Iowa Department of Natural Resources
Title V Operating Permit

Name of Permitted Facility: ADM Corn Processing
Facility Location: 1350 Waconia Avenue SW
Cedar Rapids, IA 52404
Air Quality Operating Permit Number: 08-TV-004R1-M002
Expiration Date: January 5, 2022
Permit Renewal Application Deadline: July 5, 2021

EIQ Number: 92-9062
Facility File Number: 57-01-080

Responsible Official
Name: Brian Mullins
Title: Plant Manager
Mailing Address: 1350 Waconia Ave. SW, Cedar Rapids, Iowa 52404
Phone #: 319-398-0721

Permit Contact Person for the Facility
Name: Rich Stephens
Title: Environmental Coordinator
Mailing Address: 1350 Waconia Ave. SW, Cedar Rapids, Iowa 52404
Phone #: 319-398-0735

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. This facility and Bio Springer North America Corporation (Plant No. 57-01-226), LeSaffre Blending Plant (Plant No. 57-01-226), Red Star Yeast Company, LLC (Plant No. 57-01-226), and Vantage Corn Processing (Plant No. 57-01-246) are considered one stationary source. Four Title V Permits have been issued for the five facilities. This permit is for ADM Corn Processing. Other permits have been issued for Bio Springer (Permit No. 12-TV-005R1), LeSaffre and Red Star (Permit No. 10-TV-006R1), and Vantage Corn Processors (Permit No. 08-TV-007R1-M001).

For the Director of the Department of Natural Resources

Lori Hanson, Supervisor of Air Operating Permits Section Date
Table of Contents

I. Facility Description and Equipment List ........................................................................................................5

II. Plant - Wide Conditions ....................................................................................................................................17

III. Emission Point Specific Conditions ...........................................................................................................21

IV. General Conditions .........................................................................................................................................299
    G1. Duty to Comply
    G2. Permit Expiration
    G3. Certification Requirement for Title V Related Documents
    G4. Annual Compliance Certification
    G5. Semi-Annual Monitoring Report
    G6. Annual Fee
    G7. Inspection of Premises, Records, Equipment, Methods and Discharges
    G8. Duty to Provide Information
    G9. General Maintenance and Repair Duties
    G10. Recordkeeping Requirements for Compliance Monitoring
    G11. Evidence used in establishing that a violation has or is occurring.
    G13. Hazardous Release
    G14. Excess Emissions and Excess Emissions Reporting Requirements
    G15. Permit Deviation Reporting Requirements
    G16. Notification Requirements for Sources That Become Subject to NSPS and NESHAP Regulations
    G17. Requirements for Making Changes to Emission Sources That Do Not Require Title V Permit Modification
    G18. Duty to Modify a Title V Permit
    G19. Duty to Obtain Construction Permits
    G20. Asbestos
    G21. Open Burning
    G22. Acid Rain (Title IV) Emissions Allowances
    G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements
    G24. Permit Reopenings
    G25. Permit Shield
    G26. Severability
    G27. Property Rights
    G28. Transferability
    G29. Disclaimer
    G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification
    G31. Prevention of Air Pollution Emergency Episodes
    G32. Contacts List
V. Appendix A: Agency O&M Plans .................................................................313
   Appendix B: CAM Plans ........................................................................315
   Appendix C: Applicable Federal Requirements .....................................320
### Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>acfm</td>
<td>actual cubic feet per minute</td>
</tr>
<tr>
<td>AQD</td>
<td>Air Quality Division (Linn County)</td>
</tr>
<tr>
<td>APCO</td>
<td>Air Pollution Control Officer</td>
</tr>
<tr>
<td>CDA</td>
<td>completely denatured alcohol</td>
</tr>
<tr>
<td>CFBC</td>
<td>Circulating Fluidized Bed Combustion</td>
</tr>
<tr>
<td>CFR</td>
<td>Code of Federal Regulation</td>
</tr>
<tr>
<td>CE</td>
<td>control equipment</td>
</tr>
<tr>
<td>CEM</td>
<td>continuous emission monitor</td>
</tr>
<tr>
<td>D.C.</td>
<td>dust collector</td>
</tr>
<tr>
<td>°F</td>
<td>degrees Fahrenheit</td>
</tr>
<tr>
<td>EIQ</td>
<td>emissions inventory questionnaire</td>
</tr>
<tr>
<td>EP</td>
<td>emission point</td>
</tr>
<tr>
<td>EU</td>
<td>emission unit</td>
</tr>
<tr>
<td>gr./dscf</td>
<td>grains per dry standard cubic foot</td>
</tr>
<tr>
<td>gr./100 cf</td>
<td>grains per one hundred cubic feet</td>
</tr>
<tr>
<td>IAC</td>
<td>Iowa Administrative Code</td>
</tr>
<tr>
<td>IDNR</td>
<td>Iowa Department of Natural Resources</td>
</tr>
<tr>
<td>LCPH</td>
<td>Linn County Public Health</td>
</tr>
<tr>
<td>LCO</td>
<td>Linn County Ordinance</td>
</tr>
<tr>
<td>MR</td>
<td>mechanical recompression</td>
</tr>
<tr>
<td>MVAC</td>
<td>motor vehicle air conditioner</td>
</tr>
<tr>
<td>NAICS</td>
<td>North American Industry Classification System</td>
</tr>
<tr>
<td>NSPS</td>
<td>New Source Performance Standard</td>
</tr>
<tr>
<td>ppmv</td>
<td>parts per million by volume</td>
</tr>
<tr>
<td>PSD</td>
<td>Prevention of Significant Deterioration</td>
</tr>
<tr>
<td>lb./hr</td>
<td>pounds per hour</td>
</tr>
<tr>
<td>lb./MMBtu</td>
<td>pounds per million British thermal units</td>
</tr>
<tr>
<td>RTO</td>
<td>Regenerative Thermal Oxidizer</td>
</tr>
<tr>
<td>SCC</td>
<td>Source Classification Codes</td>
</tr>
<tr>
<td>scfm</td>
<td>standard cubic feet per minute</td>
</tr>
<tr>
<td>SEP</td>
<td>Supplemental Environmental Project</td>
</tr>
<tr>
<td>SIC</td>
<td>Standard Industrial Classification</td>
</tr>
<tr>
<td>SNCR</td>
<td>selective non-catalytic reduction</td>
</tr>
<tr>
<td>TPY</td>
<td>tons per year</td>
</tr>
<tr>
<td>USEPA</td>
<td>United States Environmental Protection Agency</td>
</tr>
</tbody>
</table>

### Pollutants

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM</td>
<td>particulate matter</td>
</tr>
<tr>
<td>PM$_{10}$</td>
<td>particulate matter ten microns or less in diameter</td>
</tr>
<tr>
<td>SO$_2$</td>
<td>sulfur dioxide</td>
</tr>
<tr>
<td>NO$_x$</td>
<td>nitrogen oxides</td>
</tr>
<tr>
<td>VOC</td>
<td>volatile organic compound</td>
</tr>
<tr>
<td>CO</td>
<td>carbon monoxide</td>
</tr>
<tr>
<td>HAP</td>
<td>hazardous air pollutant</td>
</tr>
</tbody>
</table>
### I. Facility Description and Equipment List

