;2&lt;/sub&gt;</td>
<td>2007-04-27</td>
</tr>
<tr>
<td>ME004D</td>
<td>Flow</td>
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<tr>
<td>ME004E</td>
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<td>ME004F</td>
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<td>CO</td>
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<td>ME004G</td>
<td>SO&lt;sub&gt;2&lt;/sub&gt;</td>
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<tr>
<td>ME004H</td>
<td>Diluent CO&lt;sub&gt;2&lt;/sub&gt;</td>
<td>2007-04-27</td>
</tr>
</tbody>
</table>
### 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.*

#### Opacity

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>5%</td>
<td>3-hour average</td>
<td>COMS</td>
<td>DNR Construction Permit 03-A-425-P4</td>
<td>BACT Limit</td>
</tr>
<tr>
<td>20%</td>
<td>6-Minute Average</td>
<td>COMS</td>
<td>DNR Construction Permit 03-A-425-P4</td>
<td>None</td>
</tr>
<tr>
<td>20%(^{1})</td>
<td>6-Minute Average</td>
<td>COMS</td>
<td>DNR Construction Permit 03-A-425-P4 40 CFR 60 Subpart Da 567 IAC 23.1(2) &quot;z&quot;</td>
<td>None</td>
</tr>
</tbody>
</table>

\(^{1}\) Opacity shall not exceed 20% (6-minute average), except for one (1) 6-minute period per hour of not more than 27% opacity. See 40 CFR §60.42Da(b).

#### Particulate Matter (PM\(_{10}\))

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.025 lb/MMBtu</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-425-P4</td>
<td>BACT</td>
</tr>
<tr>
<td>191.9 lb/hr</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-425-P4</td>
<td>NAAQS</td>
</tr>
</tbody>
</table>

#### Particulate Matter (PM)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.027 lb/MMBtu</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-425-P4</td>
<td>BACT</td>
</tr>
<tr>
<td>13 ng/J Heat Input (0.03 lb/MMBtu)(^{1,2})</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-425-P4 40 CFR 60 Subpart Da 567 IAC 23.1(2) &quot;z&quot;</td>
<td>None</td>
</tr>
<tr>
<td>0.018 lb/MMBtu(^{2})</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-425-P4</td>
<td>Case by case MACT</td>
</tr>
</tbody>
</table>

\(^{1}\) See 40 CFR §60.42Da(a) for detailed calculation.  
\(^{2}\) Federal PM limit includes only filterable particulate matter.
### Sulfur Dioxide (SO₂)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1 lb/MMBtu¹</td>
<td>30-Day Rolling Average</td>
<td>CEMS</td>
<td>DNR Construction Permit 03-A-425-P4</td>
<td>BACT</td>
</tr>
<tr>
<td>3,362 ton/yr</td>
<td>12-Month Rolling Total</td>
<td>CEMS</td>
<td>DNR Construction Permit 03-A-425-P4</td>
<td>BACT</td>
</tr>
<tr>
<td>520 ng/J Heat Input (1.20 lb/MMBtu)²</td>
<td>30-Day Rolling Average</td>
<td>CEMS</td>
<td>DNR Construction Permit 03-A-425-P4 40 CFR 60 Subpart Da 567 IAC 23.1(2) &quot;z&quot;</td>
<td>NA</td>
</tr>
<tr>
<td>1,050.0 lb/hr</td>
<td>3-Hour Rolling Average</td>
<td>CEMS</td>
<td>DNR Construction Permit 03-A-425-P4</td>
<td>NAAQS</td>
</tr>
</tbody>
</table>

¹ Does not include periods of startup, shutdown, and malfunction.

² 520 ng/J = 1.20 lb/MMBtu. This was derived from solid fossil fuel. See Construction Permit 03-A-425-P4 Section 10c (page 6) or 40 CFR §60.43Da(a) for sulfur dioxide (SO₂) for detailed calculations.

### Nitrogen Oxides (NOₓ)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.07 lb/MMBtu¹</td>
<td>30-Day Rolling Average</td>
<td>CEMS</td>
<td>DNR Construction Permit 03-A-425-P4</td>
<td>BACT</td>
</tr>
<tr>
<td>2,353 ton/yr</td>
<td>12-Month Rolling Total</td>
<td>CEMS</td>
<td>DNR Construction Permit 03-A-425-P4</td>
<td>BACT</td>
</tr>
<tr>
<td>200 ng/J Gross Energy Output (1.6 lb/MWh gross)²</td>
<td>30-Day Rolling Average</td>
<td>CEMS</td>
<td>DNR Construction Permit 03-A-425-P4 40 CFR 60 Subpart Da 567 IAC 23.1(2) &quot;z&quot;</td>
<td>NA</td>
</tr>
<tr>
<td>573.3 lb/hr</td>
<td>Calendar Month Average</td>
<td>CEMS</td>
<td>DNR Construction Permit 03-A-425-P4</td>
<td>NAAQS</td>
</tr>
</tbody>
</table>

¹ Does not include periods of startup, shutdown, and malfunction.

² This was derived from solid fossil fuel. See Construction Permit 03-A-425-P4 Section 10c (page 6) or 40 CFR §60.44Da(d)(1) for NOₓ for detailed calculations.

### Volatile Organic Compounds (VOC)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0036 lb/MMBtu</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-425-P4</td>
<td>BACT</td>
</tr>
<tr>
<td>121 ton/yr</td>
<td>12-Month Rolling Total</td>
<td>Recordkeeping</td>
<td>DNR Construction Permit 03-A-425-P4</td>
<td>BACT</td>
</tr>
<tr>
<td>Parameter</td>
<td>Limit</td>
<td>Averaging Period</td>
<td>Compliance Demonstration Method</td>
<td>Authority for Requirement</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>----------------</td>
<td>-------------------------</td>
<td>---------------------------------</td>
<td>---------------------------------------------------------------</td>
</tr>
<tr>
<td>Carbon Monoxide (CO)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Limit</td>
<td>0.154 lb/MMBtu</td>
<td>Calendar Day Average</td>
<td>CEMS</td>
<td>DNR Construction Permit 03-A-425-P4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5,177 ton/yr</td>
<td>12-Month Rolling Total</td>
<td>CEMS</td>
<td>DNR Construction Permit 03-A-425-P4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,966.0 lb/hr</td>
<td>1-Hour Standard</td>
<td>CEMS</td>
<td>DNR Construction Permit 03-A-425-P4</td>
</tr>
<tr>
<td>Lead (Pb)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Limit</td>
<td>2.6×10⁻⁵ lb/MMBtu</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-425-P4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.20 lb/hr</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-425-P4</td>
</tr>
<tr>
<td>Fluorides (F)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Limit</td>
<td>9×10⁻⁴ lb/MMBtu</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-425-P4</td>
</tr>
<tr>
<td>Total Reduced Sulfur (S)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Limit</td>
<td>0.001 lb/MMBtu</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-425-P4</td>
</tr>
<tr>
<td>Sulfuric Acid Mist (H₂SO₄)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Limit</td>
<td>0.00421 lb/MMBtu</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-425-P4</td>
</tr>
</tbody>
</table>
Mercury (Hg)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.013 lb/hr&lt;sup&gt;1&lt;/sup&gt;</td>
<td>30-Day Rolling Average</td>
<td>CEMS</td>
<td>DNR Construction Permit 03-A-425-P4</td>
<td>Case-by Case MACT</td>
</tr>
</tbody>
</table>

<sup>1</sup>This limit is for total mercury emissions. Total mercury includes particulate bound mercury and both forms of vapor phase mercury (elemental and oxidized).

Hydrogen Chloride (HCl)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.9×10⁻³ lb/MMBtu</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-425-P4</td>
<td>Case-by Case MACT</td>
</tr>
</tbody>
</table>

Total Selected Metals (TSM)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.04×10⁻⁴ lb/MMBtu&lt;sup&gt;1&lt;/sup&gt;</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-425-P4</td>
<td>Case-by Case MACT</td>
</tr>
</tbody>
</table>

<sup>1</sup>Total Selected Metals (TSM) means the combination of the following metallic HAP: arsenic, beryllium, cadmium, chromium, lead, manganese, nickel, and selenium.

Acetaldehyde

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.8×10⁻⁶ lb/MMBtu&lt;sup&gt;1&lt;/sup&gt;</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-425-P4</td>
<td>Case-by Case MACT</td>
</tr>
</tbody>
</table>

Benzene

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.96×10⁻⁵ lb/MMBtu&lt;sup&gt;1&lt;/sup&gt;</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-425-P4</td>
<td>Case-by Case MACT</td>
</tr>
</tbody>
</table>

Isophorone

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.45×10⁻⁶ lb/MMBtu&lt;sup&gt;1&lt;/sup&gt;</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-425-P4</td>
<td>Case-by Case MACT</td>
</tr>
</tbody>
</table>
Toluene

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>$3.72 \times 10^{-4}$</td>
<td>3-Test Run</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-425-P4</td>
<td>Case-by Case MACT</td>
</tr>
</tbody>
</table>

$^1$ The 112(g) emission limits will be reevaluated after actual test data has been gathered in order to determine if a new emission limit needs to be established whether that be higher or lower than the current emission limit.

**Operational Limits & Requirements**

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

**Operating Limits**

A. This emission unit shall be limited to firing on coal and #2 fuel oil (for light off, startup, and flame stabilization).

B. The sulfur (S) content of the fuel used shall not exceed 0.625 lbs of S/MBTU.

C. Per 40 CFR §60.42Da(a)(2), particulate matter (federal) emissions shall not exceed 1% of the potential combustion concentration (99% reduction) when combusting coal.

D. Per 40 CFR §60.43Da(a)(1) and 40 CFR §60.43Da(a)(2), sulfur dioxide emissions shall not exceed:
   
   D1. $1.520 \, \text{ng/J} \, (1.2 \, \text{lb/MMBTU})$ heat input and 10% of the potential combustion concentration (90% reduction) when combusting coal, or
   
   D2. $30\%$ of the potential combustion concentration (70% reduction), when emissions are less than $260 \, \text{ng/J} \, (0.60 \, \text{lb/MMBTU})$ heat input. Compliance with this standard is determined on a 30-day rolling average basis.

E. Per 40 CFR §60.48a(d), during emergency conditions an affected facility with a malfunctioning flue gas desulfurization system may be operated if sulfur dioxide emissions are minimized by:

   E1. Operating all operable flue gas desulfurization system modules, and bringing back into operation any malfunctioned module as soon as repairs are completed;
   
   E2. Bypassing flue gases around only those flue gas desulfurization system modules that have been taken out of operation because they were incapable of any sulfur dioxide emission reduction or which would have suffered significant physical damage if they had remained in operation, and
   
   E3. Designing, constructing, and operating a spare flue gas desulfurization system module for an affected facility larger than 365 MW (1,250 million Btu/hr) heat input (approximately 125 MW electrical output capacity). The Administrator may at his discretion require the owner or operator within 60 days of notification to demonstrate spare module capability. To demonstrate this capability, the owner or operator must demonstrate compliance with the appropriate requirements under paragraph (a), (b), (d), (e), and (h) under 60 CFR §60.43a for any period of operation lasting from 24 hours to 30 days when:
   
   i. Any one flue gas desulfurization module is not operated;
   
   ii. The affected facility is operating at the maximum heat input rate;
   
   iii. The fuel fired during the 24-hour to 30-day period is representative of the type
and average sulfur content of fuel used over a typical 30-day period, and

iv. The owner or operator has given the Administrator at least 30 days notice of the date and period of time over which the demonstration will be performed.

F. The owner or operator shall submit the written reports required under NSPS Subparts A and Subpart Da to the Administrator semiannually for each six-month period. All semiannual reports shall be postmarked by the 30th day following the end of each six-month period.

G. The minimum sorbent feed rate of the Flue Gas Desulfurization System shall be 0.40 lbs of lime/lb of inlet SO$_2$ based on 90% available CaO in the lime, expressed as a three (3) hour average except for eight (8) hours per calendar month in which the three (3) hour average minimum sorbent feed rate may be less than 0.40 lbs of lime/lb of inlet SO$_2$.

H. The minimum ammonia feed rate of the Selective Catalytic Reduction (SCR) system shall be 0.43 lbs of urea per pound of inlet SCR NO$_x$, expressed as a thirty (30) day rolling average.

I. The minimum halogenated activated carbon injection rate of the Activated Carbon Injection (ACI) system shall be 1.2 pounds of halogenated activated carbon per million standard cubic feet (MMft$^3$ or MMCF) of exhaust gas, expressed as a thirty (30) day rolling average.

J. The owner or operator may, but is not required to, treat the coal burned in this unit with chemicals containing additives including a mineral composite of calcium silicate components and other calcium compounds containing iron and aluminum.

K. A bag leak detection system must be installed to meet the following criteria:

K1. At least one detector must be located in each compartment of the baghouse.

K2. The bag leak detection system must be installed, operated, calibrated, and maintained in a manner consistent with the manufacturer’s written specifications and recommendations and in accordance with the guidance provided in "Fabric Filter Bag Leak Detection Guidance," EPA-454/R-98-015, September 1997.

K3. The bag leak detection system must be certified by the manufacturer to be capable of detecting particulate matter emissions at concentrations of 10 milligrams per actual cubic meter or less.

K4. The bag leak detection system sensor must provide output of relative or absolute particulate matter loadings.

K5. The bag leak detection system must be equipped with a device to continuously record the output signal from the sensors.

K6. The bag leak detection system must be equipped with an alarm system that will sound automatically when an increase in relative particulate matter emissions over a preset level is detected. The alarm must be located where it is easily heard by plant operating personnel.

K7. The system’s instrumentation and alarm may be shared among detectors.

K8. The system’s alarm shall sound no more than 5% of the operating time during a 6-month period.

L. Within sixty (60) days of Departmental approval of the last required test results from construction permit 03-A-425-P4 for acetaldehyde, benzene, isophorone, and toluene the owner or operator shall submit the following to the Department:

L1. An analysis for acetaldehyde, benzene, isophorone, and toluene to establish new 112(g) case-by-case MACT limits for those pollutants. This analysis shall include:
i. A summary of each test.
ii. The result of each individual run.
iii. All outliers in the data set and the methodology used to establish outliers.
iv. The average of all runs conducted with the outliers removed.
v. The standard deviation of all runs conducted with the outliers removed.
vi. The upper bound 95% confidence level of all runs conducted with the outliers removed. The formula used shall be:

\[
95\% = \text{avg} + t \frac{S}{\sqrt{n}}
\]

where:
- \( \text{avg} \) = average of the test runs
- \( S \) = standard deviation of the test runs
- \( t \) = percentage point of the \( t \) distribution with \( n-1 \) degrees of freedom
- \( n \) = number of test runs

L2. An analysis showing the correlation (or lack thereof) between CO and the organic HAPs that were tested.

L3. A request to establish the 112(g) case-by-case limits for organic HAP emissions based on the testing conducted and the required analysis.

M. The waste material collected by the fabric filter and stored in the FGD waste silo system shall be processed through a pug-mill during loadout to increase the material moisture content to a minimum of 20%. The owner or operator shall conduct daily testing of the moisture content of the FGD waste material. These requirements do not apply to waste material being sold for beneficial use.

N. The owner or operator is allowed, but not required, to add an aqueous calcium bromide chemical and/or an aqueous calcium chloride chemical to the coal prior to combustion for added mercury (Hg) control.

O. This emission unit is subject to all applicable operating limits set forth in NSPS Subparts A (40 CFR §60.1 – 40 CFR §63.19) and Da (40 CFR §60.40Da – 40 CFR §60.52Da) not specifically listed in this permit.

**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 date and an analysis showing the sulfur content and heat input representative of the coal burned for that day.

B. Per 40 CFR §60.51Da(a), the performance test data from the initial performance test and from the performance evaluation of the continuous monitors (including the transmissometer) for NO\(_x\), SO\(_2\), and PM emissions shall be submitted to the Administrator.

C. Per 40 CFR §60.51Da(b), the following information for NO\(_x\) and SO\(_2\) shall be reported to the Administrator for each twenty-four (24) hour period:
   C1. Calendar date;
   C2. The average sulfur dioxide and nitrogen oxide emission rates (ng/J or lb/million Btu) for each thirty (30) successive boiler operating days, ending with the last thirty (30) day period in the quarter; reasons for non-compliance with the emission standards;
and, description of corrective actions taken;

C3. Percent reduction of the potential combustion concentration of sulfur dioxide for each thirty (30) successive boiler operating days, ending with the last thirty (30) day period in the quarter; reasons for non-compliance with the standard; and, description of corrective actions taken;

C4. Identification of the boiler operating days for which pollutant or diluent data have not been obtained by an approved method for at least eighteen (18) hours of operation of the facility; justification for not obtaining sufficient data; and description of corrective actions taken;

C5. Identification of the times when emissions data have been excluded from the calculation of average emission rates because of startup, shutdown, malfunction (NOx only), emergency conditions (SO2 only), or other reasons, and justification for excluding data for reasons other than startup, shutdown, malfunction, or emergency conditions;

C6. Identification of "F" factor used for calculations, method of determination, and type of fuel combusted;

C7. Identification of times when hourly averages have been obtained based on manual sampling methods;

C8. Identification of the times when the pollutant concentration exceeded full span of the continuous monitoring system;

C9. Description of any modifications to the continuous monitoring system which could affect the ability of the continuous monitoring system to comply with Performance Specifications 2 or 3:

D. Per 40 CFR §60.51Da(c), if the minimum quantity of emission data as required by 40 CFR §60.49Da is not obtained for any 30 successive boiler operating days, the following information obtained under the requirements of 40 CFR §60.48a(h) shall be reported to the Administrator for that thirty (30) day period:

D1. The number of hourly averages available for outlet emission rates (n_o) and inlet emission rates (n_i) as applicable.

D2. The standard deviation of hourly averages for outlet emission rates (s_o) and inlet emission rates (s_i) as applicable.

D3. The lower confidence limit for the mean outlet emission rate (E_o*) and the upper confidence limit for the mean inlet emission rate (E_i*) as applicable.

D4. The applicable potential combustion concentration.

D5. The ratio of the upper confidence limit for the mean outlet emission rate (E_o*) and the allowable emission rate (Estd) as applicable.

E. Per 40 CFR §60.51Da(d), if any standards under 40 CFR §60.43Da are exceeded during emergency conditions because of control system malfunction, the owner or operator of the affected facility shall submit a signed statement:

E1. Indicating if emergency conditions existed and requirements under §60.48Da(d) were met during each period, and

E2. Listing the following information:
   i. Time periods the emergency condition existed;
   ii. Electrical output and demand on the owner or operator's electric utility system and the affected facility;
   iii. Amount of power purchased from interconnected neighboring utility companies
during the emergency period;
iv. Percent reduction in emissions achieved;
v. Atmospheric emission rate (ng/J) of the pollutant discharged; and
vi. Actions taken to correct control system malfunction

F. Per 40 CFR §60.51Da(e), if fuel pretreatment credit toward the sulfur dioxide emission standard under 40 CFR §60.43Da is claimed, the owner or operator of the affected facility shall submit a signed statement:
F1. Indicating what percentage cleaning credit was taken for the calendar quarter, and whether the credit was determined in accordance with the provisions of 40 CFR §60.50Da and Method 19 (appendix A); and
F2. Listing the quantity, heat content, and date each pretreated fuel shipment was received during the previous quarter; the name and location of the fuel pretreatment facility; and the total quantity and total heat content of all fuels received at the affected facility during the previous quarter.

G. Per 40 CFR §60.51Da(f), any periods for which opacity, sulfur dioxide or nitrogen oxides emissions data are not available, the owner or operator of the affected facility shall submit a signed statement indicating if any changes were made in operation of the emission control system during the period of data unavailability. Operations of the control system and affected facility during periods of data unavailability are to be compared with operation of the control system and affected facility before and following the period of data unavailability.

H. Per 40 CFR §60.51Da(h), the owner or operator of the affected facility shall submit a signed statement indicating whether:
H1. The required continuous monitoring system calibration, span, and drift checks or other periodic audits have or have not been performed as specified.
H2. The data used to show compliance was or was not obtained in accordance with approved methods and procedures of this part and is representative of plant performance.
H3. The minimum data requirements have or have not been met; or, the minimum data requirements have not been met for errors that were unavoidable.
H4. Compliance with the standards has or has not been achieved during the reporting period.

I. Per 40 CFR §60.51Da(i), for the purposes of the reports required under 40 CFR §60.7, periods of excess emissions are defined as all 6-minute periods during which the average opacity exceeds the applicable opacity standards under 40 CFR §60.42Da(b). Opacity levels in excess of the applicable opacity standard and the date of such excesses are to be submitted to the Administrator each calendar quarter.

J. Per 40 CFR §60.51Da(j), owner or operator shall submit the written reports required under 40 CFR §60.51Da and 40 CFR 60, Subpart A to the Administrator semiannually for each six (6) month period. All semiannual reports shall be postmarked by the thirtieth day following the end of each six (6) month period.

K. Per 40 CFR §60.51Da(k), the owner or operator of an affected facility may submit electronic quarterly reports for SO$_2$ and/or NO$_x$ and/or opacity in lieu of submitting the written reports required under 40 CFR §60.51Da(b) and 40 CFR §60.51Da(i). The format of each quarterly electronic report shall be coordinated with the permitting authority. The electronic report(s) shall be submitted no later than 30 days after the end of the calendar
quarter and shall be accompanied by a certification statement from the owner or operator, indicating whether compliance with the applicable emission standards and minimum data requirements of this subpart was achieved during the reporting period. Before submitting reports in the electronic format, the owner or operator shall coordinate with the permitting authority to obtain their agreement to submit reports in this alternative form.

L. This emission unit is subject to all applicable recordkeeping and reporting requirements set forth in NSPS Subparts A (40 CFR §60.1 – 40 CFR §63.19) and Da (40 CFR §60.40Da – 40 CFR §60.52Da) not specifically listed in this permit.

M. The sorbent feed rate of the Flue Gas Desulfurization System (in lb/lb) expressed as a three (3) hour rolling average.

N. The urea feed rate of the SCR system (in lb/lb) expressed as a thirty (30) day rolling average.

O. The activated carbon feed rate of the ACI system (in lb/MMft$^3$) expressed as a thirty (30) day rolling average.

P. The following records must be maintained from the bag leak detection system:
   P1. The date, time and duration of each system alarm.
   P2. The time corrective action was initiated and completed.
   P3. A brief description of the cause of the alarm and the corrective action.
   P4. A record of the percent of operating time during each 6-month period that the alarm sounds. In calculating the operating time percentage,
      i. if an inspection of the fabric filter demonstrates that no corrective action is required, no alarm time is counted;
      ii. if corrective action is required, each alarm shall be counted as a minimum of one (1) hour;
      iii. if it takes longer than 1 hour to initiate corrective action, the alarm time shall be counted as the actual amount of time taken to initiate corrective action.

Q. The results of all FGD waste material moisture content tests.

R. The date and the average hourly rate of aqueous calcium bromide and/or calcium chloride that is added to the coal.

Authority for Requirement: DNR Construction Permit 03-A-425-P4

**NSPS and NESHAP Applicability**

This facility is subject to National Emission Standards for Hazardous Air Pollutants from Coal- and Oil-fired Electric Utility Steam Generating Units [40 CFR 63 Subpart UUUUU].

Authority for Requirement: 40 CFR 63 Subpart UUUUU

This emission point is subject to NSPS Subpart A – General Provisions and Subpart Da – Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978.

Authority for Requirement: 40 CFR 60 Subpart Da

This emission point is also subject to NESHAP Subpart A – General Provisions and Subpart B - Requirements for Control Technology Determinations for Major Sources in Accordance With Clean Air Act Sections.

Authority for Requirement: 40 CFR 63 Subpart B
**Emission Point Characteristics (EP-141)**
*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 551  
Stack Opening, (inches, dia.): 296  
Exhaust Flow Rate (scfm): 2,352,100  
Exhaust Temperature (°F): 165  
Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 03-A-425-P4

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

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

**Stack Testing**

Pollutant – Particulate Matter (PM and PM10)  
- 1st Stack Test to be completed within 12-months of permit issuance  
- 2nd Stack Test to be completed between 30 months and 42 months from permit issuance  

Test Method - Iowa Compliance Sampling Manual Method 5 for PM  
40 CFR 51, Appendix M, 201A with 202 or approved alternative test method for PM10

Authority for Requirement – 567 IAC 22.108(3)

**Continuous Emissions Monitoring:**

A. The following monitoring systems are required:  
- **Opacity:**
  
  In accordance with 40 CFR §60.49Da(a), the owner or operator shall install, calibrate, maintain, and operate a continuous monitoring system (CEMS) and record the output of the system, for measuring the opacity of emissions discharged to the atmosphere.  

  If opacity interference due to water droplets exists in the stack (for example, from the use of an FGD system), the opacity is monitored upstream of the interference (at the inlet to the FGD system). If opacity interference is experienced at all locations (both at the inlet and outlet of the sulfur dioxide control system), alternate parameters indicative of the particulate matter control system's performance are monitored (subject to the approval of the Administrator).
The system shall be designed to meet the 40 CFR 60, Appendix B, Performance Specification 1 (PS1).

Per 40 CFR §60.48Da(p), the owner or operator may elect to install, certify, maintain and operate a CEMS measuring PM emissions discharged to the atmosphere and record the output of the system as specified in 40 CFR §60.48Da(p)(1) through 40 CFR §60.48Da(p)(8). If the owner or operator elects to use the PM CEMS in lieu of an opacity monitor to demonstrate compliance with the NSPS, the opacity monitor is still required as the monitor shall also be used to demonstrate compliance with the BACT emission standards in this permit.

- **SO₂:**
  In accordance with 40 CFR §60.49Da(b), the owner or operator shall install, calibrate, maintain, and operate a continuous monitoring system (CEMS) and record the output of the system, for measuring sulfur dioxide (SO₂) emissions, except where natural gas is the only fuel combusted, as follows:

  1. Install, calibrate, maintain, and operate a CEMS and record the output of the system, for measuring sulfur dioxide (SO₂) emissions discharged to the atmosphere or
  2. If the owner or operator has installed and certified a SO₂ CEMS according to the requirements of 40 CFR §75.21 and 40 CFR 75, Appendix B, that CEMS may be used to meet the SO₂ monitoring requirements provided:

     i. A CO₂ or O₂ continuous monitoring system is installed, calibrated, maintained and operated at the same location in accordance with 40 CFR §60.49Da(d); and

     ii. For sources subject to an SO₂ emission limit in lb/MMBTU under §60.43Da:

        a. When relative accuracy testing is conducted, the SO₂ concentration data and the CO₂ (or O₂) data are collected simultaneously; and

        b. In addition to meeting the applicable SO₂ and CO₂ (or O₂) relative accuracy specifications in Figure 2 of 40 CFR 75 Appendix B, the relative accuracy (RA) standard in 40 CFR 60, Appendix B, Performance Specification 2 (PS2), Section 13.2 is met when the RA is calculated on a lb/MMBTU basis and

        (iii) The reporting requirements of 40 CFR §60.51Da are met. The SO₂ and CO₂ (or O₂) data reported to meet the requirements of 40 CFR §60.51Da shall not include substitute data values derived from the missing data procedures in 40 CFR 75, Subpart D, nor shall the SO₂ data have been bias adjusted according to the procedures of 40 CFR 75.

The system shall be designed to meet the 40 CFR 60, Appendix B, Performance Specification 2 (PS2) and Performance Specification 6 (PS6) requirements. The specifications of 40 CFR 60, Appendix F (Quality Assurance/Quality Control) shall apply. Appendix F requirements shall be supplemented with a quarterly notice to the Department with the dates of the quarterly cylinder gas audits and annual relative accuracy test audit.

- **NOₓ:**
  In accordance with 40 CFR §60.49Da(c), the owner or operator shall either:
(1) Install, calibrate, maintain, and operate a CEMS and record the output of the system, for measuring nitrogen oxides (NO\textsubscript{x}) emissions discharged to the atmosphere; or

(2) If the owner or operator has installed a NO\textsubscript{x} emission rate CEMS to meet the requirements of 40 CFR 75 and is continuing to meet the ongoing requirements of 40 CFR 75, that CEMS may be used to meet the requirements of 40 CFR §60.49Da(c), except that the owner or operator shall also meet the requirements of 40 CFR §60.51Da. Data reported to meet the requirements of 40 CFR §60.51Da shall not include data substituted using the missing data procedures in 40 CFR 75, Subpart D, nor shall the data have been bias adjusted according to the procedures of 40 CFR 75.

The system shall be designed to meet the 40 CFR 60, Appendix B, Performance Specification 2 (PS2) and Performance Specification 6 (PS6) requirements. The specifications of 40 CFR Appendix F (Quality Assurance/Quality Control) shall apply. Appendix F requirements shall be supplemented with a quarterly notice to the Department with the dates of the quarterly cylinder gas audits and annual relative accuracy test audit.

This monitor shall also be used to demonstrate compliance with the non-NSPS emission standards in this permit.

- \textit{O}_2 \text{ or } \textit{CO}_2:
In accordance with 40 CFR §60.49Da(d), the owner or operator shall install, calibrate, maintain, and operate a CEMS and record the output of the system, for measuring the oxygen (O\textsubscript{2}) or carbon dioxide (CO\textsubscript{2}) content of the flue gases at each location where SO\textsubscript{2} or NO\textsubscript{x} emissions are monitored.

- \textit{CO}:
Compliance with the carbon monoxide (CO) emission limits of this permit shall be continuously demonstrated by the owner or operator through the use of a CEMS. Therefore, the owner or operator shall install, calibrate, maintain, and operate a CEMS for measuring CO emissions discharged to the atmosphere and record the output of the system.

The system shall be designed to meet the 40 CFR 60, Appendix B, Performance Specification 4A (PS4A) and Performance Specification 6 (PS6) requirements. The specifications of 40 CFR 60, Appendix F (Quality Assurance/Quality Control) shall apply. Appendix F requirements shall be supplemented with a quarterly notice to the Department with the dates of the quarterly cylinder gas audits and annual relative accuracy test audit.

- \textit{Hg}:
Within one hundred twenty (120) days after final EPA approval of a mercury CEMS certification process the owner or operator shall continuously demonstrate compliance with the mercury (Hg) emission limits in this permit through the use of a combination of CEMS and stack testing as detailed in \textit{Stack Testing}, footnote 3. Therefore, the owner or operator shall install, calibrate, maintain, and operate a CEMS for measuring Hg emissions discharged to the atmosphere and record the output of the system. Prior to final approval of the mercury CEMS certification process the owner or operator shall conduct quarterly Hg testing per the requirements of \textit{Stack Testing}. 
The system shall be designed to meet the final EPA approved mercury monitoring specification. The specifications of 40 CFR 60, Appendix F (Quality Assurance/Quality Control) shall apply. Appendix F requirements shall be supplemented with a quarterly notice to the Department with the dates of the quarterly cylinder gas audits and annual relative accuracy test audit.

- **Wattmeter:**
  Per 40 CFR §60.49Da(k)(1), the owner or operator shall install, calibrate, maintain, and operate a wattmeter; measure gross electrical output in megawatt-hour on a continuous basis; and record the output of the monitor for demonstrating compliance with the output-based standard under 40 CFR §60.44Da(d)(1).

- **Flowmeter:**
  Per 40 CFR §60.49Da(l), the owner or operator demonstrating compliance with the output-based standard under 40 CFR §60.42Da, 40 CFR §60.43Da, 40 CFR §60.44Da, or 40 CFR §60.45Da shall install, certify, operate, and maintain a continuous flow monitoring system meeting the requirements of 40 CFR 60, Appendix B, Performance Specification 6 and 40 CFR 60, Appendix F, Procedure 1. In addition, the owner or operator shall record the output of the system, for measuring the volumetric flow of exhaust gases discharged to the atmosphere or alternatively, per 40 CFR §60.49Da(m), data from a continuous flow monitoring system certified according to the requirements of 40 CFR §75.20(c) and 40 CFR 75, Appendix A, and continuing to meet the applicable quality control and quality assurance requirements of 40 CFR §75.21 and 40 CFR 75, Appendix B, may be used.
  Flow rate data reported to meet the requirements of 40 CFR §60.51Da shall not include substitute data values derived from the missing data procedures of 40 CFR 75.

B. In accordance with 40 CFR §60.49Da(e), the CEMS required in Condition A for SO\(_2\), NO\(_x\), and either O\(_2\) or CO\(_2\) shall be operated and the data recorded during all periods of operation including periods of startup, shutdown, malfunction or emergency conditions, except for CEMS breakdowns, repairs, calibration checks, and zero and span adjustments.

C. In accordance with 40 CFR §60.49Da(f)(1), the owner or operator shall obtain emission data for at least eighteen (18) hours in at least twenty-two (22) out of thirty (30) successive boiler operating days. If this minimum data cannot be met with a CEMS, the owner or operator shall supplement the emission data with other monitoring systems approved by the Administrator or the following reference methods and procedures:

1. 40 CFR 60, Method 6 shall be used to determine the SO\(_2\) concentration at the same location as the SO\(_2\) monitor. Samples shall be taken at 60-minute intervals. The sampling time and sample volume for each sample shall be at least 20 minutes and 0.020 dscm (0.71 dscf). Each sample represents a 1-hour average.

2. 40 CFR 60, Method 7 shall be used to determine the NO\(_x\) concentration at the same location as the NO\(_x\) monitor. Samples shall be taken at 30-minute intervals. The arithmetic average of two consecutive samples represents a 1-hour average.

3. The emission rate correction factor, integrated bag sampling and analysis procedure of 40 CFR 60, Appendix A, Method 3B shall be used to determine the O\(_2\) or CO\(_2\) concentration at the same location as the O\(_2\) or CO\(_2\) monitor. Samples shall be taken
for at least 30 minutes in each hour. Each sample represents a 1-hour average.

(4) The procedures in 40 CFR 60, Appendix A, Method 19 shall be used to compute each 1-hour average concentration in ng/J (lb/million Btu) heat input.

Acceptable alternative methods and procedures are given in Condition F in this section.

D. The 1-hour averages required under 40 CFR §60.13(h) are expressed in ng/J (lb/million Btu) heat input and used to calculate the average emission rates under 40 CFR §60.48Da. The 1-hour averages are calculated using the data points required under 40 CFR §60.13(h)(2).

E. Per 40 CFR §60.49Da(i), the owner or operator shall use the following methods and procedures to conduct monitoring system performance evaluations under 40 CFR §60.13(c) and calibration checks under 40 CFR §60.13(d):

(1) Methods 3B, 6, and 7 shall be used to determine O₂, SO₂, and NOₓ concentrations, respectively.

(2) SO₂ or NOₓ (NO), as applicable, shall be used for preparing the calibration gas mixtures (in N₂, as applicable) under 40 CFR 60, Appendix B, Performance Specification 2.

(3) The span value for a continuous monitoring system for measuring opacity is between 60 and 80 percent.

(4) The span value for a continuous monitoring system measuring NOₓ is either:

(i) 1,000 ppm or

(ii) The owner or operator may elect to use the NOₓ span values determined according to Section 2.1.2 in 40 CFR 75, Appendix A.

(5) The span value of the sulfur dioxide continuous monitoring system is either:

(i) 125 percent of the maximum estimated hourly potential emissions of the fuel fired at the inlet to the sulfur dioxide control device and 50 percent of maximum estimated hourly potential emissions of the fuel fired at the outlet of the sulfur dioxide control device or

(ii) The owner or operator may elect to use the SO₂ span values determined according to Section 2.1.1 in 40 CFR 75, Appendix A.

Acceptable alternative methods and procedures are given in condition F in this section.

F. The owner or operator may use the following as alternatives to the reference methods and procedures specified:

(1) For 40 CFR 60, Appendix A: 40 CFR 60, Appendix A, Method 6, Method 6A or Method 6B (whenever 40 CFR 60, Appendix A, Method 6 and Method 3 or Method 3B data are used) or 40 CFR 60, Appendix A, Method 6C may be used. Each Method 6B sample obtained over 24 hours represents 24 1-hour averages. If either 40 CFR 60, Appendix A, Method 6A or 40 CFR 60, Appendix A, Method 6B is used under 40 CFR §60.49Da(i), the conditions under 40 CFR §60.49Da(d)(1) apply. These conditions do not apply under 40 CFR §60.49Da(h).

(2) For 40 CFR 60, Appendix A: 40 CFR 60, Appendix A, Method 7, Method 7A, 7C, 7D, or 7E may be used. If Method 7C, 7D, or 7E is used, the sampling time for each run shall be 1 hour.

(3) For 40 CFR 60, Appendix A, Method 3: 40 CFR 60, Appendix A, Method 3A or 3B
may be used if the sampling time is 1 hour.

(4) For 40 CFR 60, Appendix A, Method 3B: 40 CFR 60, Appendix A, Method 3A may be used.

G. The following data requirements shall apply to all CEMS for non-NSPS emission standards in this permit:

(1) The CEMS required by this permit shall be operated and data recorded during all periods of operation of the emission unit except for CEM breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments.

(2) The 1-hour average PM, Hg, SO\(_2\), NO\(_x\), and CO emission rates measured by the CEMS required by this permit shall be used to calculate compliance with the emission standards of this permit. At least 2 data points must be used to calculate each 1-hour average.

(3) For each hour of missing emission data (Hg, NO\(_x\), SO\(_2\), or CO), the owner or operator shall substitute data by:

   (i) If the monitor data availability is equal to or greater than 95.0%, the owner or operator shall calculate substitute data by means of the automated data acquisition and handling system for each hour of each missing data period according to the following procedures:

      (c) For the missing data period less than or equal to 24 hours, substitute the average of the hourly concentrations recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period;

      (d) For a missing data period greater than 24 hours, substitute the greater of:

         - The 90\(^{th}\) percentile hourly concentration recorded by a pollutant concentration monitor during the previous 720 quality-assured monitor operating hours; or
         - The average of the hourly concentrations recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period.

   (ii) If the monitor data availability is at least 90.0% but less than 95.0%, the owner or operator shall calculate substitute data by means of the automated data acquisition and handling system for each hour of each missing data period according to the following procedures:

      (a) For a missing data period of less than or equal to 8 hours, substitute the average of the hourly concentrations recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period.

      (b) For the missing data period of more than 8 hours, substitute the greater of:

         - The 95\(^{th}\) percentile hourly pollutant concentration recorded by a pollutant concentration monitor during the previous 720 quality-assured monitor operating hours; or
         - The average of the hourly concentrations recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period.

   (iii) If the monitor data availability is less than 90.0%, the owner or operator shall obtain actual emission data by an alternate testing or monitoring method approved by the Department.
H. If requested by the Department, the owner/operator shall coordinate the quarterly cylinder gas audits with the Department to afford the Department the opportunity to observe these audits. The relative accuracy test audits shall be coordinated with the Department.

Authority for Requirement: DNR Construction Permit 03-A-425-P4

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)
Compliance Assurance Monitoring Plan for EP-141

I. Background

A. Emissions Unit:
   Description: WSEC Boiler 4 and Fugitive Emissions
   Identification: EU-141
   Facility: MidAmerican Energy Co. – Walter Scott, Jr. Energy Center

B. Applicable Regulation, Emission Limit, and Monitoring Requirements:
   Regulation No.: Construction Permit 03-A-425-P4
   Particulate Emission Limits:
      BACT Limit: 0.0025 lb/MMBtu for PM10
      BACT Limit: 0.0027 lb/MMBtu for PM
      MACT Limit: 0.018 lb/MMBtu for Federal PM
      NSPS Limit: 13 ng/J Heat Input for Federal PM
      Other Limit: 191.9 lb/hr for PM10
   Opacity Emission Limit: 5%; 20%
   Current Monitoring Requirements:
      Alarm of the Bag Leak Detection System
      Continuous Opacity Monitoring

C. Control Technology: Baghouse

II. Monitoring Approach

A. Indicator
   An alarm system will be used as an indicator.

B. Measurement Approach
   The alarm system will sound automatically when an increase in related particulate
   matter emissions over a preset level is detected.

C. Indicator Range
   The alarm system shall sound no more than 5% of the operating time during a 6-
   month period.

D. Performance Criteria
   Data representativeness:
      The alarm system will sound when the particulate matter
      emissions increase over the predetermined parameter.
   Verification of operational status:
      The bag leak record will be kept for five years.
   QA/QC practices and criteria:
      At least one detector must be located in compartment of the
      baghouse;
      The bag leak detection system must be installed, operated,
      calibrated and maintained in a manner consistent with the
      guidance provided in "Fabric Filter Bag Leak Detection
      Guidance", EPA-454/R-98-015, September 1997;
      The bag leak detection system must be certified by the
      manufacturer to be capable of detecting particulate matter
      emissions at concentrations of 10 milligrams per actual
      cubic meter or less;
The bag leak detection system sensor must provide output of relative or absolute particulate matter loadings;
The bag leak detection system must be equipped with a device to continuously record the output signal from the sensors;
The bag leak detection system must be equipped with an alarm system that will sound automatically when an increase in relative particulate matter emissions over a preset level is detected. The alarm must be located where it is easily heard by plant operating personnel;
The system's instrumentation and alarm may be shared among detectors;
The system's alarm shall sound no more than 5% of the operating time during a 6-month period.

Monitoring frequency and data collection procedure:
The bag leak detection system shall operate continuously.
Records of the readings shall be maintained for five years.
**Emission Point ID Number:** EP-142

**Associated Equipment**
Associated Emission Unit ID Numbers: EU-142  
Emissions Control Equipment ID Number: CE-142  
Emissions Control Equipment Description: Low NO\textsubscript{x} Burners  
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-142  
Emission Unit Description: Unit #4 Auxiliary Boiler - Natural Gas  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 343.3 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.