**Facility Name:** ADM Corn Processing  
**Permit Number:** 08-TV-004R1-M002

**Facility Description:** Corn Wet Milling Plant (SIC 2046)

<table>
<thead>
<tr>
<th>Emission Point Number</th>
<th>Emission Unit Number</th>
<th>Emission Unit Description</th>
<th>LCPH Permit Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELEVATOR</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-8</td>
<td>Corn Truck Receiving</td>
<td>6051 / 6148R1</td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-8B</td>
<td>400 Leg</td>
<td>6051 / 6148R1</td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-8C</td>
<td>Transfer Conveyor</td>
<td>6051 / 6148R1</td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-10A</td>
<td>60% Gluten Meal Cooler #1</td>
<td>6051 / 6148R1</td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-10B</td>
<td>60% Gluten Meal Cooler #2</td>
<td>6051 / 6148R1</td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-22</td>
<td>Corn Cleaners System B</td>
<td>6051 / 6148R1</td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-22B</td>
<td>Cleaner Leg</td>
<td>6051 / 6148R1</td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-23</td>
<td>Cracked Corn Receiving</td>
<td>6051 / 6148R1</td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-40</td>
<td>Germ to Storage Conveying</td>
<td>6051 / 6148R1</td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-48</td>
<td>Gluten Meal Milling</td>
<td>6051 / 6148R1</td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-49</td>
<td>Gluten Meal Storage</td>
<td>6051 / 6148R1</td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-65</td>
<td>Cleaner House System A</td>
<td>6051 / 6148R1</td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-66</td>
<td>Cleaner House System B</td>
<td>6051 / 6148R1</td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-86A</td>
<td>Gluten Truck Loading</td>
<td>6051 / 6148R1</td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-86B</td>
<td>Gluten Rail Loading</td>
<td>6051 / 6148R1</td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-180B</td>
<td>Steel Tank Leg</td>
<td>6051 / 6148R1</td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-180C</td>
<td>Silo to Steeps Drag Conveyer</td>
<td>6051 / 6148R1</td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-180D</td>
<td>Silo to Steeps Drag Conveyer</td>
<td>6051 / 6148R1</td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-180E</td>
<td>Steep House Corn Hopper</td>
<td>6051 / 6148R1</td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-181</td>
<td>Rail Dump</td>
<td>6051 / 6148R1</td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-181B</td>
<td>200 Leg</td>
<td>6051 / 6148R1</td>
</tr>
<tr>
<td>SEP-061</td>
<td>EU-61</td>
<td>#1 Steel Corn Storage Tank</td>
<td>6210 / 6051</td>
</tr>
<tr>
<td>SEP-062</td>
<td>EU-62</td>
<td>#2 Steel Corn Storage Tank</td>
<td>6211 / 6052</td>
</tr>
<tr>
<td>SEP-063</td>
<td>EU-63</td>
<td>#3 Steel Corn Storage Tank</td>
<td>6212 / 6053</td>
</tr>
<tr>
<td>SEP-064</td>
<td>EU-64</td>
<td>#4 Steel Corn Storage Tank</td>
<td>6213 / 6054</td>
</tr>
<tr>
<td>SEP-180</td>
<td>EU-180</td>
<td>Bulk Weigh Scale</td>
<td>6040 / 6109</td>
</tr>
<tr>
<td>SEP-180</td>
<td>EU-180B</td>
<td>Steel Tank Leg</td>
<td>6041 / 6110</td>
</tr>
<tr>
<td>SEP-180</td>
<td>EU-180C</td>
<td>Silo to Steeps Drag Conveyer</td>
<td>6051 / 6148R1</td>
</tr>
<tr>
<td>SEP-180</td>
<td>EU-180D</td>
<td>Silo to Steeps Drag Conveyer</td>
<td>6051 / 6148R1</td>
</tr>
<tr>
<td>SEP-180</td>
<td>EU-180E</td>
<td>Steep House Corn Hopper</td>
<td>6051 / 6148R1</td>
</tr>
<tr>
<td>Emission Point Number</td>
<td>Emission Unit Number</td>
<td>Emission Unit Description</td>
<td>LCPH Permit Numbers</td>
</tr>
<tr>
<td>-----------------------</td>
<td>----------------------</td>
<td>--------------------------------------------</td>
<td>--------------------</td>
</tr>
<tr>
<td>SEP-180</td>
<td>EU-181</td>
<td>Rail Dump</td>
<td></td>
</tr>
<tr>
<td>SEP-180</td>
<td>EU-181B</td>
<td>200 Leg</td>
<td></td>
</tr>
<tr>
<td>SEP-180</td>
<td>EU-8</td>
<td>Corn Truck Receiving</td>
<td></td>
</tr>
<tr>
<td>SEP-180</td>
<td>EU-8B</td>
<td>400 Leg</td>
<td></td>
</tr>
<tr>
<td>SEP-181</td>
<td>EU-8C</td>
<td>Transfer Conveyor</td>
<td></td>
</tr>
<tr>
<td>SEP-180</td>
<td>EU-10A</td>
<td>60% Gluten Meal Cooler #1</td>
<td></td>
</tr>
<tr>
<td>SEP-181</td>
<td>EU-10B</td>
<td>60% Gluten Meal Cooler #2</td>
<td></td>
</tr>
<tr>
<td>SEP-180</td>
<td>EU-22</td>
<td>Corn Cleaners System B</td>
<td></td>
</tr>
<tr>
<td>SEP-181</td>
<td>EU-22B</td>
<td>Cleaner Leg</td>
<td></td>
</tr>
<tr>
<td>SEP-180</td>
<td>EU-23</td>
<td>Cracked Corn Receiving</td>
<td></td>
</tr>
<tr>
<td>SEP-181</td>
<td>EU-40</td>
<td>Germ to Storage Conveying</td>
<td></td>
</tr>
<tr>
<td>SEP-181</td>
<td>EU-48</td>
<td>Gluten Meal Milling</td>
<td></td>
</tr>
<tr>
<td>SEP-180</td>
<td>EU-49</td>
<td>Gluten Meal Storage</td>
<td></td>
</tr>
<tr>
<td>SEP-181</td>
<td>EU-65</td>
<td>Cleaner House System A</td>
<td></td>
</tr>
<tr>
<td>SEP-181</td>
<td>EU-66</td>
<td>Cleaner House System B</td>
<td></td>
</tr>
<tr>
<td>SEP-181</td>
<td>EU-86A</td>
<td>Gluten Truck Loading</td>
<td></td>
</tr>
<tr>
<td>SEP-181</td>
<td>EU-86B</td>
<td>Gluten Rail Loading</td>
<td></td>
</tr>
<tr>
<td>MILL</td>
<td>SEP-083</td>
<td>EU-083A Wet Corn Hopper</td>
<td>4828 / 5712</td>
</tr>
<tr>
<td>MILL</td>
<td>SEP-083</td>
<td>EU-083B First Grind Tank</td>
<td>4828 / 5712</td>
</tr>
<tr>
<td>MILL</td>
<td>SEP-083</td>
<td>EU-083C MR Steepwater Evaporators</td>
<td>4828 / 5712</td>
</tr>
<tr>
<td>MILL</td>
<td>SEP-083</td>
<td>EU-375 Steep Tank 1E</td>
<td>4828 / 5712</td>
</tr>
<tr>
<td>MILL</td>
<td>SEP-083</td>
<td>EU-376 Steep Tank 2E</td>
<td>4828 / 5712</td>
</tr>
<tr>
<td>MILL</td>
<td>SEP-083</td>
<td>EU-377 Steep Tank 3E</td>
<td>4828 / 5712</td>
</tr>
<tr>
<td>MILL</td>
<td>SEP-083</td>
<td>EU-378 Steep Tank 10E</td>
<td>4828 / 5712</td>
</tr>
<tr>
<td>MILL</td>
<td>SEP-083</td>
<td>EU-379 Steep Tank 11E</td>
<td>4828 / 5712</td>
</tr>
<tr>
<td>MILL</td>
<td>SEP-083</td>
<td>EU-380 Steep Tank 12E</td>
<td>4828 / 5712</td>
</tr>
<tr>
<td>MILL</td>
<td>SEP-083</td>
<td>EU-381 Steep Tank 1F</td>
<td>4828 / 5712</td>
</tr>
<tr>
<td>MILL</td>
<td>SEP-083</td>
<td>EU-382 Steep Tank 2F</td>
<td>4828 / 5712</td>
</tr>
<tr>
<td>MILL</td>
<td>SEP-083</td>
<td>EU-383 Steep Tank 3F</td>
<td>4828 / 5712</td>
</tr>
<tr>
<td>MILL</td>
<td>SEP-083</td>
<td>EU-384 Steep Tank 10F</td>
<td>4828 / 5712</td>
</tr>
<tr>
<td>MILL</td>
<td>SEP-083</td>
<td>EU-385 Steep Tank 11F</td>
<td>4828 / 5712</td>
</tr>
<tr>
<td>MILL</td>
<td>SEP-083</td>
<td>EU-386 Steep Tank 12F</td>
<td>4828 / 5712</td>
</tr>
<tr>
<td>MILL</td>
<td>SEP-201</td>
<td>EU-201A Heavy Gluten Storage Tank</td>
<td>4829 / 6111</td>
</tr>
<tr>
<td>MILL</td>
<td>SEP-201</td>
<td>EU-201B Mill Water Storage Tank</td>
<td>4829 / 6111</td>
</tr>
<tr>
<td>MILL</td>
<td>SEP-201</td>
<td>EU-201C Light Steepwater Storage</td>
<td>4829 / 6111</td>
</tr>
<tr>
<td>MILL</td>
<td>SEP-204</td>
<td>EU-204 Biomass Storage Tank</td>
<td>4830 / 6150</td>
</tr>
<tr>
<td>MILL</td>
<td>SEP-205</td>
<td>EU-205 Heavy Steepwater Tank</td>
<td>4831 / 6151</td>
</tr>
<tr>
<td>MILL</td>
<td>SEP-206</td>
<td>EU-206 Intermediate Steepwater Storage Tank</td>
<td>4832 / 6152</td>
</tr>
<tr>
<td>MILL</td>
<td>SEP-210</td>
<td>EU-046 Sulfur Burning System</td>
<td>5829 / 6337</td>
</tr>
<tr>
<td>MILL</td>
<td>SEP-210</td>
<td>EU-210 Millhouse SO₂ Scrubber</td>
<td>5829 / 6337</td>
</tr>
<tr>
<td>MILL</td>
<td>SEP-307</td>
<td>EU-307 Steep Tank 1A</td>
<td>5575 / 5812</td>
</tr>
<tr>
<td>Emission Point Number</td>
<td>Emission Unit Number</td>
<td>Emission Unit Description</td>
<td>LCPH Permit Numbers</td>
</tr>
<tr>
<td>-----------------------</td>
<td>----------------------</td>
<td>---------------------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>SEP-308</td>
<td>EU-308</td>
<td>Steep Tank 2A</td>
<td>5576 / 5813</td>
</tr>
<tr>
<td>SEP-309</td>
<td>EU-309</td>
<td>Steep Tank 3A</td>
<td>5577 / 5814</td>
</tr>
<tr>
<td>SEP-310</td>
<td>EU-310</td>
<td>Steep Tank 4A</td>
<td>5578 / 5815</td>
</tr>
<tr>
<td>SEP-311</td>
<td>EU-311</td>
<td>Steep Tank 5A</td>
<td>5579 / 5816</td>
</tr>
<tr>
<td>SEP-312</td>
<td>EU-312</td>
<td>Steep Tank 6A</td>
<td>5580 / 5817</td>
</tr>
<tr>
<td>SEP-313</td>
<td>EU-313</td>
<td>Steep Tank 7A</td>
<td>5581 / 5818</td>
</tr>
<tr>
<td>SEP-314</td>
<td>EU-314</td>
<td>Steep Tank 8A</td>
<td>5582 / 5819</td>
</tr>
<tr>
<td>SEP-315</td>
<td>EU-315</td>
<td>Steep Tank 9A</td>
<td>5583 / 5820</td>
</tr>
<tr>
<td>SEP-316</td>
<td>EU-316</td>
<td>Steep Tank 10A</td>
<td>5584 / 5821</td>
</tr>
<tr>
<td>SEP-317</td>
<td>EU-317</td>
<td>Steep Tank 11A</td>
<td>5585 / 5822</td>
</tr>
<tr>
<td>SEP-318</td>
<td>EU-318</td>
<td>Steep Tank 12A</td>
<td>5586 / 5823</td>
</tr>
<tr>
<td>SEP-319</td>
<td>EU-319</td>
<td>Steep Tank 13A</td>
<td>5587 / 5824</td>
</tr>
<tr>
<td>SEP-320</td>
<td>EU-320</td>
<td>Steep Tank 14A</td>
<td>5588 / 5825</td>
</tr>
<tr>
<td>SEP-321</td>
<td>EU-321</td>
<td>Steep Tank 15A</td>
<td>5589 / 5826</td>
</tr>
<tr>
<td>SEP-322</td>
<td>EU-322</td>
<td>Steep Tank 16A</td>
<td>5590 / 5827</td>
</tr>
<tr>
<td>SEP-323</td>
<td>EU-323</td>
<td>Steep Tank 17A</td>
<td>5591 / 5828</td>
</tr>
<tr>
<td>SEP-324</td>
<td>EU-324</td>
<td>Steep Tank 18A</td>
<td>5592 / 5829</td>
</tr>
<tr>