#### Opacity

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Visible Emissions</td>
<td>None</td>
<td>NA</td>
<td>DNR Construction Permit 03-A-426-P2</td>
<td>BACT</td>
</tr>
</tbody>
</table>

#### Particulate Matter (PM\textsubscript{10})

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0076 lb/MMBtu</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-426-P2</td>
<td>BACT</td>
</tr>
<tr>
<td>2.61 lb/hr</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-426-P2</td>
<td>NAAQS</td>
</tr>
</tbody>
</table>

#### Particulate Matter (PM)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0076 lb/MMBtu</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-426-P2</td>
<td>BACT</td>
</tr>
</tbody>
</table>
### Sulfur Dioxide (SO₂)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>6×10⁻⁴ lb/MMBtu</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-426-P2</td>
<td>BACT</td>
</tr>
<tr>
<td>0.21 lb/hr</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-426-P2</td>
<td>NAAQS</td>
</tr>
<tr>
<td>500 ppm</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-426-P2</td>
<td>NA</td>
</tr>
</tbody>
</table>

### Nitrogen Oxides (NOₓ)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.14 lb/MMBtu</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-426-P2</td>
<td>BACT</td>
</tr>
<tr>
<td>21.1 ton/yr</td>
<td>12-Month Rolling Total</td>
<td>Recordkeeping</td>
<td>DNR Construction Permit 03-A-426-P2</td>
<td>BACT</td>
</tr>
<tr>
<td>48.06 lb/hr</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-426-P2</td>
<td>NAAQS</td>
</tr>
<tr>
<td>0.20 lb/MMBtu ¹</td>
<td>24-hr Average (initial) 3-hr Average (subsequent)</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-426-P2</td>
<td>None</td>
</tr>
</tbody>
</table>

¹0.20 lb/MMBtu was derived from natural gas and distillate fuel. See Construction Permit 03-A-426-P2 Section 10b (page 5) or 40 CFR §60.44b (a) for nitrogen dioxides (NOₓ) for detailed calculations.

### Volatile Organic Compounds (VOC)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0055 lb/MMBtu</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-426-P2</td>
<td>BACT</td>
</tr>
</tbody>
</table>

### Carbon Monoxide (CO)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.084 lb/MMBtu</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-426-P2</td>
<td>BACT</td>
</tr>
<tr>
<td>28.84 lb/hr</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-426-P2</td>
<td>NAAQS</td>
</tr>
<tr>
<td>400 ppmv @3% O₂</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-426-P2</td>
<td>NA</td>
</tr>
</tbody>
</table>
### Lead (Pb)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>$5.0 \times 10^{-7}$ lb/MMBtu</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-426-P2</td>
<td>BACT</td>
</tr>
<tr>
<td>$4.0 \times 10^{-4}$ lb/hr</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-426-P2</td>
<td>NAAQS</td>
</tr>
</tbody>
</table>

**Operational Limits & Requirements**

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

**Operating Limits**

A. WSEC Auxiliary Boiler (EP-142) shall be limited to firing on natural gas only.
B. This emission unit shall not combust more than 300 million cubic feet of natural gas per twelve (12) month rolling period.
C. Per 40 CFR §60.46b(h)(2), the owner or operator shall conduct subsequent performance tests once per calendar year or every 400 hours of operation (whichever comes first) to demonstrate compliance with the nitrogen oxides emission standards under 40 CFR §60.44b over a minimum of three (3) consecutive steam generating unit operating hours at maximum heat input capacity using Method 7, 7A, 7E, or other approved reference methods.
D. The owner or operator shall submit the written reports required under NSPS Subparts A and Db to the Administrator semiannually for each six-month period. All semiannual reports shall be postmarked by the 30th day following the end of each six-month period.
E. Per 40 CFR §60.49b(p), the owner or operator shall maintain records of the following information for each steam generating unit operating day:
   E1. Calendar date;
   E2. The number of hours of operation, and
   E3. A record of the hourly steam load.

**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. For the first twelve (12) months of operation, determine the total amount of fuel used (in cubic feet/month) by this emission unit for each month of operation.
B. After the first twelve (12) months of operation, determine the cumulative amount of fuel used (in cubic feet/year) by this emission unit on a rolling-12-month basis for each month of operation.
C. A log showing the sulfur content of the natural gas used.
D. Per 40 CFR §60.49b(q), the owner or operator shall submit to the Administrator a report containing:
   D1. The annual capacity factor over the previous twelve (12) months and
   D2. The following information per 40 CFR §60.49b(q)(3)
i. The results of any nitrogen oxides emission tests required during the reporting period;

ii. The hours of operation during the reporting period, and

iii. The hours of operation since the last nitrogen oxides emission test.

E. Per 40 CFR §60.49b(v), the owner or operator may submit electronic quarterly reports for NOx in lieu of submitting the written reports required under paragraphs (h), (i), (j), (k) or (l) of 40 CFR §49b. The format of each quarterly electronic report shall be coordinated with the permitting authority. The electronic report(s) shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement from the owner or operator, indicating whether compliance with the applicable emission standards and minimum data requirements of this subpart was achieved during the reporting period. Before submitting reports in the electronic format, the owner or operator shall coordinate with the permitting authority to obtain their agreement to submit reports in this alternative format.

F. Monitoring for NESHAP Subpart DDDDD at the facility shall be done per the subpart.

G. Recordkeeping for NESHAP Subpart DDDDD at the facility shall be done per the subpart. Records shall be kept on site and available for inspection for a period of five (5) years and shall include records of fuel use, capacity factor, semi-annual compliance reports, annual performance test reports and all required notifications.

Authority for Requirement: DNR Construction Permit 03-A-426-P2

**NSPS and NESHAP Applicability**

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

Authority for Requirement: 40 CFR 60 Subpart Db

This equipment is subject to National Emission Standards for Hazardous Air Pollutants for Major Source: Industrial, Commercial and Institutional Boilers and Process Heaters (Boiler MACT) [40 CFR Part 63 Subpart DDDDD].

Authority for Requirement: 40 CFR 63 Subpart DDDDD
Emission Point Characteristics
The emission point shall conform to the specifications listed below:

Stack Height, (ft, from the ground): 290
Stack Opening, (inches, dia.): 69
Exhaust Flow Rate (scfm): 72,300
Exhaust Temperature (°F): 310
Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 03-A-426-P2

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

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

Stack Testing:
- Pollutant – Nitrogen Oxides (NOx)
  The facility shall conduct annual /400 operating hour NOx stack testing on EP-142.
- Test Method – 40 CFR 60, Appendix A, Method 7E
- Authority for Requirement – DNR Construction Permit 03-A-426-P2
  40 CFR 60 Subpart Db

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

Authority for Requirement: 567 IAC 22.108(3)
**Emission Point ID Number: EP-143**

**Associated Equipment**

- Associated Emission Unit ID Numbers: EU-143
- Emissions Control Equipment ID Number: None
- Emissions Control Equipment Description: NA
- Continuous Emissions Monitors ID Numbers: None

---

Emission Unit vented through this Emission Point: EU-143

- Emission Unit Description: Unit #4 Emergency Generator
- Raw Material/Fuel: Diesel Fuel
- Rated Capacity: 119.3 gal/hr

**Applicable Requirements**

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

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

<table>
<thead>
<tr>
<th>Opacity</th>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>20%</td>
<td>6-min Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-428-P1</td>
<td>BACT</td>
</tr>
</tbody>
</table>

**Particulate Matter (PM_{10})**

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.14 lb/MMBtu</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-428-P1</td>
<td>BACT</td>
</tr>
</tbody>
</table>

**Particulate Matter (PM)**

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.14 lb/MMBtu</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-428-P1</td>
<td>BACT</td>
</tr>
</tbody>
</table>
### Sulfur Dioxide (SO₂)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.052 lb/MMBtu</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-428-P1</td>
<td>BACT</td>
</tr>
<tr>
<td>0.21 ton/yr</td>
<td>12-Month Rolling Total</td>
<td>Recordkeeping</td>
<td>DNR Construction Permit 03-A-428-P1</td>
<td>BACT</td>
</tr>
<tr>
<td>2.5 lb/MMBtu</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-428-P1 567 IAC 23.3(3) &quot;b&quot;</td>
<td>NA</td>
</tr>
</tbody>
</table>

### Nitrogen Oxides (NOₓ)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.71 lb/MMBtu</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-428-P1</td>
<td>BACT</td>
</tr>
<tr>
<td>6.99 ton/yr</td>
<td>12-Month Rolling Total</td>
<td>Recordkeeping</td>
<td>DNR Construction Permit 03-A-428-P1</td>
<td>BACT</td>
</tr>
</tbody>
</table>

### Volatile Organic Compounds (VOC)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.09 lb/MMBtu</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-428-P1</td>
<td>BACT</td>
</tr>
</tbody>
</table>

### Carbon Monoxide (CO)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.85 lb/MMBtu</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-428-P1</td>
<td>BACT</td>
</tr>
<tr>
<td>3.47 ton/yr</td>
<td>12-Month Rolling Total</td>
<td>Recordkeeping</td>
<td>DNR Construction Permit 03-A-428-P1</td>
<td>BACT</td>
</tr>
</tbody>
</table>

### Operational Limits & Requirements

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

#### Operating Limits

A. This emission unit shall fire on diesel fuel only.
B. The sulfur (S) content of the fuel used shall not exceed 0.05% (by weight).
C. This emission unit shall not combust more than 59,650 gallons of diesel fuel per twelve (12) month rolling period.
**Reporting and Recordkeeping**

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

A. A fuel certification shall be kept for each fuel delivery received for this unit. This certification shall show the type of fuel delivered along with the sulfur content of the fuel (in weight %).

B. After the first twelve (12) months of operation, determine the cumulative amount of fuel used (in gallons/year) by this emission unit on a rolling-12-month basis for each month of operation.

Authority for Requirement:  DNR Construction Permit 03-A-428-P1

**NESHAP:**

The emergency engine is subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE).

According to 40 CFR 63.6590(a)(2)(i) this emergency engine, located at a major source, is a new stationary RICE as it was constructed on or after December 19, 2002.

According to 40 CFR 63.6590(b)(1)(i), a new emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions is not subject to the requirements of 40 CFR 63 Subpart ZZZZ and Subpart A except for initial notification requirements of 40 CFR 63.6645(f).

Authority for Requirement:  40 CFR Part 63 Subpart ZZZZ

567 IAC 23.1(4)"cz"

**Emission Point Characteristics**

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 21.8
Stack Opening, (inches, dia.): 18
Exhaust Flow Rate (scfm): 5,800
Exhaust Temperature (°F): 855
Discharge Style: Vertical Unobstructed

Authority for Requirement:  DNR Construction Permit 03-A-428-P1

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

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

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

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

Authority for Requirement:  567 IAC 22.108(3)
Emission Point ID Number: EP-144

Associated Equipment

Associated Emission Unit ID Numbers: EU-144
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: NA
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-144
Emission Unit Description: Unit #4 Diesel Fire Pump
Raw Material/Fuel: Diesel Fuel
Rated Capacity: 16.5 gal/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

<table>
<thead>
<tr>
<th>Opacity</th>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>20%</td>
<td>6-Minute Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-429-P1</td>
<td>BACT</td>
<td></td>
</tr>
</tbody>
</table>

Particulate Matter (PM$_{10}$)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.31 lb/MMBtu</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-429-P1</td>
<td>BACT</td>
</tr>
</tbody>
</table>

Particulate Matter (PM)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.31 lb/MMBtu</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-429-P1</td>
<td>BACT</td>
</tr>
</tbody>
</table>
### Sulfur Dioxide (SO₂)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.052 lb/MMBtu</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-429-P1</td>
<td>BACT</td>
</tr>
<tr>
<td>0.03 ton/yr</td>
<td>12-Month Rolling Total</td>
<td>Recordkeeping</td>
<td>DNR Construction Permit 03-A-429-P1</td>
<td>BACT</td>
</tr>
<tr>
<td>2.5 lb/MMBtu</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-429-P1 567 IAC 23.3(3) &quot;b&quot;</td>
<td>NA</td>
</tr>
</tbody>
</table>

### Nitrogen Oxides (NOₓ)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.41 lb/MMBtu</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-429-P1</td>
<td>BACT</td>
</tr>
<tr>
<td>2.49 ton/yr</td>
<td>12-Month Rolling Total</td>
<td>Recordkeeping</td>
<td>DNR Construction Permit 03-A-429-P1</td>
<td>BACT</td>
</tr>
</tbody>
</table>

### Volatile Organic Compounds (VOC)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.35 lb/MMBtu</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-429-P1</td>
<td>BACT</td>
</tr>
</tbody>
</table>

### Carbon Monoxide (CO)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.95 lb/MMBtu</td>
<td>3-Test Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-429-P1</td>
<td>BACT</td>
</tr>
<tr>
<td>0.54 ton/yr</td>
<td>12-Month Rolling Total</td>
<td>Recordkeeping</td>
<td>DNR Construction Permit 03-A-429-P1</td>
<td>BACT</td>
</tr>
</tbody>
</table>

### Operational Limits & Requirements

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

### Operating Limits

A. This emission unit shall fire on diesel fuel only.
B. The sulfur (S) content of the fuel used shall not exceed 0.05% (by weight).
C. This emission unit shall not combust more than 8,250 gallons of diesel fuel per twelve (12) month rolling period.
**Reporting and Recordkeeping**

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

- A. A fuel certification shall be kept for each fuel delivery received for this unit. This certification shall show the type of fuel delivered along with the sulfur content of the fuel (in weight %).
- B. After the first twelve (12) months of operation, determine the cumulative amount of fuel used (in gallons/year) by this emission unit on a rolling-12-month basis for each month of operation.

Authority for Requirement: DNR Construction Permit 03-A-429-P1

**NESHAP:**
The emergency engine is subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590(a)(1)(ii) this compression ignition emergency engine, located at a major source, is an existing stationary RICE as it was constructed prior to June 12, 2006.

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

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

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

**Operating Limits** 40 CFR 63.6640(f)

1. Any operation other than emergency operation, maintenance and testing and operation in non-emergency situations (up to) 50 hours per year is prohibited.
2. There is no time limit on the use of emergency stationary RICE in emergency situations.
3. You may operate your emergency stationary RICE up to 100 combined hours per calendar year for maintenance checks and readiness testing. See 40 CFR 63.6640(f)(2) for additional information and restrictions.

4. You may operate your emergency stationary RICE up to 50 hours per calendar year for non-emergency situations, but those 50 hours are counted toward the 100 hours of maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

**Recordkeeping Requirements 40 CFR 63.6655**

3. Keep records of the maintenance conducted on the stationary RICE.

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

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

3. An initial notification is not required per 40 CFR 63.6645(a)(5).

4. A report may be required for failure to perform the work practice requirements on the schedule required in Table 2c. (See Footnote 1 of Table 2c for more information.)

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ

567 IAC 23.1(4)"cz"

**Emission Point Characteristics**

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

- **Stack Height**, (ft, from the ground): 13.5
- **Stack Opening**, (inches, dia.): 6
- **Exhaust Flow Rate** (scfm): 800
- **Exhaust Temperature** (°F): 850
- **Discharge Style**: Horizontal

Authority for Requirement: DNR Construction Permit 03-A-429-P1

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

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

Authority for Requirement:  567 IAC 22.108(3)
Emission Point ID Number: EP-145

Associated Equipment

Associated Emission Unit ID Numbers: EU-145
Emissions Control Equipment ID Number: CE-145
Emissions Control Equipment Description: Drift Eliminator
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-145
Emission Unit Description: Unit #4 Cooling Tower
Raw Material/Fuel: Cooling Water
Rated Capacity: 394,500 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): No Visible Emissions \(^1\)
Authority for Requirement: DNR Construction Permit 03-A-427-P1

Pollutant: Particulate Matter (PM\(_{10}\))
Emission Limit(s): 0.0005% \(^1, 2\); 1.28 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-427-P1

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.0005% \(^1, 2\)
Authority for Requirement: DNR Construction Permit 03-A-427-P1

\(^1\) BACT limits.
\(^2\) This is the required control efficiency of the drift eliminator (gallons of drift per gallon of cooling water flow).

Operational Limits & Requirements

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

Operating Limits

A. The total dissolved solids (TDS) of the water circulated through the tower shall not exceed 6,480 mg/L.
B. Chromium based water treatment chemicals shall not be used in this emission unit.

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. An analysis of the TDS of the water circulated through the tower shall be conducted for each quarter this emission unit is in use.

Authority for Requirement: DNR Construction Permit 03-A-427-P1
**Emission Point Characteristics**

The emission point shall conform to the specifications listed below.

- **Stack Height**: 63.1 ft (from the ground)
- **Stack Opening**: 393.6 inches (dia.) (22 cells in total)
- **Exhaust Flow Rate (scfm)**: 1,302,900 per cell (22 cells in total)
- **Exhaust Temperature (°F)**: 100
- **Discharge Style**: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 03-A-427-P1

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: EP-005 and EP151 (Coal Storage)

Table - 1

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Emission Unit Description</th>
<th>Raw Material</th>
<th>Rated Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-005</td>
<td>EU-005A</td>
<td>Coal Pile Bulldozing</td>
<td>Coal</td>
<td>3.0 dozer/hr</td>
</tr>
<tr>
<td></td>
<td>EU-005B</td>
<td>Inactive Coal Pile</td>
<td>Coal</td>
<td>1,196,459 ft²</td>
</tr>
<tr>
<td></td>
<td>EU-005C</td>
<td>Active Coal Pile</td>
<td>Coal</td>
<td>311,155 ft²</td>
</tr>
<tr>
<td>EP-151</td>
<td>EU-151</td>
<td>Rail Unloading Stockout</td>
<td>Coal</td>
<td>28,224 ft²</td>
</tr>
</tbody>
</table>

Table - 2

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>CE &amp; Description</th>
<th>CEM</th>
<th>IDNR Construction Permit</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-005</td>
<td>EU-005A</td>
<td>CE-005 Dust Suppressant</td>
<td>NO</td>
<td>03-A-425-P4</td>
</tr>
<tr>
<td></td>
<td>EU-005B</td>
<td>CE-005A Encapsulating Chemical</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EU-005C</td>
<td>CE-005 Dust Suppressant</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>EP-151</td>
<td>EU-151</td>
<td>CE-005 Dust Suppressant</td>
<td>NO</td>
<td></td>
</tr>
</tbody>
</table>

Applicable Requirements

Operational Limits & Requirements

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

A. Active coal pile:
   (i) The size of the active coal pile shall not exceed 311,155 square feet.
   (ii) Fugitive emissions shall be controlled by applying a chemical dust suppressant. Applications of the selected chemical dust suppressant and the record keeping requirements described in Condition A in the section of Reporting and Recordkeeping shall begin at the same time as the startup of Boiler 4. A control efficiency of 95% shall be maintained. MidAmerican may elect to use any chemical dust suppressant that is capable of achieving the required control efficiencies. In the event that the manufacturer or distributor of a chemical dust suppressant recommends different amounts of chemical dust suppressant or MidAmerican chooses to use a different chemical dust suppressant, MidAmerican shall notify DNR of the change in application rates and/or chemical dust suppressant and the manufacturer's/distributor's recommendations.
   (iii) If the selected chemical dust suppressant cannot be applied because the ambient air temperature (as measured at the facility during daylight operating hours) will be less than 35°F (1.7°C) or other conditions due to weather cause the chemical dust suppressant to not be applied then the chemical dust suppressant application shall be postponed and applied as soon after the scheduled application date as the conditions preventing the application have abated.

B. Inactive coal storage pile:
   (i) The size of the inactive coal storage pile shall not exceed 1,196,459 square feet.
   (ii) Fugitive emissions shall be controlled by applying a chemical dust suppressant. Applications of the selected chemical dust suppressant and the record keeping requirements described in Condition A in the section of Reporting and Recordkeeping shall begin at the same time as the startup of Boiler 4. A control efficiency of 99% shall be maintained when the pile is inactive. A chemical dust suppressant shall be used to meet a control efficiency of 95% for maintenance of
the inactive pile. MidAmerican may elect to use any chemical dust suppressant that is capable of achieving the required control efficiencies. In the event that the manufacturer or distributor of a chemical dust suppressant recommends different amounts of chemical dust suppressant or MidAmerican chooses to use a different chemical dust suppressant, MidAmerican shall notify DNR of the change in application rates and/or chemical dust suppressant and the manufacturer's/distributor's recommendations.

(iii) If the selected chemical dust suppressant cannot be applied because the ambient air temperature (as measured at the facility during daylight operating hours) will be less than 35°F (1.7°C) or other conditions due to weather cause the chemical dust suppressant to not be applied then the chemical dust suppressant application shall be postponed and applied as soon after the scheduled application date as the conditions preventing the application have abated.

C. Rail unloading coal stockout pile:
(i) The size of the active coal storage pile shall not exceed 28,224 square feet.
(ii) Fugitive emissions shall be controlled by applying a chemical dust suppressant. Applications of the selected chemical dust suppressant and the record keeping requirements described in Condition A in the section of Reporting and Recordkeeping shall begin at the same time as the startup of Boiler 4. A control efficiency of 95% shall be maintained. MidAmerican may elect to use any chemical dust suppressant that is capable of achieving the 95% control efficiency. In the event that the manufacturer or distributor of a chemical dust suppressant recommends different amounts of chemical dust suppressant or MidAmerican chooses to use a different chemical dust suppressant, MidAmerican shall notify DNR of the change in application rates and/or chemical dust suppressant and the manufacturer's/distributor's recommendations.

(iii) If the selected chemical dust suppressant cannot be applied because the ambient air temperature (as measured at the facility during daylight operating hours) will be less than 35°F (1.7°C) or other conditions due to weather cause the chemical dust suppressant to not be applied then the chemical dust suppressant application shall be postponed and applied as soon after the scheduled application date as the conditions preventing the application have abated.

**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. A log showing the following for the area sources in this project:

A1. Active coal pile:

   (i) The date and size of the pile.

   (ii) Records of the applications shall be maintained and shall include:

   - The dates of each application,
   - The chemical dust suppressant used,
   - The application intensity (gal/yd²),
   - Dilution ratio,
   - The operator's initials, and
- Documentation of weather conditions, if necessary.

(iii) If the selected chemical dust suppressant is not applied as planned, then the records should so indicate and provide an explanation.

A2. Inactive storage pile:
   (i) The date and size of the pile.
   (ii) Records of the applications shall be maintained and shall include:
       - The dates of each application,
       - The chemical dust suppressant used,
       - The application intensity (gal/\(yd^2\)),
       - Dilution ratio,
       - The operator's initials, and
       - Documentation of weather conditions, if necessary.

(iii) If the selected chemical dust suppressant is not applied as planned, then the records should so indicate and provide an explanation.

A3. Rail unloading coal stockout pile:
   (i) The date and size of the pile.
   (ii) Records of the applications shall be maintained and shall include:
       - The dates of each application;
       - The chemical dust suppressant used;
       - The application intensity (gal/\(yd^2\));
       - Dilution ratio;
       - The operator's initials, and
       - Documentation of weather conditions, if necessary.

(iii) If the selected chemical dust suppressant is not applied as planned, then the records should so indicate and provide an explanation.

Authority for Requirement: DNR Construction Permit 03-A-425-P4

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)
**Emission Point ID Number:** EP-160

**Associated Equipment**

Associated Emission Unit ID Numbers: EU-160
Emissions Control Equipment ID Number: CE-160
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-160
Emission Unit Description: Unit #4 Coal Silos (series of six)
Raw Material/Fuel: Coal
Rated Capacity: 1,600 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.*

**Opacity**

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>5%</td>
<td>1-Hour Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-440-P2</td>
<td>BACT</td>
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<tr>
<td>20%</td>
<td>6-Minute Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-440-P2</td>
<td>NA</td>
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</tbody>
</table>

**Particulate Matter (PM$_{10}$)**

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.005 gr/dscf</td>
<td>3-Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-440-P2</td>
<td>BACT</td>
</tr>
<tr>
<td>2.14 lb/hr</td>
<td>3-Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-440-P2</td>
<td>NAAQS</td>
</tr>
</tbody>
</table>

**Particulate Matter (PM)**

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.005 gr/dscf</td>
<td>3-Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-440-P2</td>
<td>BACT</td>
</tr>
</tbody>
</table>
Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Limits
A. The facility is required to schedule a PM$_{10}$ compliance test within thirty (30) days if it exceeds the one (1) hour, 5% BACT opacity limit.
Authority for Requirement: DNR Construction Permit 03-A-440-P2

NSPS and NESHAP Applicability
This emission unit is subject to NSPS Subpart A – General Provisions and Subpart Y – Standards of Performance of Coal Preparation Plants.
Authority for Requirement: 40 CFR 60 Subpart Y 567 IAC 23.1(2) “v”

Emission Point Characteristics
The emission point shall conform to the specifications listed below.
Stack Height, (ft, from the ground): 246
Stack Opening, (inches, dia.): 54
Exhaust Flow Rate (scfm): 49,900
Exhaust Temperature (°F): 70
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 03-A-440-P2

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)
**Emission Point ID Number: EP-161**

**Associated Equipment**

Associated Emission Unit ID Numbers: EU-161  
Emissions Control Equipment ID Number: CE-161  
Emissions Control Equipment Description: Bin Vent Filter  
Continuous Emissions Monitors ID Numbers: None

---

Emission Unit vented through this Emission Point: EU-161  
Emission Unit Description: Unit #4 Lime Storage Day Bin  
Raw Material/Fuel: Lime  
Rated Capacity: 54.0 tons

**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.*

**Opacity**

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Visible Emissions</td>
<td>NA</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 07-A-385-P 567 IAC 23.3(2) &quot;d&quot;</td>
<td>BACT</td>
</tr>
</tbody>
</table>

**Particulate Matter (PM<sub>10</sub>)**

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.005 gr/dscf</td>
<td>3-Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 07-A-385-P</td>
<td>BACT</td>
</tr>
<tr>
<td>0.03 lb/hr</td>
<td>3-Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 07-A-385-P</td>
<td>NAAQS</td>
</tr>
</tbody>
</table>

**Particulate Matter (PM)**

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.005 gr/dscf</td>
<td>3-Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 07-A-385-P</td>
<td>BACT</td>
</tr>
</tbody>
</table>
Operational Limits & Requirements

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

Operational limits are not required at this time.

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 85
Stack Opening, (inches, dia.): 3.25
Exhaust Flow Rate (scfm): 300
Exhaust Temperature (°F): 70
Discharge Style: Downward

Authority for Requirement: DNR Construction Permit 07-A-385-P

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

Monitoring Requirements

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

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

Authority for Requirement: 567 IAC 22.108(3)

Associated Equipment

Associated Emission Unit ID Numbers: EU-162A and EU-162B
Emissions Control Equipment ID Number: CE-162
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit Descriptions, Raw Material/Fuel and Rated Capacity are listed in the following table:

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Emission Unit Description</th>
<th>Raw Material</th>
<th>Rated Capacity</th>
<th>Con. Permit</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-162A</td>
<td>EU-162A</td>
<td>Unit #4 Lime Exhauster #1</td>
<td>Lime</td>
<td>30.0 ton/hr</td>
<td>03-A-435-P1</td>
</tr>
<tr>
<td>EP-162B</td>
<td>EU-162B</td>
<td>Unit #4 Lime Exhauster #2</td>
<td>Lime</td>
<td>30.0 ton/hr</td>
<td>07-A-386-P</td>
</tr>
</tbody>
</table>

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.

**Table 1. BACT Limits:**

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Opacity</th>
<th>PM</th>
<th>PM10</th>
<th>Authority of Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-162A</td>
<td>EU-162A</td>
<td>No Visible Emissions</td>
<td>0.01 gr/dscf</td>
<td>0.01 gr/dscf</td>
<td>Iowa DNR Con. Permit 03-A-435-P1</td>
</tr>
<tr>
<td>EP-162B</td>
<td>EU-162B</td>
<td>No Visible Emissions</td>
<td>0.005 gr/dscf</td>
<td>0.005 gr/dscf</td>
<td>Iowa DNR Con. Permit 07-A-386-P</td>
</tr>
</tbody>
</table>

**Table 2. Other Limits:**

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Opacity</th>
<th>PM10</th>
<th>Authority of Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-162A</td>
<td>EU-162A</td>
<td>No Visible Emissions</td>
<td>0.03 lb/hr</td>
<td>Iowa DNR Con. Permit 03-A-435-P1 567 IAC 23.3(2) &quot;d&quot;</td>
</tr>
<tr>
<td>EP-162B</td>
<td>EU-162B</td>
<td>No Visible Emissions</td>
<td>0.03 lb/hr</td>
<td>Iowa DNR Con. Permit 07-A-386-P 567 IAC 23.3(2) &quot;d&quot;</td>
</tr>
</tbody>
</table>

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

Operational limits are not required at this time.
**Emission Point Characteristics**

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

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Stack Height, (ft, from the ground)</td>
<td>13</td>
<td>13</td>
</tr>
<tr>
<td>Stack Opening (diameter, inches)</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Exhaust Flow Rate (scfm)</td>
<td>400</td>
<td>400</td>
</tr>
<tr>
<td>Exhaust Temperature (°F)</td>
<td>150</td>
<td>150</td>
</tr>
<tr>
<td>Discharge Style</td>
<td>Downward</td>
<td>Downward</td>
</tr>
<tr>
<td>Authority for Requirement</td>
<td>Iowa DNR Con. Permit 03-A-435-P1</td>
<td>Iowa DNR Con. Permit 07-A-386-P</td>
</tr>
</tbody>
</table>

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

**Monitoring Requirements**

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

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

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: EP-163

Associated Equipment

Associated Emission Unit ID Numbers: EU-163
Emissions Control Equipment ID Number: CE-163
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-163
Emission Unit Description: Unit #4 Lime Silo
Raw Material/Fuel: Lime
Rated Capacity: 1,875.0 ton capacity; 30 ton/hr fill rate

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.

Opacity

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Visible Emissions</td>
<td>NA</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-434-P2 567 IAC 23.3(2) &quot;d&quot;</td>
<td>BACT</td>
</tr>
</tbody>
</table>

Particulate Matter (PM_{10})

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.01 gr/dscf</td>
<td>3-Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-434-P2</td>
<td>BACT</td>
</tr>
<tr>
<td>0.03 lb/hr</td>
<td>3-Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-434-P2</td>
<td>NAAQS</td>
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Particulate Matter (PM)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.01 gr/dscf</td>
<td>3-Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-434-P2</td>
<td>BACT</td>
</tr>
</tbody>
</table>
Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operational limits are not required at this time.

Emission Point Characteristics
The emission point shall conform to the specifications listed below.
Stack Height, (ft, from the ground): 104
Stack Opening, (inches, dia.): 4
Exhaust Flow Rate (scfm): 300
Exhaust Temperature (°F): 70
Discharge Style: Downward

Authority for Requirement: DNR Construction Permit 03-A-434-P2
The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flow rate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

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

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

Authority for Requirement: 567 IAC 22.108(3)
### Emission Point ID Number: EP-164

**Associated Equipment**

Associated Emission Unit ID Numbers: EU-164  
Emissions Control Equipment ID Number: CE-164  
Emissions Control Equipment Description: Water Bath  
Continuous Emissions Monitors ID Numbers: None

---

Emission Unit vented through this Emission Point: EU-164  
Emission Unit Description: Unit #4 Urea Dissolver Tank  
Raw Material/Fuel: Urea  
Rated Capacity: 69.0 tons; 15,000 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.*

#### Opacity

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Visible Emissions</td>
<td>NA</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-442-P2 567 IAC 23.3(2) &quot;d&quot;</td>
<td>BACT</td>
</tr>
</tbody>
</table>

#### Particulate Matter (PM$_{10}$)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.01 gr/dscf</td>
<td>3-Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-442-P2</td>
<td>BACT</td>
</tr>
<tr>
<td>0.04 lb/hr</td>
<td>3-Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-442-P2</td>
<td>NAAQS</td>
</tr>
</tbody>
</table>

#### Particulate Matter (PM)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.01 gr/dscf</td>
<td>3-Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-442-P2</td>
<td>BACT</td>
</tr>
</tbody>
</table>
**Operational Limits & Requirements**

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

Operational limits are not required at this time.

**Emission Point Characteristics**

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

- Stack Height, (ft, from the ground): 29
- Stack Opening, (inches, dia.): 12
- Exhaust Flow Rate (scfm): 500
- Exhaust Temperature (°F): 70
- Discharge Style: Vertical Obstructed

Authority for Requirement: DNR Construction Permit 03-A-442-P2

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

**Monitoring Requirements**

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

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

Authority for Requirement: 567 IAC 22.108(3)

Associated Equipment

Associated Emission Unit ID Numbers: EU-165A and EU-165B
Emissions Control Equipment ID Number: CE-165A and CE-165B
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit Descriptions, Raw Material/Fuel and Rated Capacity are listed in the following table:

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Emission Unit Description</th>
<th>Raw Material</th>
<th>Rated Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-165A</td>
<td>EU-165A</td>
<td>Unit #4 Activated Carbon Silo</td>
<td>Activated Carbon</td>
<td>80.0 tons</td>
</tr>
<tr>
<td>EP-165B</td>
<td>EU-165B</td>
<td>Unit #4 Activated Carbon Silo</td>
<td>Activated Carbon</td>
<td>80.0 tons</td>
</tr>
</tbody>
</table>

**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.

**Opacity**

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Visible Emissions</td>
<td>NA</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 07-A-387-P; 07-A-388-P 567 IAC 23.3(2) &quot;d&quot;</td>
<td>BACT</td>
</tr>
</tbody>
</table>

**Particulate Matter (PM₁₀)**

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.005 gr/dscf</td>
<td>3-Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 07-A-387-P; 07-A-388-P</td>
<td>BACT</td>
</tr>
<tr>
<td>0.03 lb/hr</td>
<td>3-Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 07-A-387-P; 07-A-388-P</td>
<td>NAAQS</td>
</tr>
</tbody>
</table>

**Particulate Matter (PM)**

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.005 gr/dscf</td>
<td>3-Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 07-A-387-P; 07-A-388-P</td>
<td>BACT</td>
</tr>
</tbody>
</table>
Operational Limits & Requirements
*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Operational limits are not required at this time.

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

Stack Height, (ft, from the ground): 62
Stack Opening, (inches): 15×15
Exhaust Flow Rate (scfm): 300
Exhaust Temperature (°F): 70
Discharge Style: Downward


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

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

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

Authority for Requirement: 567 IAC 22.108(3)
**Emission Point ID Number:** EP-167

**Associated Equipment**

Associated Emission Unit ID Numbers: EU-167  
Emissions Control Equipment ID Number: CE-167  
Emissions Control Equipment Description: Baghouse  
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-167  
Emission Unit Description: Unit #4 Flyash/FGD Waste Silo  
Raw Material/Fuel: Flyash/FGD Waste  
Rated Capacity: 2,840 tons capacity; 65.0 ton/hr fill rate

**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.*

**Opacity**

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Visible Emissions</td>
<td>NA</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-433-P3</td>
<td>BACT</td>
</tr>
<tr>
<td>40%</td>
<td>6-Minutes Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-433-P3 567 IAC 23.3(2) &quot;a&quot;</td>
<td>None</td>
</tr>
</tbody>
</table>

**Particulate Matter (PM$_{10}$)**

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.005 gr/dscf</td>
<td>3-Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-433-P3</td>
<td>BACT</td>
</tr>
<tr>
<td>0.13 lb/hr</td>
<td>3-Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-433-P3</td>
<td>NAAQS</td>
</tr>
</tbody>
</table>

**Particulate Matter (PM)**

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.005 gr/dscf</td>
<td>3-Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 03-A-433-P3</td>
<td>BACT</td>
</tr>
</tbody>
</table>
Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operational limits are not required at this time.

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 126
- Stack Opening, (inches, dia.): 10
- Exhaust Flow Rate (scfm): 2,600
- Exhaust Temperature (°F): 160
- Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 03-A-433-P3

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: Unit #4 Flyash/FGD Waste and Recycle

Associated Equipment

Table -1

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Emission Unit Description</th>
<th>Raw Material</th>
<th>Rated Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-168</td>
<td>EU-168</td>
<td>Unit #4 Flyash/FGD Waste Exhauster#1</td>
<td>Flyash/FGD Waste</td>
<td>65.00 ton/hr</td>
</tr>
<tr>
<td>EP-169</td>
<td>EU-169</td>
<td>Unit #4 Flyash/FGD Waste Exhauster#2</td>
<td>Flyash/FGD Waste</td>
<td>65.00 ton/hr</td>
</tr>
<tr>
<td>EP-170</td>
<td>EU-170</td>
<td>Unit #4 Flyash/FGD Waste Exhauster#3</td>
<td>Flyash/FGD Waste</td>
<td>65.00 ton/hr</td>
</tr>
<tr>
<td>EP-171</td>
<td>EU-171</td>
<td>Unit #4 Flyash/FGD Recycle Exhauster#1</td>
<td>Flyash/FGD Waste</td>
<td>65.0 ton/hr</td>
</tr>
<tr>
<td>EP-172</td>
<td>EU-172</td>
<td>Unit #4 Flyash/FGD Recycle Exhauster#2</td>
<td>Flyash/FGD Waste</td>
<td>65.0 ton/hr</td>
</tr>
<tr>
<td>EP-173</td>
<td>EU-173</td>
<td>Unit #4 Flyash/FGD Recycle Exhauster #3</td>
<td>Flyash/FGD Waste</td>
<td>65.0 ton/hr</td>
</tr>
</tbody>
</table>

Table -2

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Emission Unit Description</th>
<th>CE&amp; Description</th>
<th>CEM</th>
<th>IDNR Construction Permit</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-168</td>
<td>EU-168</td>
<td>Unit #4 Flyash/FGD Waste Exhauster#1</td>
<td>CE-168/Baghouse</td>
<td>None</td>
<td>03-A-430-P2</td>
</tr>
<tr>
<td>EP-169</td>
<td>EU-169</td>
<td>Unit #4 Flyash/FGD Waste Exhauster#2</td>
<td>CE-169/Baghouse</td>
<td>None</td>
<td>03-A-431-P2</td>
</tr>
<tr>
<td>EP-170</td>
<td>EU-170</td>
<td>Unit #4 Flyash/FGD Waste Exhauster#3</td>
<td>CE-168 &amp; CE-169/Baghouse</td>
<td>None</td>
<td>03-A-432-P2</td>
</tr>
<tr>
<td>EP-171</td>
<td>EU-171</td>
<td>Unit #4 Flyash/FGD Recycle Exhauster#1</td>
<td>CE-171/Baghouse</td>
<td>None</td>
<td>07-A-389-P</td>
</tr>
<tr>
<td>EP-172</td>
<td>EU-172</td>
<td>Unit #4 Flyash/FGD Recycle Exhauster#2</td>
<td>CE-172/Baghouse</td>
<td>None</td>
<td>07-A-390-P</td>
</tr>
<tr>
<td>EP-173</td>
<td>EU-173</td>
<td>Unit #4 Flyash/FGD Recycle Exhauster #3</td>
<td>CE-171 or CE-172 Baghouse</td>
<td>None</td>
<td>07-A-391-P</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>EP</th>
<th>Opacity(^1)</th>
<th>Opacity(^2,3)</th>
<th>PM(^4)</th>
<th>PM(_{10})(^5)</th>
<th>PM(_{10})(^6)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-168</td>
<td>5%</td>
<td>40%</td>
<td>0.005 gr/dscf</td>
<td>0.005 gr/dscf</td>
<td>0.15 lb/hr</td>
<td>DNR Construction Permit 03-A-430-P2</td>
</tr>
<tr>
<td>EP-169</td>
<td>5%</td>
<td>40%</td>
<td>0.005 gr/dscf</td>
<td>0.005 gr/dscf</td>
<td>0.15 lb/hr</td>
<td>DNR Construction Permit 03-A-431-P2</td>
</tr>
<tr>
<td>EP-170</td>
<td>5%</td>
<td>40%</td>
<td>0.005 gr/dscf</td>
<td>0.005 gr/dscf</td>
<td>0.15 lb/hr</td>
<td>DNR Construction Permit 03-A-432-P2</td>
</tr>
<tr>
<td>EP-171</td>
<td>5%</td>
<td>40%</td>
<td>0.005 gr/dscf</td>
<td>0.005 gr/dscf</td>
<td>0.20 lb/hr</td>
<td>DNR Construction Permit 07-A-389-P</td>
</tr>
<tr>
<td>EP-172</td>
<td>5%</td>
<td>40%</td>
<td>0.005 gr/dscf</td>
<td>0.005 gr/dscf</td>
<td>0.20 lb/hr</td>
<td>DNR Construction Permit 07-A-390-P</td>
</tr>
<tr>
<td>EP-173</td>
<td>5%</td>
<td>40%</td>
<td>0.005 gr/dscf</td>
<td>0.005 gr/dscf</td>
<td>0.20 lb/hr</td>
<td>DNR Construction Permit 07-A-391-P</td>
</tr>
</tbody>
</table>

\(^1\) BACT limits.
\(^2\) Standard is 1-hr limit.
\(^3\) Standard is 6-minute average.
\(^4\) 567 IAC 23.3(2) "a"
\(^5\) Limits is used to demonstrate no exceedance of NAAQS.
**Operational Limits & Requirements**

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

**Operating Limits**

A. The facility is required to schedule a PM10 compliance test within thirty (30) days if it exceeds the one (1) hour, 5% BACT opacity limit.

Authority for Requirement: DNR Construction Permits see Table 2

**Emission Point Characteristics**

The emission point shall conform to the specifications listed below.