<td>SEP-325</td>
<td>EU-325</td>
<td>Steep Tank 1B</td>
<td>5593 / 5830</td>
</tr>
<tr>
<td>SEP-326</td>
<td>EU-327</td>
<td>Steep Tank 2B</td>
<td>5594 / 5831</td>
</tr>
<tr>
<td>SEP-327</td>
<td>EU-327</td>
<td>Steep Tank 3B</td>
<td>5595 / 5832</td>
</tr>
<tr>
<td>SEP-328</td>
<td>EU-328</td>
<td>Steep Tank 4B</td>
<td>5596 / 5833</td>
</tr>
<tr>
<td>SEP-329</td>
<td>EU-329</td>
<td>Steep Tank 5B</td>
<td>5597 / 5834</td>
</tr>
<tr>
<td>SEP-330</td>
<td>EU-330</td>
<td>Steep Tank 6B</td>
<td>5598 / 5835</td>
</tr>
<tr>
<td>SEP-331</td>
<td>EU-331</td>
<td>Steep Tank 7B</td>
<td>5599 / 5836</td>
</tr>
<tr>
<td>SEP-332</td>
<td>EU-332</td>
<td>Steep Tank 8B</td>
<td>5600 / 5837</td>
</tr>
<tr>
<td>SEP-333</td>
<td>EU-333</td>
<td>Steep Tank 9B</td>
<td>5601 / 5838</td>
</tr>
<tr>
<td>SEP-334</td>
<td>EU-334</td>
<td>Steep Tank 10B</td>
<td>5602 / 5839</td>
</tr>
<tr>
<td>SEP-335</td>
<td>EU-335</td>
<td>Steep Tank 11B</td>
<td>5603 / 5840</td>
</tr>
<tr>
<td>SEP-336</td>
<td>EU-336</td>
<td>Steep Tank 12B</td>
<td>5604 / 5841</td>
</tr>
<tr>
<td>SEP-337</td>
<td>EU-337</td>
<td>Steep Tank 13B</td>
<td>5605 / 5842</td>
</tr>
<tr>
<td>SEP-338</td>
<td>EU-338</td>
<td>Steep Tank 14B</td>
<td>5606 / 5843</td>
</tr>
<tr>
<td>SEP-339</td>
<td>EU-339</td>
<td>Steep Tank 15B</td>
<td>5607 / 5844</td>
</tr>
<tr>
<td>SEP-340</td>
<td>EU-340</td>
<td>Steep Tank 16B</td>
<td>5608 / 5845</td>
</tr>
<tr>
<td>SEP-341</td>
<td>EU-341</td>
<td>Steep Tank 17B</td>
<td>5609 / 5846</td>
</tr>
<tr>
<td>SEP-342</td>
<td>EU-342</td>
<td>Steep Tank 18B</td>
<td>5610 / 5847</td>
</tr>
<tr>
<td>SEP-343</td>
<td>EU-343</td>
<td>Steep Tank 1C</td>
<td>5611 / 5848</td>
</tr>
<tr>
<td>SEP-344</td>
<td>EU-344</td>
<td>Steep Tank 2C</td>
<td>5612 / 5849</td>
</tr>
<tr>
<td>SEP-345</td>
<td>EU-345</td>
<td>Steep Tank 3C</td>
<td>5613 / 5850</td>
</tr>
<tr>
<td>SEP-346</td>
<td>EU-346</td>
<td>Steep Tank 4C</td>
<td>5614 / 5851</td>
</tr>
<tr>
<td>SEP-347</td>
<td>EU-347</td>
<td>Steep Tank 5C</td>
<td>5615 / 5852</td>
</tr>
<tr>
<td>SEP-348</td>
<td>EU-348</td>
<td>Steep Tank 6C</td>
<td>5616 / 5853</td>
</tr>
<tr>
<td>SEP-349</td>
<td>EU-349</td>
<td>Steep Tank 7C</td>
<td>5617 / 5854</td>
</tr>
<tr>
<td>SEP-350</td>
<td>EU-350</td>
<td>Steep Tank 8C</td>
<td>5618 / 5855</td>
</tr>
<tr>
<td>Emission Point Number</td>
<td>Emission Unit Number</td>
<td>Emission Unit Description</td>
<td>LCPH Permit Numbers</td>
</tr>
<tr>
<td>-----------------------</td>
<td>----------------------</td>
<td>-----------------------------</td>
<td>--------------------</td>
</tr>
<tr>
<td>SEP-351</td>
<td>EU-351</td>
<td>Steep Tank 9C</td>
<td>5619 / 5856</td>
</tr>
<tr>
<td>SEP-352</td>
<td>EU-352</td>
<td>Steep Tank 10C</td>
<td>5620 / 5857</td>
</tr>
<tr>
<td>SEP-353</td>
<td>EU-353</td>
<td>Steep Tank 11C</td>
<td>5621 / 5858</td>
</tr>
<tr>
<td>SEP-354</td>
<td>EU-354</td>
<td>Steep Tank 12C</td>
<td>5622 / 5859</td>
</tr>
<tr>
<td>SEP-355</td>
<td>EU-355</td>
<td>Steep Tank 13C</td>
<td>5623 / 5860</td>
</tr>
<tr>
<td>SEP-356</td>
<td>EU-356</td>
<td>Steep Tank 14C</td>
<td>5624 / 5861</td>
</tr>
<tr>
<td>SEP-357</td>
<td>EU-357</td>
<td>Steep Tank 15C</td>
<td>5625 / 5862</td>
</tr>
<tr>
<td>SEP-358</td>
<td>EU-358</td>
<td>Steep Tank 16C</td>
<td>5626 / 5863</td>
</tr>
<tr>
<td>SEP-359</td>
<td>EU-359</td>
<td>Steep Tank 17C</td>
<td>5627 / 5864</td>
</tr>
<tr>
<td>SEP-360</td>
<td>EU-360</td>
<td>Steep Tank 18C</td>
<td>5628 / 5865</td>
</tr>
<tr>
<td>SEP-361</td>
<td>EU-361</td>
<td>Steep Tank 1D</td>
<td>5629 / 5866</td>
</tr>
<tr>
<td>SEP-362</td>
<td>EU-362</td>
<td>Steep Tank 2D</td>
<td>5630 / 5867</td>
</tr>
<tr>
<td>SEP-363</td>
<td>EU-363</td>
<td>Steep Tank 3D</td>
<td>5631 / 5868</td>
</tr>
<tr>
<td>SEP-364</td>
<td>EU-364</td>
<td>Steep Tank 4D</td>
<td>5632 / 5869</td>
</tr>
<tr>
<td>SEP-365</td>
<td>EU-365</td>
<td>Steep Tank 5D</td>
<td>5633 / 5870</td>
</tr>
<tr>
<td>SEP-366</td>
<td>EU-366</td>
<td>Steep Tank 6D</td>
<td>5634 / 5871</td>
</tr>
<tr>
<td>SEP-367</td>
<td>EU-367</td>
<td>Steep Tank 7D</td>
<td>5635 / 5872</td>
</tr>
<tr>
<td>SEP-368</td>
<td>EU-368</td>
<td>Steep Tank 8D</td>
<td>5636 / 5873</td>
</tr>
<tr>
<td>SEP-369</td>
<td>EU-369</td>
<td>Steep Tank 9D</td>
<td>5637 / 5874</td>
</tr>
<tr>
<td>SEP-370</td>
<td>EU-370</td>
<td>Steep Tank 10D</td>
<td>5638 / 5875</td>
</tr>
<tr>
<td>SEP-371</td>
<td>EU-371</td>
<td>Steep Tank 11D</td>
<td>5639 / 5876</td>
</tr>
<tr>
<td>SEP-372</td>
<td>EU-372</td>
<td>Steep Tank 12D</td>
<td>5640 / 5877</td>
</tr>
<tr>
<td>SEP-373</td>
<td>EU-373</td>
<td>Steep Tank 13D</td>
<td>5641 / 5878</td>
</tr>
<tr>
<td>SEP-374</td>
<td>EU-374</td>
<td>Steep Tank 14D</td>
<td>5642 / 5879</td>
</tr>
</tbody>
</table>

**60% GLUTEN MEAL**

<table>
<thead>
<tr>
<th>Emission Unit Number</th>
<th>Emission Unit Description</th>
<th>LCPH Permit Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU-011A</td>
<td>Gluten Meal Dryer #1</td>
<td></td>
</tr>
<tr>
<td>EU-011B</td>
<td>Gluten Meal Dryer #1 – Natural Gas</td>
<td></td>
</tr>
<tr>
<td>EU-018A</td>
<td>Gluten Meal Dryer #2</td>
<td></td>
</tr>
<tr>
<td>EU-018B</td>
<td>Gluten Meal Dryer #2 – Natural Gas</td>
<td></td>
</tr>
<tr>
<td>EU-019A</td>
<td>Fiber Feed Dryer #1</td>
<td></td>
</tr>
<tr>
<td>EU-019B</td>
<td>Fiber Feed Dryer #1 – Natural Gas</td>
<td></td>
</tr>
<tr>
<td>EU-030A</td>
<td>Fiber Feed Dryer #2</td>
<td></td>
</tr>
<tr>
<td>EU-030B</td>
<td>Fiber Feed Dryer #2 – Natural Gas</td>
<td></td>
</tr>
<tr>
<td>EU-043A</td>
<td>Fiber Feed Dryer #3</td>
<td></td>
</tr>
<tr>
<td>EU-043B</td>
<td>Fiber Feed Dryer #3 – Natural Gas</td>
<td></td>
</tr>
<tr>
<td>EU-005CA</td>
<td>Fiber Feed Dryer #4</td>
<td></td>
</tr>
<tr>
<td>EU-005CB</td>
<td>Fiber Feed Dryer #4 – Natural Gas</td>
<td></td>
</tr>
<tr>
<td>EU-005DA</td>
<td>Fiber Feed Dryer #5</td>
<td></td>
</tr>
<tr>
<td>EU-005DB</td>
<td>Fiber Feed Dryer #5 – Natural Gas</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Point Number</th>
<th>Emission Unit Number</th>
<th>Emission Unit Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-190</td>
<td>EU-011A</td>
<td>Gluten Meal Dryer #1</td>
</tr>
<tr>
<td>SEP-191</td>
<td>EU-011B</td>
<td>Gluten Meal Dryer #1 – Natural Gas</td>
</tr>
<tr>
<td>SEP-192</td>
<td>EU-018A</td>
<td>Gluten Meal Dryer #2</td>
</tr>
<tr>
<td></td>
<td>EU-018B</td>
<td>Gluten Meal Dryer #2 – Natural Gas</td>
</tr>
<tr>
<td></td>
<td>EU-019A</td>
<td>Fiber Feed Dryer #1</td>
</tr>
<tr>
<td></td>
<td>EU-019B</td>
<td>Fiber Feed Dryer #1 – Natural Gas</td>
</tr>
<tr>
<td></td>
<td>EU-030A</td>
<td>Fiber Feed Dryer #2</td>
</tr>
<tr>
<td></td>
<td>EU-030B</td>
<td>Fiber Feed Dryer #2 – Natural Gas</td>
</tr>
<tr>
<td></td>
<td>EU-043A</td>
<td>Fiber Feed Dryer #3</td>
</tr>
<tr>
<td></td>
<td>EU-043B</td>
<td>Fiber Feed Dryer #3 – Natural Gas</td>
</tr>
<tr>
<td></td>
<td>EU-005CA</td>
<td>Fiber Feed Dryer #4</td>
</tr>
<tr>
<td></td>
<td>EU-005CB</td>
<td>Fiber Feed Dryer #4 – Natural Gas</td>
</tr>
<tr>
<td></td>
<td>EU-005DA</td>
<td>Fiber Feed Dryer #5</td>
</tr>
<tr>
<td></td>
<td>EU-005DB</td>
<td>Fiber Feed Dryer #5 – Natural Gas</td>
</tr>
<tr>
<td>Emission Point Number</td>
<td>Emission Unit Number</td>
<td>Emission Unit Description</td>
</tr>
<tr>
<td>-----------------------</td>
<td>----------------------</td>
<td>---------------------------</td>
</tr>
<tr>
<td>SEP-190</td>
<td>EU-190</td>
<td>RTO #1</td>
</tr>
<tr>
<td>SEP-191</td>
<td>EU-191A</td>
<td>RTO #2</td>
</tr>
<tr>
<td>SEP-191</td>
<td>EU-191B</td>
<td>RTO #3</td>
</tr>
<tr>
<td>SEP-192</td>
<td>EU-192A</td>
<td>RTO #4</td>
</tr>
<tr>
<td>SEP-192</td>
<td>EU-192B</td>
<td>RTO #5</td>
</tr>
<tr>
<td>SEP-011</td>
<td>EU-11A</td>
<td>#1 Gluten Meal Dryer Bypass</td>
</tr>
<tr>
<td>SEP-011</td>
<td>EU-11B</td>
<td>#1 Gluten Meal Dryer Bypass – Natural Gas</td>
</tr>
<tr>
<td>SEP-013</td>
<td>EU-13</td>
<td>60% Gluten Meal Recycle #3</td>
</tr>
<tr>
<td>SEP-018</td>
<td>EU-18A</td>
<td>#2 Gluten Meal Dryer Bypass</td>
</tr>
<tr>
<td>SEP-018</td>
<td>EU-18B</td>
<td>#2 Gluten Meal Dryer Bypass – Natural Gas</td>
</tr>
<tr>
<td>SEP-050</td>
<td>EU-50</td>
<td>60% Gluten Meal Recycle #2</td>
</tr>
<tr>
<td>SEP-051</td>
<td>EU-51</td>
<td>60% Gluten Meal Recycle #1</td>
</tr>
<tr>
<td>SEP-226</td>
<td>EU-226</td>
<td>Gluten Filters 1-15, 19-22 and Vacuum Pumps 1-4</td>
</tr>
<tr>
<td>SEP-230</td>
<td>EU-230</td>
<td>#16, #17, and #18 Gluten Filter Pumps</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>21% FIBER FEED</strong></td>
</tr>
<tr>
<td>SEP-019</td>
<td>EU-19A</td>
<td>#1 Fiber Feed Dryer Bypass</td>
</tr>
<tr>
<td>SEP-019</td>
<td>EU-19B</td>
<td>#1 Fiber Feed Dryer Bypass – Natural Gas</td>
</tr>
<tr>
<td>SEP-026</td>
<td>EU-005CA</td>
<td>#4 Fiber Feed Dryer Bypass</td>
</tr>
<tr>
<td>SEP-026</td>
<td>EU-005CB</td>
<td>#4 Fiber Feed Dryer Bypass – Natural Gas</td>
</tr>
<tr>
<td>SEP-027</td>
<td>EU-005DA</td>
<td>#5 Fiber Feed Dryer Bypass</td>
</tr>
<tr>
<td>SEP-027</td>
<td>EU-005DB</td>
<td>#5 Fiber Feed Dryer Bypass – Natural Gas</td>
</tr>