<table>
<thead>
<tr>
<th></th>
<th>Stack Height (ft, from the ground)</th>
<th>Stack Opening (dia. inch)</th>
<th>Exhaust Flow Rate (scfm)</th>
<th>Exhaust Temperature (°F)</th>
<th>Discharge Style</th>
<th>Authority for Requirement IDNR Construction Permit</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-168</td>
<td>13</td>
<td>14</td>
<td>3,100</td>
<td>160</td>
<td>Horizontal</td>
<td>03-A-430-P2</td>
</tr>
<tr>
<td>EP-169</td>
<td>13</td>
<td>14</td>
<td>3,100</td>
<td>160</td>
<td>Horizontal</td>
<td>03-A-431-P2</td>
</tr>
<tr>
<td>EP-170</td>
<td>13</td>
<td>14</td>
<td>3,100</td>
<td>160</td>
<td>Horizontal</td>
<td>03-A-432-P2</td>
</tr>
<tr>
<td>EP-172</td>
<td>13</td>
<td>14.4</td>
<td>4,000</td>
<td>160</td>
<td>Horizontal</td>
<td>07-A-390-P</td>
</tr>
</tbody>
</table>

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

**Monitoring Requirements**

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

<table>
<thead>
<tr>
<th>Agency Approved Operation &amp; Maintenance Plan Required?</th>
<th>Yes ☑ No ☒</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility Maintained Operation &amp; Maintenance Plan Required?</td>
<td>Yes ☑ No ☒</td>
</tr>
<tr>
<td>Compliance Assurance Monitoring (CAM) Plan Required?</td>
<td>Yes ☑ No ☒</td>
</tr>
</tbody>
</table>

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 maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.
Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)
**Emission Point ID Number:** EP-174

**Associated Equipment**

Associated Emission Unit ID Numbers: EU-174  
Emissions Control Equipment ID Number: CE-174  
Emissions Control Equipment Description: Baghouse  
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-174  
Emission Unit Description: Unit #4 Flyash/FGD Recycle Silo  
Raw Material/Fuel: Flyash/FGD Material  
Rated Capacity: 130 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.*

#### Opacity

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Visible Emissions</td>
<td>NA</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 07-A-392-P2</td>
<td>BACT</td>
</tr>
<tr>
<td>40%</td>
<td>6-Minutes Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 07-A-392-P2 567 IAC 23.3(2) &quot;d&quot;</td>
<td>NA</td>
</tr>
</tbody>
</table>

#### Particulate Matter (PM$_{10}$)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
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</tr>
</thead>
<tbody>
<tr>
<td>0.005 gr/dscf</td>
<td>3-Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 07-A-392-P2</td>
<td>BACT</td>
</tr>
<tr>
<td>0.03 lb/hr</td>
<td>3-Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 07-A-392-P2</td>
<td>NAAQS</td>
</tr>
</tbody>
</table>

#### Particulate Matter (PM)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.005 gr/dscf</td>
<td>3-Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 07-A-392-P2</td>
<td>BACT</td>
</tr>
</tbody>
</table>
Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Limits
A. The combined silo fill rate of the operating recycle ash and backup ash transport systems shall not exceed 130 tons/hr.

Recordkeeping and Reporting Requirements
B. The date, hours of operating for each half of the 130 ton/hr recycle ash transport system, and the hours of operation for each half of the 60 ton/hr backup transport system.

Authority for Requirement: DNR Construction Permit 07-A-392-P2

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 103.8
Stack Opening, (inches, dia.): 5
Exhaust Flow Rate (scfm): 550
Exhaust Temperature (°F): 160
Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 07-A-392-P2

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

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

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

Associated Equipment

Table -1

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Emission Unit Description</th>
<th>Raw Material</th>
<th>Rated Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-180</td>
<td>EU-180</td>
<td>Unit #4 Water Treatment Area Lime Storage Silo A</td>
<td>Lime</td>
<td>80.00 tons</td>
</tr>
<tr>
<td>EP-181</td>
<td>EU-181</td>
<td>Unit #4 Water Treatment Area Lime Storage Silo B</td>
<td>Lime</td>
<td>80.00 tons</td>
</tr>
<tr>
<td>EP-182</td>
<td>EU-182</td>
<td>Unit #4 Water Treatment - Soda Ash Silo</td>
<td>Soda Ash</td>
<td>225.0 tons</td>
</tr>
</tbody>
</table>

Table -2

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Emission Unit Description</th>
<th>CE&amp; Description</th>
<th>CEM</th>
<th>IDNR Construction Permit</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-180</td>
<td>EU-180</td>
<td>Unit #4 Water Treatment Area Lime Storage Silo A</td>
<td>CE-180/Baghouse</td>
<td>None</td>
<td>07-A-393-P</td>
</tr>
<tr>
<td>EP-182</td>
<td>EU-182</td>
<td>Unit #4 Water Treatment - Soda Ash Silo</td>
<td>CE-182/Baghouse</td>
<td>None</td>
<td>07-A-395-P</td>
</tr>
</tbody>
</table>

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.

Opacity

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Visible Emissions</td>
<td>NA</td>
<td>Stack Testing</td>
<td>See Table 2</td>
<td>BACT</td>
</tr>
<tr>
<td>40%</td>
<td>6-Minutes Average</td>
<td>Stack Testing</td>
<td>See Table 2 for permit numbers 567 IAC 23.3(2) “d”</td>
<td>NA</td>
</tr>
</tbody>
</table>

Particulate Matter (PM$_{10}$)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.005 gr/dscf</td>
<td>3-Run Average</td>
<td>Stack Testing</td>
<td>See Table 2</td>
<td>BACT</td>
</tr>
<tr>
<td>0.10 lb/hr</td>
<td>3-Run Average</td>
<td>Stack Testing</td>
<td>See Table 2</td>
<td>NAAQS</td>
</tr>
</tbody>
</table>

Particulate Matter (PM)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.005 gr/dscf</td>
<td>3-Run Average</td>
<td>Stack Testing</td>
<td>See Table 2</td>
<td>BACT</td>
</tr>
</tbody>
</table>
Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operational limits are not required at this time.

Emission Point Characteristics
The emission points shall conform to the specifications listed below.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Stack Height, (ft, from the ground)</td>
<td>80.8</td>
<td>80.8</td>
<td>80.8</td>
</tr>
<tr>
<td>Stack Opening (inches)</td>
<td>48×48</td>
<td>48×48</td>
<td>48×48</td>
</tr>
<tr>
<td>Exhaust Flow Rate (scfm)</td>
<td>1,200</td>
<td>1,200</td>
<td>1,200</td>
</tr>
<tr>
<td>Exhaust Temperature (°F)</td>
<td>70</td>
<td>70</td>
<td>70</td>
</tr>
<tr>
<td>Discharge Style</td>
<td>Downward</td>
<td>Downward</td>
<td>Downward</td>
</tr>
</tbody>
</table>

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: EP-200

Associated Equipment

Associated Emission Unit ID Numbers: EU-200
Emissions Control Equipment ID Number: CE-200
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-200
Emission Unit Description: Unit #3 Flyash/FGD Waste Silo
Raw Material/Fuel: Flyash/FGD Waste
Rated Capacity: 2,850.0 tons

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.

Opacity

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Visible Emissions</td>
<td>NA</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 06-A-766-P1</td>
<td>BACT</td>
</tr>
<tr>
<td>40%</td>
<td>6-Minutes Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 06-A-766-P1 567 IAC 23.3(2) &quot;d&quot;</td>
<td>NA</td>
</tr>
</tbody>
</table>

Particulate Matter (PM$_{10}$)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.005 gr/dscf</td>
<td>3-Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 06-A-766-P1</td>
<td>BACT</td>
</tr>
<tr>
<td>0.12 lb/hr</td>
<td>3-Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 06-A-766-P1</td>
<td>NAAQS</td>
</tr>
</tbody>
</table>

Particulate Matter (PM)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.005 gr/dscf</td>
<td>3-Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 06-A-766-P1</td>
<td>BACT</td>
</tr>
</tbody>
</table>
Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Limits

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

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

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

Authority for Requirement: DNR Construction Permit 06-A-766-P1

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 137
Stack Opening, (inches): 8×30
Exhaust Flow Rate (scfm): 2,914
Exhaust Temperature (°F): 150
Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 06-A-766-P1

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

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

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

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

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

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

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

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

Authority for Requirement:  567 IAC 22.108(3)

Associated Equipment

Table -1

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Emission Unit Description</th>
<th>Raw Material</th>
<th>Rated Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-201</td>
<td>EU-201</td>
<td>Unit #3 Flyash/FGD Waste Exhauster#1</td>
<td>Flyash/FGD Waste</td>
<td>51.0 ton/hr</td>
</tr>
<tr>
<td>EP-202</td>
<td>EU-202</td>
<td>Unit #3 Flyash/FGD Waste Exhauster#2</td>
<td>Flyash/FGD Waste</td>
<td>51.0 ton/hr</td>
</tr>
<tr>
<td>EP-203</td>
<td>EU-203</td>
<td>Unit #3 Flyash/FGD Waste Exhauster#3</td>
<td>Flyash/FGD Waste</td>
<td>51.0 ton/hr</td>
</tr>
</tbody>
</table>

Table -2

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Emission Unit Description</th>
<th>CE&amp; Description</th>
<th>CEM</th>
<th>IDNR Construction Permit</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-201</td>
<td>EU-201</td>
<td>Unit #3 Flyash/FGD Waste Exhauster#1</td>
<td>CE-201/Baghouse</td>
<td>None</td>
<td>06-A-767-P1</td>
</tr>
<tr>
<td>EP-202</td>
<td>EU-202</td>
<td>Unit #3 Flyash/FGD Waste Exhauster#2</td>
<td>CE-201 or CE-202/Baghouse</td>
<td>None</td>
<td>06-A-768-P1</td>
</tr>
<tr>
<td>EP-203</td>
<td>EU-203</td>
<td>Unit #3 Flyash/FGD Waste Exhauster#3</td>
<td>CE-202/Baghouse</td>
<td>None</td>
<td>08-A-636-P</td>
</tr>
</tbody>
</table>

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.

Opacity

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>5%</td>
<td>1-Hr Average</td>
<td>Stack Testing</td>
<td>See Table 2</td>
<td>BACT</td>
</tr>
<tr>
<td>40%</td>
<td>6-Minutes Average</td>
<td>Stack Testing</td>
<td>Construction permits in Table 2</td>
<td>NA</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.005 gr/dscf</td>
<td>3-Run Average</td>
<td>Stack Testing</td>
<td>See Table 2</td>
<td>BACT</td>
</tr>
<tr>
<td>0.14 lb/hr</td>
<td>3-Run Average</td>
<td>Stack Testing</td>
<td>See Table 2</td>
<td>NAAQS</td>
</tr>
</tbody>
</table>

Particulate Matter (PM)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.005 gr/dscf</td>
<td>3-Run Average</td>
<td>Stack Testing</td>
<td>See Table 2</td>
<td>BACT</td>
</tr>
</tbody>
</table>
Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Limits
A. The facility is required to schedule a PM and PM10 compliance test within 30 days if it exceeds the one (1) hour, 5% opacity BACT limit.
B. The owner or operator shall inspect and maintain the control equipment according to manufacturer's specifications.

Reporting and Recordkeeping
All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.
A. The owner or operator shall keep records of control equipment inspections and maintenance.

Authority for Requirement: DNR Construction Permit see Table 2

Emission Point Characteristics
The emission points shall conform to the specifications listed below.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Stack Height (ft, from the ground)</td>
<td>30</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>Stack Opening (inches)</td>
<td>13.25</td>
<td>13.25</td>
<td>13.25</td>
</tr>
<tr>
<td>Exhaust Flow Rate (scfm)</td>
<td>3,296</td>
<td>3,296</td>
<td>3,296</td>
</tr>
<tr>
<td>Exhaust Temperature (°F)</td>
<td>255</td>
<td>255</td>
<td>255</td>
</tr>
<tr>
<td>Discharge Style</td>
<td>Vertical Unobstructed</td>
<td>Vertical Unobstructed</td>
<td>Vertical Unobstructed</td>
</tr>
<tr>
<td>Authority for Requirement</td>
<td>06-A-767-P1</td>
<td>06-A-768-P1</td>
<td>08-A-636-P</td>
</tr>
</tbody>
</table>

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

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

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

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

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements. The data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

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

Authority for Requirement:  567 IAC 22.108(3)
Emission Point ID Number: EP-204, EP-205 (Unit #3 Lime Unloading Exhausters)

Associated Equipment

Table -1

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Emission Unit Description</th>
<th>Raw Material</th>
<th>Rated Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-204</td>
<td>EU-204</td>
<td>Unit #3 Lime Unloading Exhauster#1</td>
<td>Lime</td>
<td>25.0 ton/hr</td>
</tr>
<tr>
<td>EP-205</td>
<td>EU-205</td>
<td>Unit #3 Lime Unloading Exhauster#2</td>
<td>Lime</td>
<td>25.0 ton/hr</td>
</tr>
</tbody>
</table>

Table -2

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Emission Unit Description</th>
<th>CE&amp; Description</th>
<th>CEM</th>
<th>IDNR Construction Permit</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-204</td>
<td>EU-204</td>
<td>Unit #3 Lime Unloading Exhauster#1</td>
<td>CE-204/Baghouse</td>
<td>None</td>
<td>06-A-769-P1</td>
</tr>
<tr>
<td>EP-205</td>
<td>EU-205</td>
<td>Unit #3 Lime Unloading Exhauster#2</td>
<td></td>
<td>None</td>
<td>06-A-770-P1</td>
</tr>
</tbody>
</table>

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.

Opacity

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>5%</td>
<td>1-Hr Average</td>
<td>Stack Testing</td>
<td>See Table 2</td>
<td>BACT</td>
</tr>
<tr>
<td>40%</td>
<td>6-Minutes Average</td>
<td>Stack Testing</td>
<td>Construction permits in Table2 567 IAC 23.3(2) &quot;d&quot;</td>
<td>NA</td>
</tr>
</tbody>
</table>

Particulate Matter (PM$_{10}$)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.01 gr/dscf</td>
<td>3-Run Average</td>
<td>Stack Testing</td>
<td>See Table 2</td>
<td>BACT</td>
</tr>
<tr>
<td>0.14 lb/hr</td>
<td>3-Run Average</td>
<td>Stack Testing</td>
<td>See Table 2</td>
<td>NAAQS</td>
</tr>
</tbody>
</table>

Particulate Matter (PM)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.01 gr/dscf</td>
<td>3-Run Average</td>
<td>Stack Testing</td>
<td>See Table 2</td>
<td>BACT</td>
</tr>
</tbody>
</table>
Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Limits
A. The facility is required to schedule a PM and PM10 compliance test within 30 days if it exceeds the one (1) hour, 5% opacity BACT limit.
B. The owner or operator shall inspect and maintain the control equipment according to manufacturer's specifications.

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

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

Authority for Requirement: DNR Construction Permit 06-A-769-P1; 06-A-770-P1

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

<table>
<thead>
<tr>
<th></th>
<th>EP-204</th>
<th>EP-205</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stack Height, (ft, from the ground)</td>
<td>40</td>
<td>40</td>
</tr>
<tr>
<td>Stack Opening (inches)</td>
<td>10.25</td>
<td>10.25</td>
</tr>
<tr>
<td>Exhaust Flow Rate (scfm)</td>
<td>1,633</td>
<td>1,633</td>
</tr>
<tr>
<td>Exhaust Temperature (°F)</td>
<td>180</td>
<td>180</td>
</tr>
<tr>
<td>Discharge Style</td>
<td>Vertical Unobstructed</td>
<td>Vertical Unobstructed</td>
</tr>
<tr>
<td>Authority for Requirement</td>
<td>06-A-769-P1</td>
<td>06-A-770-P1</td>
</tr>
</tbody>
</table>

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

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

- **Agency Approved Operation & Maintenance Plan Required?**
  - Yes [ ]
  - No [x]

- **Facility Maintained Operation & Maintenance Plan Required?**
  - Yes [x]
  - No [ ]

- **Compliance Assurance Monitoring (CAM) Plan Required?**
  - Yes [ ]
  - No [x]

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

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

Authority for Requirement: 567 IAC 22.108(3)
**Emission Point ID Number:** EP-207

**Associated Equipment**
Associated Emission Unit ID Numbers: EU-207  
Emissions Control Equipment ID Number: CE-207  
Emissions Control Equipment Description: Baghouse  
Continuous Emissions Monitors ID Numbers: None

---

Emission Unit vented through this Emission Point: EU-207  
Emission Unit Description: Unit #3 Lime Silo  
Raw Material/Fuel: Lime  
Rated Capacity: 1,875.0 tons

---

**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.*

### Opacity

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Visible Emissions</td>
<td>1-Hr Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 06-A-772-P1</td>
<td>BACT</td>
</tr>
<tr>
<td>40%</td>
<td>6-Minutes Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 06-A-772-P1 567 IAC 23.3(2) &quot;d&quot;</td>
<td>NA</td>
</tr>
</tbody>
</table>

### Particulate Matter (PM$_{10}$)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.01 gr/dscf</td>
<td>NA</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 06-A-772-P1</td>
<td>BACT</td>
</tr>
<tr>
<td>0.24 lb/hr</td>
<td>3-Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 06-A-772-P1</td>
<td>NAAQS</td>
</tr>
</tbody>
</table>

### Particulate Matter (PM)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.01 gr/dscf</td>
<td>NA</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 06-A-772-P1</td>
<td>BACT</td>
</tr>
</tbody>
</table>
**Operational Limits & Requirements**

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

**Operating Limits**

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

**Reporting and Recordkeeping**

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

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

Authority for Requirement:  DNR Construction Permit 06-A-772-P1

**Emission Point Characteristics**

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 143
- Stack Opening, (inches): 10×15
- Exhaust Flow Rate (scfm): 2,800
- Exhaust Temperature (°F): Ambient
- Discharge Style: Horizontal

Authority for Requirement:  DNR Construction Permit 06-A-772-P1

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

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

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

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

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

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements. The data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

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

Authority for Requirement:  567 IAC 22.108(3)
**Emission Point ID Number: EP-208**

**Associated Equipment**

Associated Emission Unit ID Numbers: EU-208  
Emissions Control Equipment ID Number: CE-208  
Emissions Control Equipment Description: Baghouse  
Continuous Emissions Monitors ID Numbers: None

---

Emission Unit vented through this Emission Point: EU-208  
Emission Unit Description: Unit #3 Recycle Ash Silo  
Raw Material/Fuel: Flyash/FGD Waste  
Rated Capacity: 550 tons

**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.*

**Opacity**

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Visible Emissions</td>
<td>1-Hr Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 06-A-773-P1</td>
<td>BACT</td>
</tr>
<tr>
<td>40%</td>
<td>6-Minutes Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 06-A-773-P1</td>
<td>NA</td>
</tr>
</tbody>
</table>

**Particulate Matter (PM_{10})**

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.005 gr/dscf</td>
<td>NA</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 06-A-773-P1</td>
<td>BACT</td>
</tr>
<tr>
<td>0.06 lb/hr</td>
<td>3-Run Average</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 06-A-773-P1</td>
<td>NAAQS</td>
</tr>
</tbody>
</table>

**Particulate Matter (PM)**

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.005 gr/dscf</td>
<td>NA</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 06-A-773-P1</td>
<td>BACT</td>
</tr>
</tbody>
</table>
Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Limits

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

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

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

Authority for Requirement:  DNR Construction Permit 06-A-773-P1

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 114
Stack Opening, (inches): 8×14
Exhaust Flow Rate (scfm): 1,477
Exhaust Temperature (°F): 150
Discharge Style: Horizontal

Authority for Requirement:  DNR Construction Permit 06-A-773-P1

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

<table>
<thead>
<tr>
<th>Agency Approved Operation &amp; Maintenance Plan Required?</th>
<th>Yes ☐ No ☒</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility Maintained Operation &amp; Maintenance Plan Required?</td>
<td>Yes ☐ No ☒</td>
</tr>
<tr>
<td>Compliance Assurance Monitoring (CAM) Plan Required?</td>
<td>Yes ☐ No ☒</td>
</tr>
</tbody>
</table>

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

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

Authority for Requirement: 567 IAC 22.108(3)

Associated Equipment

Table -1

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Emission Unit Description</th>
<th>Raw Material</th>
<th>Rated Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-209</td>
<td>EU-209</td>
<td>Unit #3 Flyash/FGD Recycle Exhauster#1</td>
<td>Flyash/FGD Waste</td>
<td>74.50 ton/hr</td>
</tr>
<tr>
<td>EP-210</td>
<td>EU-210</td>
<td>Unit #3 Flyash/FGD Recycle Exhauster#2</td>
<td>Flyash/FGD Waste</td>
<td>74.50 ton/hr</td>
</tr>
<tr>
<td>EP-211</td>
<td>EU-211</td>
<td>Unit #3 Flyash/FGD Recycle Exhauster#3</td>
<td>Flyash/FGD Waste</td>
<td>74.50 ton/hr</td>
</tr>
</tbody>
</table>

Table -2

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Emission Unit Description</th>
<th>CE&amp; Description</th>
<th>CEM</th>
<th>IDNR Construction Permit</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-209</td>
<td>EU-209</td>
<td>Unit #3 Flyash/FGD Recycle Exhauster#1</td>
<td>CE-209/Baghouse</td>
<td>None</td>
<td>06-A-774-P1</td>
</tr>
<tr>
<td>EP-210</td>
<td>EU-210</td>
<td>Unit #3 Flyash/FGD Recycle Exhauster#2</td>
<td>CE-209 or CE-210/Baghouse</td>
<td>None</td>
<td>06-A-775-P1</td>
</tr>
<tr>
<td>EP-211</td>
<td>EU-211</td>
<td>Unit #3 Flyash/FGD Recycle Exhauster#3</td>
<td>CE-210/Baghouse</td>
<td>None</td>
<td>06-A-776-P1</td>
</tr>
</tbody>
</table>

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.

Opacity

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>5%</td>
<td>1-Hr Average</td>
<td>Stack Testing</td>
<td>See Table 2 for permit numbers</td>
<td>BACT</td>
</tr>
<tr>
<td>40%</td>
<td>6-Minutes Average</td>
<td>Stack Testing</td>
<td>See Table 2 for permit numbers 567 IAC 23.3(2) &quot;d&quot;</td>
<td>NA</td>
</tr>
</tbody>
</table>

Particulate Matter (PM₁₀)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.005 gr/dscf</td>
<td>NA</td>
<td>Stack Testing</td>
<td>See Table 2 for permit numbers</td>
<td>BACT</td>
</tr>
<tr>
<td>0.18 lb/hr</td>
<td>3-Run Average</td>
<td>Stack Testing</td>
<td>See Table 2 for permit numbers</td>
<td>NAAQS</td>
</tr>
</tbody>
</table>

Particulate Matter (PM)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.005 gr/dscf</td>
<td>NA</td>
<td>Stack Testing</td>
<td>See Table 2 for permit numbers</td>
<td>BACT</td>
</tr>
</tbody>
</table>
Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Limits
A. The facility is required to schedule a PM and PM10 compliance test within 30 days if it exceeds the one (1) hour, 5% opacity BACT limit.
B. The owner or operator shall inspect and maintain the control equipment according to manufacturer's specifications.

Reporting and Recordkeeping
All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.
A. The owner or operator shall keep records of control equipment inspections and maintenance.

Authority for Requirement: DNR Construction Permit see Table 2

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Stack Height, (ft, from the ground)</td>
<td>34</td>
<td>34</td>
<td>34</td>
</tr>
<tr>
<td>Stack Opening (inches)</td>
<td>13.25</td>
<td>13.25</td>
<td>13.25</td>
</tr>
<tr>
<td>Exhaust Flow Rate (scfm)</td>
<td>4,113</td>
<td>4,113</td>
<td>4,113</td>
</tr>
<tr>
<td>Exhaust Temperature (°F)</td>
<td>255</td>
<td>255</td>
<td>255</td>
</tr>
<tr>
<td>Discharge Style</td>
<td>Vertical Unobstructed</td>
<td>Vertical Unobstructed</td>
<td>Vertical Unobstructed</td>
</tr>
<tr>
<td>Authority for Requirement</td>
<td>06-A-774-P1</td>
<td>06-A-775-P1</td>
<td>06-A-776-P1</td>
</tr>
</tbody>
</table>

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

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

Agency Approved Operation & Maintenance Plan Required?  
Yes [ ] No [x]

Facility Maintained Operation & Maintenance Plan Required?  
Yes [x] No [ ]

Compliance Assurance Monitoring (CAM) Plan Required?  
Yes [ ] No [x]

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

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

Authority for Requirement:  567 IAC 22.108(3)
Emission Point ID Number: EP-212

Associated Equipment

Table -1

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Emission Unit Description</th>
<th>Raw Material</th>
<th>Rated Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-212</td>
<td>EU-212</td>
<td>Mercury (Hg) Control Sorbent Storage Silo</td>
<td>Activate Carbon/Amended Silica Compounds</td>
<td>79 ton</td>
</tr>
</tbody>
</table>

Table -2

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Emission Unit Description</th>
<th>CE&amp; Description</th>
<th>CEM</th>
<th>IDNR Construction Permit</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-212</td>
<td>EU-212</td>
<td>Mercury (Hg) Control Sorbent Storage Silo</td>
<td>CE 212, Bin Vent Filter</td>
<td>None</td>
<td>14-A-461-P1</td>
</tr>
</tbody>
</table>

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.

Opacity

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>No visible emissions (No VE)</td>
<td>NA</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 14-A-461-P1</td>
<td>BACT</td>
</tr>
</tbody>
</table>

Particulate Matter (PM$_{2.5}$)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.002 gr/dscf</td>
<td>Average of three (3) runs</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 14-A-461-P1</td>
<td>BACT</td>
</tr>
<tr>
<td>0.013 lb/hr</td>
<td>Average of three (3) runs</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 14-A-461-P1</td>
<td>None</td>
</tr>
</tbody>
</table>
Particulate Matter (PM\textsubscript{10})

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.005 gr/dscf</td>
<td>Average of three (3) runs</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 14-A-461-P1</td>
<td>BACT</td>
</tr>
<tr>
<td>0.013 lb/hr</td>
<td>Average of three (3) runs</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 14-A-461-P1</td>
<td>None</td>
</tr>
</tbody>
</table>

Particulate Matter (PM)

<table>
<thead>
<tr>
<th>Limit</th>
<th>Averaging Period</th>
<th>Compliance Demonstration Method</th>
<th>Authority for Requirement</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.005 gr/dscf</td>
<td>Average of three (3) runs</td>
<td>Stack Testing</td>
<td>DNR Construction Permit 14-A-461-P1</td>
<td>BACT</td>
</tr>
<tr>
<td>0.1 gr/dscf</td>
<td>Average of three (3) runs</td>
<td>Stack Testing</td>
<td>IAC 567 23.3(2)&quot;a&quot;</td>
<td>None</td>
</tr>
</tbody>
</table>

**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 (CE 212) shall be inspected and maintained according to manufacturer’s specifications.

**Reporting 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. These records shall show the following:

A. A record of all inspections and maintenance on the control equipment (CE 212).

Authority for Requirement: DNR Construction Permit 14-A-461-P1

**Emission Point Characteristics**

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

- Stack Height, (ft, from the ground): 73
- Stack Opening, (inches): 8×10
- Exhaust Flow Rate (scfm): 900
- Exhaust Temperature (°F): 68
- Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 14-A-461-P1
The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flow rate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)
IV. General Conditions

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

G1. Duty to Comply

1. The permittee must comply with all conditions of the Title V permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for a permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. 567 IAC 22.108(9)“a”

2. Any compliance schedule shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based. 567 IAC 22.105 (2)”h”(3)

3. Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be enforceable by the administrator and are incorporated into this permit. 567 IAC 22.108 (1)”b”

4. Unless specified as either "state enforceable only" or "local program enforceable only", all terms and conditions in the permit, including provisions to limit a source's potential to emit, are enforceable by the administrator and citizens under the Act. 567 IAC 22.108 (14)

5. It shall not be a defense for a permittee, in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. 567 IAC 22.108 (9)”b”

6. For applicable requirements with which the permittee is in compliance, the permittee shall continue to comply with such requirements. For applicable requirements that will become effective during the permit term, the permittee shall meet such requirements on a timely basis. 567 IAC 22.108(15)”c”

G2. Permit Expiration

1. Except as provided in rule 567—22.104(455B), permit expiration terminates a source’s right to operate unless a timely and complete application for renewal has been submitted in accordance with rule 567—22.105(455B). 567 IAC 22.116(2)

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

G3. Certification Requirement for Title V Related Documents

Any application, report, compliance certification or other document submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. All certifications shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. 567 IAC 22.107 (4)
G4. Annual Compliance Certification
By March 31 of each year, the permittee shall submit compliance certifications for the previous calendar year. The certifications shall include descriptions of means to monitor the compliance status of all emissions sources including emissions limitations, standards, and work practices in accordance with applicable requirements. The certification for a source shall include the identification of each term or condition of the permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with all applicable department rules. For sources determined not to be in compliance at the time of compliance certification, a compliance schedule shall be submitted which provides for periodic progress reports, dates for achieving activities, milestones, and an explanation of why any dates were missed and preventive or corrective measures. The compliance certification shall be submitted to the administrator, director, and the appropriate DNR Field office. 567 IAC 22.108 (15)"e"

G5. Semi-Annual Monitoring Report
By March 31 and September 30 of each year, the permittee shall submit a report of any monitoring required under this permit for the 6 month periods of July 1 to December 31 and January 1 to June 30, respectively. All instances of deviations from permit requirements must be clearly identified in these reports, and the report must be signed by a responsible official, consistent with 567 IAC 22.107(4). The semi-annual monitoring report shall be submitted to the director and the appropriate DNR Field office. 567 IAC 22.108 (5)

G6. Annual Fee
1. The permittee is required under subrule 567 IAC 22.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The emissions inventory shall be submitted annually by March 31 with forms specified by the department documenting actual emissions for the previous calendar year.
4. The fee shall be submitted annually by July 1 with forms specified by the department.
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.
6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d".
G7. Inspection of Premises, Records, Equipment, Methods and Discharges
Upon presentation of proper credentials and any other documents as may be required by law, the permittee shall allow the director or the director's authorized representative to:
1. Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
4. Sample or monitor, at reasonable times, substances or parameters for the purpose of ensuring compliance with the permit or other applicable requirements. 567 IAC 22.108 (15)“b”

G8. Duty to Provide Information
The permittee shall furnish to the director, within a reasonable time, any information that the director may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the director copies of records required to be kept by the permit, or for information claimed to be confidential, the permittee shall furnish such records directly to the administrator of EPA along with a claim of confidentiality. 567 IAC 22.108 (9)“e”

G9. General Maintenance and Repair Duties
The owner or operator of any air emission source or control equipment shall:
1. Maintain and operate the equipment or control equipment at all times in a manner consistent with good practice for minimizing emissions.
2. Remedy any cause of excess emissions in an expeditious manner.
3. Minimize the amount and duration of any excess emission to the maximum extent possible during periods of such emissions. These measures may include but not be limited to the use of clean fuels, production cutbacks, or the use of alternate process units or, in the case of utilities, purchase of electrical power until repairs are completed.
4. Schedule, at a minimum, routine maintenance of equipment or control equipment during periods of process shutdowns to the maximum extent possible. 567 IAC 24.2(1)

G10. Recordkeeping Requirements for Compliance Monitoring
1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:
   a. The date, place and time of sampling or measurements
   b. The date the analyses were performed.
   c. The company or entity that performed the analyses.
   d. The analytical techniques or methods used.
   e. The results of such analyses; and
   f. The operating conditions as existing at the time of sampling or measurement.
   g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)
2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.
3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:
   a. Comply with all terms and conditions of this permit specific to each alternative scenario.
   b. Maintain a log at the permitted facility of the scenario under which it is operating.
   c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. 567 IAC 22.108(4), 567 IAC 22.108(12)

G11. Evidence used in establishing that a violation has or is occurring.
Notwithstanding any other provisions of these rules, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any provisions herein.
1. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred at a source:
   a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 22;
   b. Compliance test methods specified in 567 Chapter 25; or
   c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.
2. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:
   a. Any monitoring or testing methods provided in these rules; or
   b. Other testing, monitoring, or information gathering methods that produce information comparable to that produced by any method in subrule 21.5(1) or this subrule. 567 IAC 21.5(1)-567 IAC 21.5(2)

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

G13. Hazardous Release
The permittee must report any situation involving the actual, imminent, or probable release of a hazardous substance into the atmosphere which, because of the quantity, strength and toxicity of the substance, creates an immediate or potential danger to the public health, safety or to the environment. A verbal report shall be made to the department at (515) 725-8694 and to the local police department or the office of the sheriff of the affected county as soon as possible but not later than six hours after the discovery or onset of the condition. This verbal report must be followed up with a written report as indicated in 567 IAC 131.2(2). 567 IAC Chapter 131-State Only

G14. Excess Emissions and Excess Emissions Reporting Requirements
1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a
violation. If the owner or operator of a source maintains that the incident of excess emission was
due to a malfunction, the owner or operator must show that the conditions which caused the
incident of excess emission were not preventable by reasonable maintenance and control
measures. Determination of any subsequent enforcement action will be made following review
of this report. If excess emissions are occurring, either the control equipment causing the excess
emission shall be repaired in an expeditious manner or the process generating the emissions shall
be shutdown within a reasonable period of time. An expeditious manner is the time necessary to
determine the cause of the excess emissions and to correct it within a reasonable period of time.
A reasonable period of time is eight hours plus the period of time required to shut down the
process without damaging the process equipment or control equipment. A variance from this
subrule may be available as provided for in Iowa Code section 455B.143. In the case of an
electric utility, a reasonable period of time is eight hours plus the period of time until comparable
generating capacity is available to meet consumer demand with the affected unit out of service,
unless, the director shall, upon investigation, reasonably determine that continued operation
constitutes an unjustifiable environmental hazard and issue an order that such operation is not in
the public interest and require a process shutdown to commence immediately.

2. Excess Emissions Reporting
   a. Initial Reporting of Excess Emissions. An incident of excess emission (other than an
      incident of excess emission during a period of startup, shutdown, or cleaning) shall be
      reported to the appropriate field office of the department within eight hours of, or at the
      start of the first working day following the onset of the incident. The reporting exemption
      for an incident of excess emission during startup, shutdown or cleaning does not relieve
      the owner or operator of a source with continuous monitoring equipment of the obligation
      of submitting reports required in 567-subrule 25.1(6). An initial report of excess emission
      is not required for a source with operational continuous monitoring equipment (as
      specified in 567-subrule 25.1(1) ) if the incident of excess emission continues for less
      than 30 minutes and does not exceed the applicable emission standard by more than 10
      percent or the applicable visible emission standard by more than 10 percent opacity. The
      initial report may be made by electronic mail (E-mail), in person, or by telephone and
      shall include as a minimum the following:
      i. The identity of the equipment or source operation from which the excess
         emission originated and the associated stack or emission point.
      ii. The estimated quantity of the excess emission.
      iii. The time and expected duration of the excess emission.
      iv. The cause of the excess emission.
      v. The steps being taken to remedy the excess emission.
      vi. The steps being taken to limit the excess emission in the interim period.
   b. Written Reporting of Excess Emissions. A written report of an incident of excess
      emission shall be submitted as a follow-up to all required initial reports to the department
      within seven days of the onset of the upset condition, and shall include as a minimum the
      following:
      i. The identity of the equipment or source operation point from which the excess
         emission originated and the associated stack or emission point.
      ii. The estimated quantity of the excess emission.
      iii. The time and duration of the excess emission.
      iv. The cause of the excess emission.
v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.
vi. The steps that were taken to limit the excess emission.
vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. 567 IAC 24.1(1)-567 IAC 24.1(4)

3. Emergency Defense for Excess Emissions. For the purposes of this permit, an “emergency” means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include non-compliance, to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation or operator error. An emergency constitutes an affirmative defense to an action brought for non-compliance with technology based limitations if it can be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that:
   a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
   b. The facility at the time was being properly operated;
   c. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements of the permit; and
   d. The permittee submitted notice of the emergency to the director by certified mail within two working days of the time when the emissions limitations were exceeded due to the emergency. This notice fulfills the requirement of paragraph 22.108(5)"b." – See G15. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

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

G15. Permit Deviation Reporting Requirements
A deviation is any failure to meet a term, condition or applicable requirement in the permit. Reporting requirements for deviations that result in a hazardous release or excess emissions have been indicated above (see G13 and G14). Unless more frequent deviation reporting is specified in the permit, any other deviation shall be documented in the semi-annual monitoring report and the annual compliance certification (see G4 and G5). 567 IAC 22.108(5)"b"

G16. Notification Requirements for Sources That Become Subject to NSPS and NESHAP Regulations
During the term of this permit, the permittee must notify the department of any source that becomes subject to a standard or other requirement under 567-subrule 23.1(2) (standards of performance of new stationary sources) or section 111 of the Act; or 567-subrule 23.1(3) (emissions standards for hazardous air pollutants), 567-subrule 23.1(4) (emission standards for hazardous air pollutants for source categories) or section 112 of the Act. This notification shall be submitted in writing to the department pursuant to the notification requirements in 40 CFR Section 60.7, 40 CFR Section 61.07, and/or 40 CFR Section 63.9. 567 IAC 23.1(2), 567 IAC 23.1(3), 567 IAC 23.1(4)
G17. Requirements for Making Changes to Emission Sources That Do Not Require Title V Permit Modification

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:
   a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.
   b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
   c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
   d. The changes are not subject to any requirement under Title IV of the Act (revisions affecting Title IV permitting are addressed in rules 567—22.140(455B) through 567 - 22.144(455B));
   e. The changes comply with all applicable requirements.
   f. For each such change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:
      i. A brief description of the change within the permitted facility,
      ii. The date on which the change will occur,
      iii. Any change in emission as a result of that change,
      iv. The pollutants emitted subject to the emissions trade
      v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
      vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
      vii. Any permit term or condition no longer applicable as a result of the change.

2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. 567 IAC 22.110(1)

3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). 567 IAC 22.110(3)

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

G18. Duty to Modify a Title V Permit
1. Administrative Amendment.
   a. An administrative permit amendment is a permit revision that does any of the following:
      i. Correct typographical errors
      ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;
      iii. Require more frequent monitoring or reporting by the permittee; or
      iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.
   b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.
   c. Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.

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

iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used; and

iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).

c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against the facility.

3. Significant Title V Permit Modification.

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

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

G19. Duty to Obtain Construction Permits

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

G20. Asbestos

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

G21. Open Burning

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

G22. Acid Rain (Title IV) Emissions Allowances
The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated there under. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners and operators of the unit or the designated representative of the owners and operators is prohibited. Exceedences of applicable emission rates are prohibited. “Held” in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. 567 IAC 22.108(7)

G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements
1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
   a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.
   b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.
   c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.
   d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.
2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:
   a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.
   b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.
   c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.
   d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. (“MVAC-like appliance” as defined at § 82.152)
   e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.
   f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.
3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.
4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight
sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant.

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

**G24. Permit Reopenings**

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

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

   a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;
   b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.
   c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. 567 IAC 22.108(17)“a”, 567 IAC 22.108(17)“b”

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

   a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;
   b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;
   c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.
   d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.
   e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. 567 IAC 22.114(1)
4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. 567 IAC 22.114(2)

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

G25. Permit Shield
1. The director may expressly include in a Title V permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:

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

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

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

G26. Severability
The provisions of this permit are severable and if any provision or application of any provision is found to be invalid by this department or a court of law, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected by such finding. 567 IAC 22.108 (8)

G27. Property Rights
The permit does not convey any property rights of any sort, or any exclusive privilege. 567 IAC 22.108 (9)"d"

G28. Transferability
This permit is not transferable from one source to another. If title to the facility or any part of it is transferred, an administrative amendment to the permit must be sought consistent with the requirements of 567 IAC 22.111(1). 567 IAC 22.111 (1)"d"

G29. Disclaimer
No review has been undertaken on the engineering aspects of the equipment or control equipment other than the potential of that equipment for reducing air contaminant emissions. 567 IAC 22.3(3)"c"

G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification
The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with applicable requirements of 567 – Chapter 23 or a permit condition. Such notice shall include the time, the place, the name of the person who will conduct the test.
and other information as required by the department. If the owner or operator does not provide timely notice to the department, the department shall not consider the test results or performance evaluation results to be a valid demonstration of compliance with applicable rules or permit conditions. Upon written request, the department may allow a notification period of less than 30 days. At the department’s request, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. A testing protocol shall be submitted to the department no later than 15 days before the owner or operator conducts the compliance demonstration. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department’s stack test contact in the form of a comprehensive report within six weeks of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner’s intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.

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

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

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

567 IAC 25.1(7)‘a”, 567 IAC 25.1(9)

531. 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)

532. Contacts List
The current address and phone number for reports and notifications to the EPA administrator is:

Chief of Air Permits
U.S. EPA Region 7
Air Permits and Compliance Branch
11201 Renner Blvd.
Lenexa, KS 66219
(913) 551-7020
The current address and phone number for reports and notifications to the department or the Director is:

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

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

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

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

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

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

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

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

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

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

Appendix A: CAM Plan for Coal Conveying Units

Compliance Assurance Monitoring Plan for Coal Conveying Units

I. Background

A. Emissions Unit:

<table>
<thead>
<tr>
<th>Facility</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MidAmerican Energy Co. – Walter Scott, Jr. Energy Center</td>
<td>Facility: EU-006: Rotary Car Dumper</td>
</tr>
<tr>
<td>EU-006: Rotary Car Dumper</td>
<td>EU-009: Transfer House #1 – Coal Conveying</td>
</tr>
<tr>
<td>EU-009: Transfer House #1 – Coal Conveying</td>
<td>EU-010: Transfer House #2 – Coal Conveying</td>
</tr>
<tr>
<td>EU-010: Transfer House #2 – Coal Conveying</td>
<td>EU-011: Transfer House #3 – Coal Conveying</td>
</tr>
<tr>
<td>EU-011: Transfer House #3 – Coal Conveying</td>
<td>EU-013: Transfer House #4 – Coal Conveying</td>
</tr>
<tr>
<td>EU-013: Transfer House #4 – Coal Conveying</td>
<td>EU-014: East Coal Silo #3 – Coal Conveying</td>
</tr>
<tr>
<td>EU-014: East Coal Silo #3 – Coal Conveying</td>
<td>EU-015: West Coal Silo #3 – Coal Conveying</td>
</tr>
<tr>
<td>EU-015: West Coal Silo #3 – Coal Conveying</td>
<td></td>
</tr>
</tbody>
</table>

B. Applicable Regulation, Emission Limit, and Monitoring Requirements:

<table>
<thead>
<tr>
<th>EU</th>
<th>Regulation No.</th>
<th>Particulate Emission Limit</th>
<th>Opacity Emission Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU-006</td>
<td>03-A-436-P1</td>
<td>0.005 gr/dscf for PM; 6.43 lb/hr for PM10</td>
<td>5%; 20%</td>
</tr>
<tr>
<td>EU-009</td>
<td>78-A-169-S5</td>
<td>1.31 lb/hr; 0.005 gr/dscf for PM10; PM has additional limit of 0.1 gr/dscf</td>
<td>20%</td>
</tr>
<tr>
<td>EU-010</td>
<td>03-A-438-P2</td>
<td>1.05 lb/hr; 0.0037 gr/dscf for PM10; 0.0037 gr/dscf for PM</td>
<td>0%; 20%</td>
</tr>
<tr>
<td>EU-011</td>
<td>78-A-171-S2</td>
<td>2.35 lb/hr for PM10; 0.1 gr/dscf for PM</td>
<td>No VE; 20%</td>
</tr>
<tr>
<td>EU-013</td>
<td>03-A-439-P2</td>
<td>1.14 lb/hr; 0.005 gr/dscf for PM10; 0.005 gr/dscf for PM</td>
<td>5%; 20%</td>
</tr>
<tr>
<td>EU-014</td>
<td>78-A-174-S4</td>
<td>1.14 lb/hr for PM10; 0.1 gr/dscf for PM</td>
<td>20%</td>
</tr>
<tr>
<td>EU-015</td>
<td>78-A-175-S3</td>
<td>0.98 lb/hr for PM10; 0.1 gr/dscf for PM</td>
<td>20%</td>
</tr>
</tbody>
</table>

Current Monitoring Requirements: Daily visible emission monitoring

Alternative Monitoring requirements: In lieu of the visible emissions monitoring required below, the permittee may install and operate a bag leak detection system. If this option is chosen, the permittee shall following the monitoring approach listed under section III of this CAM plan.
C. **Control Technology:** Baghouses

II. **Monitoring Approach**

A. **Indicator**

Visible emissions will be used as an indicator, along with weekly and annual performance inspections.