<tr>
<td>SEP-030</td>
<td>EU-30A</td>
<td>#2 Fiber Feed Dryer Bypass</td>
</tr>
<tr>
<td>SEP-030</td>
<td>EU-30B</td>
<td>#2 Fiber Feed Dryer Bypass – Natural Gas</td>
</tr>
<tr>
<td>SEP-032</td>
<td>EU-32</td>
<td>21% Gluten Feed Stedman Mill D.C.</td>
</tr>
<tr>
<td>SEP-043</td>
<td>EU-43A</td>
<td>#3 Fiber Feed Dryer Bypass</td>
</tr>
<tr>
<td>SEP-043</td>
<td>EU-43B</td>
<td>#3 Fiber Feed Dryer Bypass – Natural Gas</td>
</tr>
<tr>
<td>SEP-211</td>
<td>EU-211</td>
<td>Feedhouse Miscellaneous Fugitive Emission Source</td>
</tr>
<tr>
<td>SEP-271</td>
<td>EU-32A</td>
<td>Stedman Mill</td>
</tr>
<tr>
<td>SEP-271</td>
<td>EU-32B</td>
<td>Stedman Mill</td>
</tr>
<tr>
<td>SEP-271</td>
<td>EU-32C</td>
<td>Stedman Mill</td>
</tr>
<tr>
<td>SEP-271</td>
<td>EU-32D</td>
<td>Stedman Mill</td>
</tr>
<tr>
<td>SEP-271</td>
<td>EU-32E</td>
<td>Stedman Mill</td>
</tr>
<tr>
<td>SEP-271</td>
<td>EU-32F</td>
<td>Stedman Mill</td>
</tr>
<tr>
<td>SEP-271</td>
<td>EU-32G</td>
<td>Stedman Mill</td>
</tr>
<tr>
<td>SEP-271</td>
<td>EU-32H</td>
<td>Stedman Mill</td>
</tr>
<tr>
<td>SEP-271</td>
<td>EU-271</td>
<td>#1 Vertical Fiber Cooler</td>
</tr>
<tr>
<td>Emission Point Number</td>
<td>Emission Unit Number</td>
<td>Emission Unit Description</td>
</tr>
<tr>
<td>-----------------------</td>
<td>----------------------</td>
<td>------------------------------------------------</td>
</tr>
<tr>
<td>GERM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEP-006</td>
<td>EU-6</td>
<td>#2 Fluid Bed Germ Dryer</td>
</tr>
<tr>
<td>SEP-015</td>
<td>EU-15</td>
<td>#1 Fluid Bed Germ Dryer</td>
</tr>
<tr>
<td>SEP-016</td>
<td>EU-12</td>
<td>Fiber Feed – Wet Feed Tank</td>
</tr>
<tr>
<td>SEP-016</td>
<td>EU-16A</td>
<td>#1 Steam Tube Germ Dryer</td>
</tr>
<tr>
<td>SEP-016</td>
<td>EU-16B</td>
<td>#2 Steam Tube Germ Dryer</td>
</tr>
<tr>
<td>SEP-016</td>
<td>EU-16C</td>
<td>#3 Steam Tube Germ Dryer</td>
</tr>
<tr>
<td>SEP-016</td>
<td>EU-16D</td>
<td>#4 Steam Tube Germ Dryer</td>
</tr>
<tr>
<td>SEP-021</td>
<td>EU-21</td>
<td>Germ Cooler</td>
</tr>
<tr>
<td>PELLET MILL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEP- 388</td>
<td>EU-1</td>
<td>#4 Pellet Cooler</td>
</tr>
<tr>
<td>SEP- 388</td>
<td>EU-29</td>
<td>#1 Pellet Cooler</td>
</tr>
<tr>
<td>SEP- 388</td>
<td>EU-36</td>
<td>Pellet Mill Dust Collection</td>
</tr>
<tr>
<td>SEP- 388</td>
<td>EU-38</td>
<td>#2 Pellet Cooler</td>
</tr>
<tr>
<td>SEP- 388</td>
<td>EU-39</td>
<td>#3 Pellet Cooler</td>
</tr>
<tr>
<td>ALCOHOL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEP-055</td>
<td>EU-55</td>
<td>Fermenter Vent / CO₂ Scrubber</td>
</tr>
<tr>
<td>SEP-057</td>
<td>EU-57</td>
<td>Yeast Propagator Tank #1</td>
</tr>
<tr>
<td>SEP-058</td>
<td>EU-58</td>
<td>Yeast Propagator Tank #2</td>
</tr>
<tr>
<td>SEP-059</td>
<td>EU-59</td>
<td>Yeast Propagator Tank #3</td>
</tr>
<tr>
<td>SEP-060</td>
<td>EU-60</td>
<td>Yeast Propagator Tank #4</td>
</tr>
<tr>
<td>SEP-069</td>
<td>EU-69</td>
<td>190 Product Scrubbing System</td>
</tr>
<tr>
<td>SEP-070</td>
<td>EU-70</td>
<td>200 Product Scrubbing System</td>
</tr>
<tr>
<td>SEP-071</td>
<td>EU-71</td>
<td># 1 Alcohol Storage Tank</td>
</tr>
<tr>
<td>SEP-072</td>
<td>EU-72</td>
<td># 2 Alcohol Storage Tank</td>
</tr>
<tr>
<td>SEP-073</td>
<td>EU-73</td>
<td># 3 Alcohol Storage Tank</td>
</tr>
<tr>
<td>SEP-074</td>
<td>EU-74</td>
<td>Denaturant Storage Tank (Gasoline)</td>
</tr>
<tr>
<td>SEP-075</td>
<td>EU-75</td>
<td>#2 Hi-Wine Transfer Tank</td>
</tr>
<tr>
<td>SEP-076</td>
<td>EU-76A</td>
<td>Alcohol Loadout</td>
</tr>
<tr>
<td>SEP-076</td>
<td>EU-76B</td>
<td>Alcohol Loadout Flare – Natural Gas</td>
</tr>
<tr>
<td>SEP-077</td>
<td>EU-77</td>
<td>Corrosion Inhibitor Tank Vent</td>
</tr>
<tr>
<td>SEP-080</td>
<td>EU-80</td>
<td>#3 Hi-Wine Process Tank</td>
</tr>
<tr>
<td>SEP-081</td>
<td>EU-81</td>
<td>Fusel Oil Tank</td>
</tr>
<tr>
<td>SEP-082</td>
<td>EU-82</td>
<td>190 Proof Storage Tank</td>
</tr>
<tr>
<td>SEP-250</td>
<td>EU-250</td>
<td>Alcohol Collection Blower #1</td>
</tr>
<tr>
<td>SEP-251</td>
<td>EU-251</td>
<td>Alcohol Collection Blower #2</td>
</tr>
<tr>
<td>SEP-252</td>
<td>EU-252</td>
<td>Alcohol Collection Blower #3</td>
</tr>
<tr>
<td>STARCH MANUFACTURING</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEP-002</td>
<td>EU-2A</td>
<td>Starch Drying – Spray Dryer</td>