B. **Measurement Approach**

**Daily:**
- Visible emissions will be checked during the material handling operation of the unit.

**Weekly:**
- Check the cleaning sequence of the baghouses.
- Check hopper functions and performance.

**Annually:**
- Thoroughly inspect bags for leaks and wear.
- Inspect bag cleaning components.
- Inspect hopper unloading components.
- Inspect all components that are not subject to wear or plugging, including structural components, housing, ducts and hoods.

C. **Indicator Range**

An excursion is defined as the presence of visible emissions. Excursions trigger an inspection and corrective action.

D. **Performance Criteria**

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data representativeness:</td>
<td>Measurements are being made at the emission point (bag filter exhaust).</td>
</tr>
<tr>
<td>Verification of operational status:</td>
<td>Records of visible emissions readings, a log of performance, inspections, and any corrective actions will be maintained for five years.</td>
</tr>
<tr>
<td>QA/QC practices and criteria:</td>
<td>The observer will be familiar with Reference Method 22 and follow Method 22-like procedures</td>
</tr>
<tr>
<td>Monitoring frequency and data Collection procedure:</td>
<td>A 6-minute Method 22-like observation is performed daily, along with weekly and annual performance inspections. The visible emissions observation, a log of performance inspections, and any corrective actions are documented by the observer.</td>
</tr>
</tbody>
</table>
III. Alternative Monitoring Approach

i. Indicator to be Monitored: Bag leak detection monitor signal.

ii. Rationale for Monitoring Approach: Bag leak detectors that operate on principles such as triboelectric, electrostatic induction, light scattering, or light transmission, produce a signal that is proportional to the particulate loading in the baghouse outlet gas stream. When bag leaks occur, the cleaning peak height or baseline signal level will increase. Alarm levels based on increases in normal cleaning peak heights or the normal baseline signal can be set to detect filter bag leaks.

iii. Monitoring Locations: At the fabric filter outlet.


v. Data Acquisition and Measurement System Operation
   • Frequency of measurement: Continuous.
   • Reporting units: Amps, volts, or percent of scale.
   • Recording process: Recorded automatically on strip chart or data acquisition system.

vi. Data Requirements
   • Historical signal data showing baseline level and cleaning peak height during normal operation or signal data concurrent with emission testing.

vii. Specific QA/QC Procedures: Calibrate, maintain, and operate instrumentation using procedures that take into account manufacturer’s specifications.
Appendix B: NSPS and NESHAP

   http://www.tceq.state.tx.us/permitting/air/rules/federal/60/a/ahp.html

   http://www.tceq.texas.gov/permitting/air/rules/federal/60/d/dhp.html

C. 40 CFR 60 Subpart Da – Standards of Performance for Electric Utility Steam Generating Units for Which Construction Is Commenced After September 18, 1978

D. 40 CFR 60 Subpart Y – Standards of Performance for Coal Preparation Plants and Processing Plants
   http://www.tceq.texas.gov/permitting/air/rules/federal/60/y/yhp.html

E. 40 CFR 60 Subpart III – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

   http://www.tceq.texas.gov/permitting/air/rules/federal/63/a/ahp.html

G. 40 CFR 63 Subpart B – Requirements for Control Technology Determinations for Major Sources in Accordance With Clean Air Act Sections, Sections 112(g) and 112(j).
   http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=87c9ead88b52be4bd1e43f40ffe98857&rgn=div6&view=text&node=40:9.0.1.1.1.2&idno=40


   http://www.epa.gov/ttn/atw/boiler/fr23de11major.pdf

J. 40 CFR 63 Subpart UUUUU – National Emission Standards for Hazardous Air Pollutants from Coal- and Oil-fired Electric Utility Steam Generating Units
   http://www.epa.gov/mats/pdfs/20111216MATSfinal.pdf
Appendix C: Acid Rain
Phase II Acid Rain Permit

Issued to: Walter Scott, Jr. Energy Center
Operated by: MidAmerican Energy Company
ORIS code: 1082
Effective: April 19, 2018 through April 18, 2023

For the Director of the Department of Natural Resources

Lori Hanson, Supervisor of Operating Permits Section

Acid Rain Permit comprises the following:

1) Statement of Basis.

2) SO₂ allowances allocated under this permit and NOₓ requirements for each affected unit.

3) Comments, notes and justifications regarding permit decisions and changes made to the permit application forms during the review process, and any additional requirements or conditions.

4) The permit application submitted for this source, as corrected by the Iowa Department of Natural Resources (IDNR), Air Quality Bureau, Operating Permit Section. The owners and operators of the source must comply with the standard requirements and special provisions set forth in the application.

1) Statement of Basis

Statutory and Regulatory Authorities: In accordance with Iowa Code paragraph 455B.133["a"], and Titles IV and V of the Clean Air Act, the Iowa Department of Natural Resources (IDNR), Air Quality Bureau, Operating Permit Section issues this permit pursuant to 567 Iowa Administrative Code (IAC) 22.135(455B) to 22.145(455B) and 567 IAC 22.100(455B) to 22.116(455B). The compliance options are approved as proposed in the attached application.
### 2) SO₂ Allowance Allocations and NOₓ Requirements for each affected unit

<table>
<thead>
<tr>
<th>Unit</th>
<th>SO₂ allowances, under Table 2 of 40 CFR part 73.</th>
<th>2018</th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
<th>2022</th>
<th>2023</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit 3</td>
<td></td>
<td>15,985*</td>
<td>15,985*</td>
<td>15,985*</td>
<td>15,985*</td>
<td>15,985*</td>
<td>15,985*</td>
</tr>
</tbody>
</table>

Pursuant to 40 CFR part 76, The Iowa Department of Natural Resources approves a standard emissions limitation compliance plan for Unit 3. The NOₓ compliance plan is effective from April 19, 2018 through April 18, 2023. Under the NOₓ compliance plan, this unit’s annual average NOₓ emission rate for each year, determined in accordance with 40 CFR part 75, shall not exceed the applicable emission limitation under 40 CFR 76.7(a)(2), which is 0.46 lbs/mmBtu for dry bottom wall-fired units.

In addition to the described NOₓ compliance plan, this unit shall comply with all other applicable requirements of 40 CFR part 76, including the duty to reapply for a NOₓ compliance plan and the requirements covering excess emissions.

<table>
<thead>
<tr>
<th>Unit</th>
<th>SO₂ allowances, under Table 2 of 40 CFR part 73.</th>
<th>2018</th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
<th>2022</th>
<th>2023</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit 4</td>
<td></td>
<td>0*</td>
<td>0*</td>
<td>0*</td>
<td>0*</td>
<td>0*</td>
<td>0*</td>
</tr>
</tbody>
</table>

* The number of allowances allocated to Phase II affected units by U.S. EPA in 40 CFR part 73 Table 2 (Revised May 12, 2005). In addition, the number of allowances actually held by an affected source in a unit account may differ from the number allocated by U.S. EPA. Neither of the aforementioned conditions necessitate a revision to the unit SO₂ allowance allocations identified in this permit (See 40 CFR 72.84).

### 3) Comments, Notes and Justifications:

Third renewal of the Phase II SO₂ and NOₓ permit. Units 1 and 2 retired in 2015. Note: Unit 4 is not subject to Phase II NOₓ because it is a new coal fired boiler.

### 4) Permit Application:

Attached.
Acid Rain Permit Application

For more information, see instructions and 40 CFR 72.30 and 72.31.

This submission is: □ new □ revised □ for ARP permit renewal

STEP 1
Identify the facility name, State, and plant (ORIS) code.

<table>
<thead>
<tr>
<th>Facility (Source) Name</th>
<th>State</th>
<th>Plant Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Walter Scott Jr. Energy Center</td>
<td>Iowa</td>
<td>1082</td>
</tr>
</tbody>
</table>

STEP 2
Enter the unit ID# for every affected unit at the affected source in column "a."

<table>
<thead>
<tr>
<th>Unit ID#</th>
<th>Item b: Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Yes</td>
</tr>
<tr>
<td>4</td>
<td>Yes</td>
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<td>Yes</td>
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<td>Yes</td>
</tr>
</tbody>
</table>

EPA Form 7610-16 (Revised 12-2016)
Permit Requirements

(1) The designated representative of each affected source and each affected unit at the source shall:
   (i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and
   (ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;

(2) The owners and operators of each affected source and each affected unit at the source shall:
   (i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and
   (ii) Have an Acid Rain Permit.

Monitoring Requirements

(1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.

(2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the source or unit, as appropriate, with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.

(3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements

(1) The owners and operators of each source and each affected unit at the source shall:
   (i) Hold allowances, as of the allowance transfer deadline, in the source’s compliance account (after deductions under 40 CFR 73.34(c)), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and
   (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.

(2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.

(3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
   (i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or
   (ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).

(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.

(5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.

(6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.

(7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements

The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.
Excess Emissions Requirements

(1) The designated representative of an affected source that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
(2) The owners and operators of an affected source that has excess emissions in any calendar year shall
   (i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
   (ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements

(1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority:
   (i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
   (ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.
   (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
   (iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
(2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability

(1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
(4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.
(5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
(6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit.
(7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.
STEP 3, Cont’d.

Effect on Other Authorities

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:

(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;

(2) Limiting the number of allowances a source can hold; provided, that the number of allowances held by the source shall not affect the source’s obligation to comply with any other provisions of the Act;

(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;

(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,

(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

STEP 4

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name: Spencer Moore

Signature: [Signature]

Date: 9-11-2017
Acid Rain NO\textsubscript{x} Compliance Plan

For more information, see instructions and refer to 40 CFR 76.9

This submission is:  
- [ ] New  
- [ ] Revised  
- [ ] Renewal

**STEP 1**
Indicate plant name, State, and Plant code from the current Certificate of Representation covering the facility.

**Walter Scott Jr. Energy Center**

<table>
<thead>
<tr>
<th>Plant Name</th>
<th>State</th>
<th>Plant Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Iowa</td>
<td>1082</td>
</tr>
</tbody>
</table>

**STEP 2**
Identify each affected Group 1 and Group 2 boiler using the unit IDs from the current Certificate of Representation covering the facility. Also indicate the boiler type: "CB" for cell burner, "CY" for cyclone, "DBW" for dry bottom wall-fired, "T" for tangentially fired, "V" for vertically fired, and "WB" for wet bottom, and select the compliance option for each unit by making an 'X' in the appropriate row and column.

<table>
<thead>
<tr>
<th>ID#</th>
<th>Unit 3</th>
<th>ID#</th>
<th>Unit 4</th>
<th>ID#</th>
<th>Type</th>
<th>ID#</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>DBW</td>
<td></td>
<td>DBW</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(a) Standard annual average emission limitation of 0.50 lb/mbtu (for Phase I dry bottom wall-fired boilers)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(b) Standard annual average emission limitation of 0.45 lb/mbtu (for Phase I tangentially fired boilers)</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(c) Standard annual average emission limitation of 0.40 lb/mbtu (for Phase II dry bottom wall-fired boilers)</td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(d) Standard annual average emission limitation of 0.35 lb/mbtu (for Phase II tangentially fired boilers)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(e) Standard annual average emission limitation of 0.30 lb/mbtu (for cell burner boilers)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(f) Standard annual average emission limitation of 0.28 lb/mbtu (for cyclone boilers)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(g) Standard annual average emission limitation of 0.30 lb/mbtu (for wet bottom boilers)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(h) Standard annual average emission limitation of 0.28 lb/mbtu (for wet bottom boilers)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(i) NO\textsubscript{x} Averaging Plan (include NO\textsubscript{x} Averaging form)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(j) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(A) (check the standard emission limitation box above for most stringent limitation applicable to any unit utilizing stack)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(k) Common stack pursuant to 40 CFR 75.17(a)(2)(ii)(B) with NO\textsubscript{x} Averaging (check the NO\textsubscript{x} Averaging Plan box and include NO\textsubscript{x} Averaging form)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(l) EPA-approved common stack apportionment method pursuant to 40 CFR 75.17(a)(2)(ii)(C), (e)(2)(ii)(B), or (b)(2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
TEP 3
Identify the first calendar year in which this plan will apply.

January 1, 2018

STEP 4
Read the special provisions and certification, enter the name of the designated representative, sign and date.

Special Provisions

General.

This source is subject to the standard requirements in 40 CFR 72.9. These requirements are listed in this source's Acid Rain Permit.

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name  Spencer Moore
Signature
Date  9-11-2017
Appendix D: CSAPR Conditions

Transport Rule (TR) Trading Program Title V Requirements

Description of TR Monitoring Provisions
The TR subject unit(s), and the unit-specific monitoring provisions at this source, are identified in the following table(s). These unit(s) are subject to the requirements for the TR NO\textsubscript{X} Annual Trading Program, TR NO\textsubscript{X} Ozone Season Trading Program and TR SO\textsubscript{2} Group 1 Trading Program.

<table>
<thead>
<tr>
<th>Unit ID: 3  (ORIS Code: 1082)</th>
<th>MidAmerican Energy Company - Walter Scott, Jr. Energy Center</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parameter</td>
<td>Continuous emission monitoring system or systems (CEMS) requirements pursuant to 40 CFR part 75, subpart B (for SO\textsubscript{2} monitoring) and 40 CFR part 75, subpart H (for NO\textsubscript{X} monitoring)</td>
</tr>
<tr>
<td>SO\textsubscript{2}</td>
<td>X</td>
</tr>
<tr>
<td>NO\textsubscript{X}</td>
<td>X</td>
</tr>
<tr>
<td>Heat input</td>
<td>X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Unit ID: 4  (ORIS Code: 1082)</th>
<th>MidAmerican Energy Company - Walter Scott, Jr. Energy Center</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parameter</td>
<td>Continuous emission monitoring system or systems (CEMS) requirements pursuant to 40 CFR part 75, subpart B (for SO\textsubscript{2} monitoring)</td>
</tr>
<tr>
<td>SO\textsubscript{2}</td>
<td>X</td>
</tr>
<tr>
<td>NO\textsubscript{X}</td>
<td>X</td>
</tr>
<tr>
<td>Heat input</td>
<td>X</td>
</tr>
</tbody>
</table>
1. The above description of the monitoring used by a unit does not change, create an exemption from, or otherwise affect the monitoring, recordkeeping, and reporting requirements applicable to the unit under 40 CFR 97.430 through 97.435 (TR NO\textsubscript{X} Annual Trading Program), 97.530 through 97.535 (TR NO\textsubscript{X} Ozone Season Trading Program), and 97.630 through 97.635 (TR SO\textsubscript{2} Group 1 Trading Program). The monitoring, recordkeeping and reporting requirements applicable to each unit are included below in the standard conditions for the applicable TR trading programs.

2. Owners and operators must submit to the Administrator a monitoring plan for each unit in accordance with 40 CFR 75.53, 75.62 and 75.73, as applicable. The monitoring plan for each unit is available at the EPA’s website at http://www.epa.gov/airmarkets/emissions/monitoringplans.html.

3. Owners and operators that want to use an alternative monitoring system must submit to the Administrator a petition requesting approval of the alternative monitoring system in accordance with 40 CFR part 75, subpart E and 40 CFR 75.66 and 97.435 (TR NO\textsubscript{X} Annual Trading Program), 97.535 (TR NO\textsubscript{X} Ozone Season Trading Program) and/or 97.635 (TR SO\textsubscript{2} Group 1 Trading Program). The Administrator’s response approving or disapproving any petition for an alternative monitoring system is available on the EPA’s website at http://www.epa.gov/airmarkets/emissions/petitions.html.

4. Owners and operators that want to use an alternative to any monitoring, recordkeeping, or reporting requirement under 40 CFR 97.430 through 97.434 (TR NO\textsubscript{X} Annual Trading Program), 97.530 through 97.534 (TR NO\textsubscript{X} Ozone Season Trading Program) and/or 97.630 through 97.634 (TR SO\textsubscript{2} Group 1 Trading Program) must submit to the Administrator a petition requesting approval of the alternative in accordance with 40 CFR 75.66 and 97.435 (TR NO\textsubscript{X} Annual Trading Program), 97.535 (TR NO\textsubscript{X} Ozone Season Trading Program) and/or 97.635 (TR SO\textsubscript{2} Group 1 Trading Program). The Administrator’s response approving or disapproving any petition for an alternative to a monitoring, recordkeeping, or reporting requirement is available on EPA’s website at http://www.epa.gov/airmarkets/emissions/petitions.html.

5. The descriptions of monitoring applicable to the unit included above meet the requirement of 40 CFR 97.430 through 97.434 (TR NO\textsubscript{X} Annual Trading Program), 97.530 through 97.534 (TR NO\textsubscript{X} Ozone Season Trading Program) and 97.630 through 97.634 (TR SO\textsubscript{2} Group 1 Trading Program), and therefore minor permit modification procedures, in accordance with 40 CFR
70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B), may be used to add to or change this unit’s monitoring system description.

**TR NOx Annual Trading Program requirements (40 CFR 97.406)**

(a) **Designated representative requirements.**

The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.413 through 97.418.

(b) **Emissions monitoring, reporting, and recordkeeping requirements.**

(1) The owners and operators, and the designated representative, of each TR NOx Annual source and each TR NOx Annual unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.430 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.431 (initial monitoring system certification and recertification procedures), 97.432 (monitoring system out-of-control periods), 97.433 (notifications concerning monitoring), 97.434 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.435 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).

(2) The emissions data determined in accordance with 40 CFR 97.430 through 97.435 shall be used to calculate allocations of TR NOx Annual allowances under 40 CFR 97.411(a)(2) and (b) and 97.412 and to determine compliance with the TR NOx Annual emissions limitation and assurance provisions under paragraph (c) below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.430 through 97.435 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) **NOx emissions requirements.**

(1) TR NOx Annual emissions limitation.

(i). As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR NOx Annual source and each TR NOx Annual unit at the source shall hold, in the source’s compliance account, TR NOx Annual allowances available for deduction for such control period under 40 CFR 97.424(a) in an amount not less than the tons of total NOx emissions for such control period from all TR NOx Annual units at the source.

(ii). If total NOx emissions during a control period in a given year from the TR NOx Annual units at a TR NOx Annual source are in excess of the TR NOx Annual emissions limitation set forth in paragraph (c)(1)(i) above, then:

(A). The owners and operators of the source and each TR NOx Annual unit at the source shall hold the TR NOx Annual allowances required for deduction under 40 CFR 97.424(d); and

(B). The owners and operators of the source and each TR NOx Annual unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall
constitute a separate violation of 40 CFR part 97, subpart AAAAA and the Clean Air Act.

(2) TR NO\textsubscript{X} Annual assurance provisions.

(i). If total NO\textsubscript{X} emissions during a control period in a given year from all TR NO\textsubscript{X} Annual units at TR NO\textsubscript{X} Annual sources in the state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative’s share of such NO\textsubscript{X} emissions during such control period exceeds the common designated representative’s assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) TR NO\textsubscript{X} Annual allowances available for deduction for such control period under 40 CFR 97.425(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.425(b), of multiplying—

(A) The quotient of the amount by which the common designated representative’s share of such NO\textsubscript{X} emissions exceeds the common designated representative’s assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated representative’s share of such NO\textsubscript{X} emissions exceeds the respective common designated representative’s assurance level; and

(B) The amount by which total NO\textsubscript{X} emissions from all TR NO\textsubscript{X} Annual units at TR NO\textsubscript{X} Annual sources in the state for such control period exceed the state assurance level.

(ii). The owners and operators shall hold the TR NO\textsubscript{X} Annual allowances required under paragraph (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.

(iii). Total NO\textsubscript{X} emissions from all TR NO\textsubscript{X} Annual units at TR NO\textsubscript{X} Annual sources in the State during a control period in a given year exceed the state assurance level if such total NO\textsubscript{X} emissions exceed the sum, for such control period, of the state NO\textsubscript{X} Annual trading budget under 40 CFR 97.410(a) and the state’s variability limit under 40 CFR 97.410(b).