</tr>
<tr>
<td>SEP-002</td>
<td>EU-2B</td>
<td>Start Drying – Natural Gas</td>
</tr>
<tr>
<td>Emission Point Number</td>
<td>Emission Unit Number</td>
<td>Emission Unit Description</td>
</tr>
<tr>
<td>-----------------------</td>
<td>----------------------</td>
<td>------------------------------------------------------------------</td>
</tr>
<tr>
<td>SEP-003</td>
<td>EU-3</td>
<td>Corn Starch Loadout #1</td>
</tr>
<tr>
<td>SEP-004</td>
<td>EU-4</td>
<td>Corn Starch Loadout #2</td>
</tr>
<tr>
<td>SEP-007</td>
<td>EU-7</td>
<td>Starch Transfer and Loadout</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>MALTODEXTRIN</strong></td>
</tr>
<tr>
<td>SEP-120</td>
<td>EU-120</td>
<td>Maltodextrin Storage Bin #6</td>
</tr>
<tr>
<td>SEP-122</td>
<td>EU-122A</td>
<td>Maltodextrin Spray Dryer</td>
</tr>
<tr>
<td>SEP-122</td>
<td>EU-122B</td>
<td>Maltodextrin Spray Dryer – Natural Gas</td>
</tr>
<tr>
<td>SEP-123</td>
<td>EU-123</td>
<td>Maltodextrin Storage Bin #5</td>
</tr>
<tr>
<td>SEP-124</td>
<td>EU-124</td>
<td>Maltodextrin Packaging Transfer Line</td>
</tr>
<tr>
<td>SEP-125</td>
<td>EU-125</td>
<td>Maltodextrin Vacuum / Reprocess System</td>
</tr>
<tr>
<td>SEP-126</td>
<td>EU-126</td>
<td>Maltodextrin Storage Bin #4</td>
</tr>
<tr>
<td>SEP-127</td>
<td>EU-127</td>
<td>Maltodextrin Storage Bin #3</td>
</tr>
<tr>
<td>SEP-128</td>
<td>EU-128</td>
<td>Maltodextrin Storage Bin #2</td>
</tr>
<tr>
<td>SEP-129</td>
<td>EU-129</td>
<td>Maltodextrin Packaging System</td>
</tr>
<tr>
<td>SEP-130</td>
<td>EU-130</td>
<td>Maltodextrin Storage Bin #1</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>FRUCTOSE</strong></td>
</tr>
<tr>
<td>SEP-153</td>
<td>EU-153A</td>
<td>Fructose East MR Evaporator Vent</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>SYRUP / REFINERY</strong></td>
</tr>
<tr>
<td>SEP-034</td>
<td>EU-34A</td>
<td>Carbon Furnace</td>
</tr>
<tr>
<td>SEP-034</td>
<td>EU-34B</td>
<td>Carbon Furnace – Natural Gas</td>
</tr>
<tr>
<td>SEP-112</td>
<td>EU-112</td>
<td>Refinery Acid Tank Scrubber System</td>
</tr>
<tr>
<td>SEP-114</td>
<td>EU-114A</td>
<td>Carbon Furnace #2</td>
</tr>
<tr>
<td>SEP-114</td>
<td>EU-114B</td>
<td>Carbon Furnace #2 – Natural Gas</td>
</tr>
<tr>
<td>SEP-387</td>
<td>EU-387</td>
<td>Refinery Heavy Steepwater Tank</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>UTILITIES</strong></td>
</tr>
<tr>
<td>SEP-091</td>
<td>EU-91</td>
<td>Dry Starch Diesel Generator</td>
</tr>
<tr>
<td>SEP-092</td>
<td>EU-92</td>
<td>#3 Cooling Tower Emergency Generator</td>
</tr>
<tr>
<td>SEP-093</td>
<td>EU-93</td>
<td>Alcohol / Waste Treatment Emergency Generator</td>
</tr>
<tr>
<td>SEP-094</td>
<td>EU-94</td>
<td>Fructose Emergency Generator</td>
</tr>
<tr>
<td>SEP-095</td>
<td>EU-95</td>
<td>North Corn Plant Diesel Fire Pump</td>
</tr>
<tr>
<td>SEP-096</td>
<td>EU-96</td>
<td>South Corn Plant Diesel Fire Pump</td>
</tr>
<tr>
<td>SEP-097</td>
<td>EU-97</td>
<td>Boiler Room #2 Emergency Diesel Generator</td>
</tr>
<tr>
<td>SEP-170</td>
<td>EU-170A</td>
<td>Fructose Cooling Tower #2 Cell A</td>
</tr>
<tr>
<td>SEP-170</td>
<td>EU-170B</td>
<td>Fructose Cooling Tower #2 Cell B</td>
</tr>
<tr>
<td>SEP-170</td>
<td>EU-170C</td>
<td>Fructose Cooling Tower #2 Cell C</td>
</tr>
<tr>
<td>SEP-170</td>
<td>EU-170D</td>
<td>Fructose Cooling Tower #2 Cell D</td>
</tr>
<tr>
<td>SEP-170</td>
<td>EU-170E</td>
<td>Fructose Cooling Tower #2 Cell E</td>
</tr>
<tr>
<td>SEP-516</td>
<td>EU-516</td>
<td>Co-Gen Emergency Generator</td>
</tr>
<tr>
<td>Emission Point Number</td>
<td>Emission Unit Number</td>
<td>Emission Unit Description</td>
</tr>
<tr>
<td>-----------------------</td>
<td>----------------------</td>
<td>---------------------------</td>
</tr>
<tr>
<td>EU-517</td>
<td>East Co-Gen Diesel Fire Pump</td>
<td>Exempt</td>
</tr>
<tr>
<td>EU-518</td>
<td>West Co-Gen Diesel Fire Pump</td>
<td>Exempt</td>
</tr>
<tr>
<td>SEP-540</td>
<td>Co-Gen 2 Emergency Diesel Generator</td>
<td>4712 / 4853</td>
</tr>
<tr>
<td><strong>COGENERATION PLANT</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEP-459</td>
<td>EU-459 Natural Gas Fired Boiler #3</td>
<td>5238 / 5789</td>
</tr>
<tr>
<td>SEP-460</td>
<td>EU-460 Natural Gas Fired Boiler #2</td>
<td>5239 / 5790</td>
</tr>
<tr>
<td>SEP-501</td>
<td>EU-501A Co-Gen Boiler #1 Bituminous Coal</td>
<td>6131 / 6267</td>