(iv). It shall not be a violation of 40 CFR part 97, subpart AAAAA or of the Clean Air Act if total NO\textsubscript{X} emissions from all TR NO\textsubscript{X} Annual units at TR NO\textsubscript{X} Annual sources in the State during a control period exceed the state assurance level or if a common designated representative’s share of total NO\textsubscript{X} emissions from the TR NO\textsubscript{X} Annual units at TR NO\textsubscript{X} Annual sources in the state during a control period exceeds the common designated representative’s assurance level.

(v). To the extent the owners and operators fail to hold TR NO\textsubscript{X} Annual allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,

(A). The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and

(B). Each TR NO\textsubscript{X} Annual allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above
and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart AAAAA and the Clean Air Act.

(3) Compliance periods.
   (i) A TR NO\textsubscript{X} Annual unit shall be subject to the requirements under paragraph (c)(1)
       above for the control period starting on the later of January 1, 2015, or the deadline
       for meeting the unit's monitor certification requirements under 40 CFR 97.430(b)
       and for each control period thereafter.
   (ii) A TR NO\textsubscript{X} Annual unit shall be subject to the requirements under paragraph (c)(2)
       above for the control period starting on the later of January 1, 2017 or the deadline
       for meeting the unit's monitor certification requirements under 40 CFR 97.430(b)
       and for each control period thereafter.

(4) Vintage of allowances held for compliance.
   (i) A TR NO\textsubscript{X} Annual allowance held for compliance with the requirements under
       paragraph (c)(1)(i) above for a control period in a given year must be a TR NO\textsubscript{X} Annual
       allowance that was allocated for such control period or a control period in a
       prior year.
   (ii) A TR NO\textsubscript{X} Annual allowance held for compliance with the requirements under
       paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given
       year must be a TR NO\textsubscript{X} Annual allowance that was allocated for a control period in
       a prior year or the control period in the given year or in the immediately following
       year.

(5) Allowance Management System requirements. Each TR NO\textsubscript{X} Annual allowance shall be
    held in, deducted from, or transferred into, out of, or between Allowance Management
    System accounts in accordance with 40 CFR part 97, subpart AAAAA.

(6) Limited authorization. A TR NO\textsubscript{X} Annual allowance is a limited authorization to emit
    one ton of NO\textsubscript{X} during the control period in one year. Such authorization is limited in its
    use and duration as follows:
    (i) Such authorization shall only be used in accordance with the TR NO\textsubscript{X} Annual
        Trading Program; and
    (ii) Notwithstanding any other provision of 40 CFR part 97, the Administrator has the
        authority to terminate or limit the use and duration of such authorization to the
        extent the Administrator determines is necessary or appropriate to implement any
        provision of the Clean Air Act.

(7) Property right. A TR NO\textsubscript{X} Annual allowance does not constitute a property right.

(d) Title V permit revision requirements.
   (1) No title V permit revision shall be required for any allocation, holding, deduction, or
       transfer of TR NO\textsubscript{X} Annual allowances in accordance with 40 CFR part 97, subpart
       AAAAA.
   (2) This permit incorporates the TR emissions monitoring, recordkeeping and reporting
       requirements pursuant to 40 CFR 97.430 through 97.435, and the requirements for a
       continuous emission monitoring system (pursuant to 40 CFR part 75, subparts B and H),
       an excepted monitoring system (pursuant to 40 CFR part 75, appendices D and E), a low
       mass emissions excepted monitoring methodology (pursuant to 40 CFR 75.19), and an
       alternative monitoring system (pursuant to 40 CFR part 75, subpart E). Therefore, the
       Description of TR Monitoring Provisions table for units identified in this permit may be
added to, or changed, in this title V permit using minor permit modification procedures in accordance with 40 CFR 97.406(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

(e) Additional recordkeeping and reporting requirements.
(1) Unless otherwise provided, the owners and operators of each TR NO\textsubscript{X} Annual source and each TR NO\textsubscript{X} Annual unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.
   (i) The certificate of representation under 40 CFR 97.416 for the designated representative for the source and each TR NO\textsubscript{X} Annual unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.416 changing the designated representative.
   (ii) All emissions monitoring information, in accordance with 40 CFR part 97, subpart AAAAA.
   (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the TR NO\textsubscript{X} Annual Trading Program.
(2) The designated representative of a TR NO\textsubscript{X} Annual source and each TR NO\textsubscript{X} Annual unit at the source shall make all submissions required under the TR NO\textsubscript{X} Annual Trading Program, except as provided in 40 CFR 97.418. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in 40 CFR parts 70 and 71.

(f) Liability.
(1) Any provision of the TR NO\textsubscript{X} Annual Trading Program that applies to a TR NO\textsubscript{X} Annual source or the designated representative of a TR NO\textsubscript{X} Annual source shall also apply to the owners and operators of such source and of the TR NO\textsubscript{X} Annual units at the source.
(2) Any provision of the TR NO\textsubscript{X} Annual Trading Program that applies to a TR NO\textsubscript{X} Annual unit or the designated representative of a TR NO\textsubscript{X} Annual unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities.
No provision of the TR NO\textsubscript{X} Annual Trading Program or exemption under 40 CFR 97.405 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a TR NO\textsubscript{X} Annual source or TR NO\textsubscript{X} Annual unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

**TR NO\textsubscript{X} Ozone Season Trading Program Requirements (40 CFR 97.506)**

(a) Designated representative requirements.
The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.513 through 97.518.

(b) Emissions monitoring, reporting, and recordkeeping requirements.
(1) The owners and operators, and the designated representative, of each TR NO\textsubscript{X} Ozone Season source and each TR NO\textsubscript{X} Ozone Season unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.530 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.531 (initial monitoring system certification and recertification procedures), 97.532 (monitoring system out-of-control periods), 97.533 (notifications concerning monitoring), 97.534 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.535 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).

(2) The emissions data determined in accordance with 40 CFR 97.530 through 97.535 shall be used to calculate allocations of TR NO\textsubscript{X} Ozone Season allowances under 40 CFR 97.511(a)(2) and (b) and 97.512 and to determine compliance with the TR NO\textsubscript{X} Ozone Season emissions limitation and assurance provisions under paragraph (c) below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.530 through 97.535 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) NO\textsubscript{X} emissions requirements.

(1) TR NO\textsubscript{X} Ozone Season emissions limitation.

(i). As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR NO\textsubscript{X} Ozone Season source and each TR NO\textsubscript{X} Ozone Season unit at the source shall hold, in the source's compliance account, TR NO\textsubscript{X} Ozone Season allowances available for deduction for such control period under 40 CFR 97.524(a) in an amount not less than the tons of total NO\textsubscript{X} emissions for such control period from all TR NO\textsubscript{X} Ozone Season units at the source.

(ii). If total NO\textsubscript{X} emissions during a control period in a given year from the TR NO\textsubscript{X} Ozone Season units at a TR NO\textsubscript{X} Ozone Season source are in excess of the TR NO\textsubscript{X} Ozone Season emissions limitation set forth in paragraph (c)(1)(i) above, then:

(A). The owners and operators of the source and each TR NO\textsubscript{X} Ozone Season unit at the source shall hold the TR NO\textsubscript{X} Ozone Season allowances required for deduction under 40 CFR 97.524(d); and

(B). The owners and operators of the source and each TR NO\textsubscript{X} Ozone Season unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart BBBBB and the Clean Air Act.

(2) TR NO\textsubscript{X} Ozone Season assurance provisions.

(i). If total NO\textsubscript{X} emissions during a control period in a given year from all TR NO\textsubscript{X} Ozone Season units at TR NO\textsubscript{X} Ozone Season sources in the state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative’s share of such NO\textsubscript{X} emissions during such control period exceeds the common designated
representative’s assurance level for the state and such control period, shall hold (in
the assurance account established for the owners and operators of such group) TR
NOX Ozone Season allowances available for deduction for such control period
under 40 CFR 97.525(a) in an amount equal to two times the product (rounded to
the nearest whole number), as determined by the Administrator in accordance with
40 CFR 97.525(b), of multiplying—
(A). The quotient of the amount by which the common designated representative’s
share of such NOX emissions exceeds the common designated representative’s
assurance level divided by the sum of the amounts, determined for all
common designated representatives for such sources and units in the state for
such control period, by which each common designated representative’s share
of such NOX emissions exceeds the respective common designated
representative’s assurance level; and
(B). The amount by which total NOX emissions from all TR NOX Ozone Season
units at TR NOX Ozone Season sources in the state for such control period
exceed the state assurance level.

(ii). The owners and operators shall hold the TR NOX Ozone Season allowances
required under paragraph (c)(2)(i) above, as of midnight of November 1 (if it is a
business day), or midnight of the first business day thereafter (if November 1 is not
a business day), immediately after such control period.

(iii). Total NOX emissions from all TR NOX Ozone Season units at TR NOX Ozone
Season sources in the state during a control period in a given year exceed the state
assurance level if such total NOX emissions exceed the sum, for such control period,
of the State NOX Ozone Season trading budget under 40 CFR 97.510(a) and the
state’s variability limit under 40 CFR 97.510(b).

(iv). It shall not be a violation of 40 CFR part 97, subpart BBBBB or of the Clean Air
Act if total NOX emissions from all TR NOX Ozone Season units at TR NOX Ozone
Season sources in the state during a control period exceed the state assurance level
or if a common designated representative’s share of total NOX emissions from the
TR NOX Ozone Season units at TR NOX Ozone Season sources in the state during a
control period exceeds the common designated representative’s assurance level.

(v). To the extent the owners and operators fail to hold TR NOX Ozone Season
allowances for a control period in a given year in accordance with paragraphs
(c)(2)(i) through (iii) above,
(A). The owners and operators shall pay any fine, penalty, or assessment or comply
with any other remedy imposed under the Clean Air Act; and
(B). Each TR NOX Ozone Season allowance that the owners and operators fail to
hold for such control period in accordance with paragraphs (c)(2)(i) through
(iii) above and each day of such control period shall constitute a separate
violation of 40 CFR part 97, subpart BBBBB and the Clean Air Act.

(3) Compliance periods.
(i). A TR NOX Ozone Season unit shall be subject to the requirements under paragraph
(c)(1) above for the control period starting on the later of May 1, 2015 or the
deadline for meeting the unit's monitor certification requirements under 40 CFR
97.530(b) and for each control period thereafter.
(ii). A TR NOX Ozone Season unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of May 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.530(b) and for each control period thereafter.

(4) Vintage of allowances held for compliance.
   (i). A TR NOX Ozone Season allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a TR NOX Ozone Season allowance that was allocated for such control period or a control period in a prior year.
   (ii). A TR NOX Ozone Season allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a TR NOX Ozone Season allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.

(5) Allowance Management System requirements. Each TR NOX Ozone Season allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR part 97, subpart BBBBB.

(6) Limited authorization. A TR NOX Ozone Season allowance is a limited authorization to emit one ton of NOX during the control period in one year. Such authorization is limited in its use and duration as follows:
   (i). Such authorization shall only be used in accordance with the TR NOX Ozone Season Trading Program; and
   (ii). Notwithstanding any other provision of 40 CFR part 97, subpart BBBBB, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.

(7) Property right. A TR NOX Ozone Season allowance does not constitute a property right.

(d) Title V permit revision requirements.
   (1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of TR NOX Ozone Season allowances in accordance with 40 CFR part 97, subpart BBBBB.
   (2) This permit incorporates the TR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.530 through 97.535, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR part 75, subparts B and H), an excepted monitoring system (pursuant to 40 CFR part 75, appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR 75.19), and an alternative monitoring system (pursuant to 40 CFR part 75, subpart E). Therefore, the Description of TR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this title V permit using minor permit modification procedures in accordance with 40 CFR 97.506(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

(e) Additional recordkeeping and reporting requirements.
   (1) Unless otherwise provided, the owners and operators of each TR NOX Ozone Season source and each TR NOX Ozone Season unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.
(i) The certificate of representation under 40 CFR 97.516 for the designated representative for the source and each TR NOx Ozone Season unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.516 changing the designated representative.

(ii) All emissions monitoring information, in accordance with 40 CFR part 97, subpart BBBB.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the TR NOx Ozone Season Trading Program.

(2) The designated representative of a TR NOx Ozone Season source and each TR NOx Ozone Season unit at the source shall make all submissions required under the TR NOx Ozone Season Trading Program, except as provided in 40 CFR 97.518. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in 40 CFR parts 70 and 71.

(f) Liability.

(1) Any provision of the TR NOx Ozone Season Trading Program that applies to a TR NOx Ozone Season source or the designated representative of a TR NOx Ozone Season source shall also apply to the owners and operators of such source and of the TR NOx Ozone Season units at the source.

(2) Any provision of the TR NOx Ozone Season Trading Program that applies to a TR NOx Ozone Season unit or the designated representative of a TR NOx Ozone Season unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities.

No provision of the TR NOx Ozone Season Trading Program or exemption under 40 CFR 97.505 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a TR NOx Ozone Season source or TR NOx Ozone Season unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

**TR SO2 Group 1 Trading Program requirements (40 CFR 97.606)**

(a) Designated representative requirements.

The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.613 through 97.618.

(b) Emissions monitoring, reporting, and recordkeeping requirements.

(1) The owners and operators, and the designated representative, of each TR SO2 Group 1 source and each TR SO2 Group 1 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.630 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.631 (initial monitoring system certification and recertification procedures), 97.632 (monitoring system out-of-control periods), 97.633 (notifications concerning monitoring), 97.634 (recordkeeping and
reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.635 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).

(2) The emissions data determined in accordance with 40 CFR 97.630 through 97.635 shall be used to calculate allocations of TR SO₂ Group 1 allowances under 40 CFR 97.611(a)(2) and (b) and 97.612 and to determine compliance with the TR SO₂ Group 1 emissions limitation and assurance provisions under paragraph (c) below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.630 through 97.635 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) SO₂ emissions requirements.

(1) TR SO₂ Group 1 emissions limitation.

(i). As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR SO₂ Group 1 source and each TR SO₂ Group 1 unit at the source shall hold, in the source's compliance account, TR SO₂ Group 1 allowances available for deduction for such control period under 40 CFR 97.624(a) in an amount not less than the tons of total SO₂ emissions for such control period from all TR SO₂ Group 1 units at the source.

(ii). If total SO₂ emissions during a control period in a given year from the TR SO₂ Group 1 units at a TR SO₂ Group 1 source are in excess of the TR SO₂ Group 1 emissions limitation set forth in paragraph (c)(1)(i) above, then:

(A). The owners and operators of the source and each TR SO₂ Group 1 unit at the source shall hold the TR SO₂ Group 1 allowances required for deduction under 40 CFR 97.624(d); and

(B). The owners and operators of the source and each TR SO₂ Group 1 unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation 40 CFR part 97, subpart CCCCC and the Clean Air Act.

(2) TR SO₂ Group 1 assurance provisions.

(i). If total SO₂ emissions during a control period in a given year from all TR SO₂ Group 1 units at TR SO₂ Group 1 sources in the state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative’s share of such SO₂ emissions during such control period exceeds the common designated representative’s assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) TR SO₂ Group 1 allowances available for deduction for such control period under 40 CFR 97.625(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.625(b), of multiplying—
(A). The quotient of the amount by which the common designated representative’s share of such SO\textsubscript{2} emissions exceeds the common designated representative’s assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated representative’s share of such SO\textsubscript{2} emissions exceeds the respective common designated representative’s assurance level; and

(B). The amount by which total SO\textsubscript{2} emissions from all TR SO\textsubscript{2} Group 1 units at TR SO\textsubscript{2} Group 1 sources in the state for such control period exceed the state assurance level.

(ii). The owners and operators shall hold the TR SO\textsubscript{2} Group 1 allowances required under paragraph (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.

(iii). Total SO\textsubscript{2} emissions from all TR SO\textsubscript{2} Group 1 units at TR SO\textsubscript{2} Group 1 sources in the state during a control period in a given year exceed the state assurance level if such total SO\textsubscript{2} emissions exceed the sum, for such control period, of the state SO\textsubscript{2} Group 1 trading budget under 40 CFR 97.610(a) and the state’s variability limit under 40 CFR 97.610(b).

(iv). It shall not be a violation of 40 CFR part 97, subpart CCCCC or of the Clean Air Act if total SO\textsubscript{2} emissions from all TR SO\textsubscript{2} Group 1 units at TR SO\textsubscript{2} Group 1 sources in the state during a control period exceed the state assurance level or if a common designated representative’s share of total SO\textsubscript{2} emissions from the TR SO\textsubscript{2} Group 1 units at TR SO\textsubscript{2} Group 1 sources in the state during a control period exceeds the common designated representative’s assurance level.

(v). To the extent the owners and operators fail to hold TR SO\textsubscript{2} Group 1 allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,

(A). The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and

(B). Each TR SO\textsubscript{2} Group 1 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart CCCCC and the Clean Air Act.

(3) Compliance periods.

(i). A TR SO\textsubscript{2} Group 1 unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of January 1, 2015 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.630(b) and for each control period thereafter.

(ii). A TR SO\textsubscript{2} Group 1 unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of January 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.630(b) and for each control period thereafter.

(4) Vintage of allowances held for compliance.

(i). A TR SO\textsubscript{2} Group 1 allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a TR SO\textsubscript{2}
Group 1 allowance that was allocated for such control period or a control period in
a prior year.

(ii). A TR SO\textsubscript{2} Group 1 allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given
year must be a TR SO\textsubscript{2} Group 1 allowance that was allocated for a control period in
a prior year or the control period in the given year or in the immediately following
year.

(5) Allowance Management System requirements. Each TR SO\textsubscript{2} Group 1 allowance shall be
held in, deducted from, or transferred into, out of, or between Allowance Management
System accounts in accordance with 40 CFR part 97, subpart CCCCC.

(6) Limited authorization. A TR SO\textsubscript{2} Group 1 allowance is a limited authorization to emit
one ton of SO\textsubscript{2} during the control period in one year. Such authorization is limited in its
use and duration as follows:

(i). Such authorization shall only be used in accordance with the TR SO\textsubscript{2} Group 1
Trading Program; and

(ii). Notwithstanding any other provision of 40 CFR part 97, subpart CCCCC, the
Administrator has the authority to terminate or limit the use and duration of such
authorization to the extent the Administrator determines is necessary or appropriate
to implement any provision of the Clean Air Act.

(7) Property right. A TR SO\textsubscript{2} Group 1 allowance does not constitute a property right.

(d) Title V permit revision requirements.

(1) No title V permit revision shall be required for any allocation, holding, deduction, or
transfer of TR SO\textsubscript{2} Group 1 allowances in accordance with 40 CFR part 97, subpart CCCCC.

(2) This permit incorporates the TR emissions monitoring, recordkeeping and reporting
requirements pursuant to 40 CFR 97.630 through 97.635, and the requirements for a
continuous emission monitoring system (pursuant to 40 CFR part 75, subparts B and H),
an excepted monitoring system (pursuant to 40 CFR part 75, appendices D and E), a low
mass emissions excepted monitoring methodology (pursuant to 40 CFR part 75.19), and
an alternative monitoring system (pursuant to 40 CFR part 75, subpart E). Therefore, the
Description of TR Monitoring Provisions table for units identified in this permit may be
added to, or changed, in this title V permit using minor permit modification procedures in
accordance with 40 CFR 97.606(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

(e) Additional recordkeeping and reporting requirements.

(1) Unless otherwise provided, the owners and operators of each TR SO\textsubscript{2} Group 1 source and
each TR SO\textsubscript{2} Group 1 unit at the source shall keep on site at the source each of the
following documents (in hardcopy or electronic format) for a period of 5 years from the
date the document is created. This period may be extended for cause, at any time before
the end of 5 years, in writing by the Administrator.

(i). The certificate of representation under 40 CFR 97.616 for the designated
representative for the source and each TR SO\textsubscript{2} Group 1 unit at the source and all
documents that demonstrate the truth of the statements in the certificate of
representation; provided that the certificate and documents shall be retained on site
at the source beyond such 5-year period until such certificate of representation and
documents are superseded because of the submission of a new certificate of
representation under 40 CFR 97.616 changing the designated representative.
(ii). All emissions monitoring information, in accordance with 40 CFR part 97, subpart CCCCC.

(iii). Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the TR SO₂ Group 1 Trading Program.

(2) The designated representative of a TR SO₂ Group 1 source and each TR SO₂ Group 1 unit at the source shall make all submissions required under the TR SO₂ Group 1 Trading Program, except as provided in 40 CFR 97.618. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in 40 CFR parts 70 and 71.

(f) Liability.

(1) Any provision of the TR SO₂ Group 1 Trading Program that applies to a TR SO₂ Group 1 source or the designated representative of a TR SO₂ Group 1 source shall also apply to the owners and operators of such source and of the TR SO₂ Group 1 units at the source.

(2) Any provision of the TR SO₂ Group 1 Trading Program that applies to a TR SO₂ Group 1 unit or the designated representative of a TR SO₂ Group 1 unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities.

No provision of the TR SO₂ Group 1 Trading Program or exemption under 40 CFR 97.605 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a TR SO₂ Group 1 source or TR SO₂ Group 1 unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.