</tr>
<tr>
<td>SEP-501</td>
<td>EU-501AN Co-Gen Boiler #1 Natural Gas</td>
<td>6131 / 6267</td>
</tr>
<tr>
<td>SEP-501</td>
<td>EU-501AF Co-Gen Boiler #1 Fuel Oil</td>
<td>6131 / 6267</td>
</tr>
<tr>
<td>SEP-501</td>
<td>EU-501B Co-Gen Boiler #2 Bituminous Coal</td>
<td>6131 / 6267</td>
</tr>
<tr>
<td>SEP-501</td>
<td>EU-501BN Co-Gen Boiler #2 Natural Gas</td>
<td>6131 / 6267</td>
</tr>
<tr>
<td>SEP-501</td>
<td>EU-501BF Co-Gen Boiler #2 Fuel Oil</td>
<td>6131 / 6267</td>
</tr>
<tr>
<td>SEP-502</td>
<td>EU-502A Co-Gen Boiler #3 Bituminous Coal</td>
<td>6132 / 6268</td>
</tr>
<tr>
<td>SEP-502</td>
<td>EU-502AN Co-Gen Boiler #3 Natural Gas</td>
<td>6132 / 6268</td>
</tr>
<tr>
<td>SEP-502</td>
<td>EU-502AF Co-Gen Boiler #3 Fuel Oil</td>
<td>6132 / 6268</td>
</tr>
<tr>
<td>SEP-502</td>
<td>EU-502B Co-Gen Boiler #4 Bituminous Coal</td>
<td>6132 / 6268</td>
</tr>
<tr>
<td>SEP-502</td>
<td>EU-502BN Co-Gen Boiler #4 Natural Gas</td>
<td>6132 / 6268</td>
</tr>
<tr>
<td>SEP-502</td>
<td>EU-502BF Co-Gen Boiler #4 Fuel Oil</td>
<td>6132 / 6268</td>
</tr>
<tr>
<td>SEP-503</td>
<td>EU-503 Bunker Dust Collector</td>
<td>6163 / 6235</td>
</tr>
<tr>
<td>SEP-504</td>
<td>EU-504 Crusher Building Dust Collector System</td>
<td>5801 / 5970</td>
</tr>
<tr>
<td>SEP-505</td>
<td>EU-505 Limestone Unloading Dust Collector</td>
<td>5802 / 5971</td>
</tr>
<tr>
<td>SEP-506</td>
<td>EU-506 Fly Ash Conveying Dust Collector A</td>
<td>5803 / 5972</td>
</tr>
<tr>
<td>SEP-506</td>
<td>EU-507 Fly Ash Conveying Dust Collector B</td>
<td>5803 / 5972</td>
</tr>
<tr>
<td>SEP-506</td>
<td>EU-509 Bed Ash Conveying Dust Collector A</td>
<td>5803 / 5972</td>
</tr>
<tr>
<td>SEP-506</td>
<td>EU-510 Bed Ash Conveying Dust Collector B</td>
<td>5803 / 5972</td>
</tr>
<tr>
<td>SEP-506</td>
<td>EU-520 Fly Ash Conveying Dust Collector C</td>
<td>5803 / 5972</td>
</tr>
<tr>
<td>SEP-506</td>
<td>EU-541 Bed Ash Conveying Dust Collector C</td>
<td>5803 / 5972</td>
</tr>
<tr>
<td>SEP-508</td>
<td>EU-508 Fly Ash Silo Vent Dust Collector</td>
<td>2079 / 2008</td>
</tr>
<tr>
<td>SEP-512</td>
<td>EU-512 Transferring Limestone into Storage Dust Collector</td>
<td>6730 / 6611</td>
</tr>
<tr>
<td>SEP-513</td>
<td>EU-513 Transferring Limestone into Storage Dust Collector</td>
<td>6729 / 6612</td>
</tr>
<tr>
<td>SEP-514</td>
<td>EU-514 Coal Truck Dump Pit Dust Collector (South)</td>
<td>6108 / 6236</td>
</tr>
<tr>
<td>SEP-515</td>
<td>EU-515 Coal Truck Dump Pit Dust Collector (North)</td>
<td>6120 / 6237</td>
</tr>
<tr>
<td>SEP-521</td>
<td>EU-521 Co-Gen HCl and Neutralization Tanks</td>
<td>4943 / 5306</td>
</tr>
<tr>
<td>SEP-522</td>
<td>EU-522 Co-Gen Turbine Lube Oil Tanks 1-5</td>
<td>4092 / 4035</td>
</tr>
<tr>
<td>SEP-530</td>
<td>EU-530A Co-Gen Boiler No. 5 Bituminous Coal</td>
<td>5096 / 5045</td>
</tr>
<tr>
<td>Emission Point Number</td>
<td>Emission Unit Number</td>
<td>Emission Unit Description</td>
</tr>
<tr>
<td>-----------------------</td>
<td>----------------------</td>
<td>---------------------------</td>
</tr>
<tr>
<td>SEP-530</td>
<td>EU-530AN</td>
<td>Co-Gen Boiler No. 5 Natural Gas</td>
</tr>
<tr>
<td>SEP-530</td>
<td>EU-530AF</td>
<td>Co-Gen Boiler No. 5 Fuel Oil</td>
</tr>
<tr>
<td>SEP-532</td>
<td>EU-532</td>
<td>Fly Ash Conveying System D</td>
</tr>
<tr>
<td>SEP-533</td>
<td>EU-533</td>
<td>Fly Ash Conveying System F</td>
</tr>
<tr>
<td>SEP-534</td>
<td>EU-534</td>
<td>Fly Ash Silo Vent</td>
</tr>
<tr>
<td>SEP-535</td>
<td>EU-535</td>
<td>Bed Ash Conveying System D</td>
</tr>
<tr>
<td>SEP-536</td>
<td>EU-536</td>
<td>Bed Ash Conveying System E</td>
</tr>
<tr>
<td>SEP-537</td>
<td>EU-537</td>
<td>Coal Bunker</td>
</tr>
<tr>
<td>SEP-538</td>
<td>EU-538</td>
<td>Bed Ash Silo Vent</td>
</tr>
<tr>
<td>SEP-539</td>
<td>EU-539</td>
<td>Co-Gen Turbine Lube Oil Tank No. 6</td>
</tr>
<tr>
<td>SEP-542</td>
<td>EU-542</td>
<td>Co-Gen Biomass Bin #1</td>
</tr>
<tr>
<td>SEP-543</td>
<td>EU-543</td>
<td>Co-Gen Biomass Bin #2</td>
</tr>
<tr>
<td>SEP-544</td>
<td>EU-544</td>
<td>Co-Gen Limestone Conveying Dust Collection</td>
</tr>
<tr>
<td><strong>BULK CHEMICALS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEP-009</td>
<td>EU-9</td>
<td>Soda Ash Slur O Lyzer</td>
</tr>
<tr>
<td>SEP-020</td>
<td>EU-20</td>
<td>Hydrochloric Acid Storage Vent</td>
</tr>
<tr>
<td>SEP-033</td>
<td>EU-33</td>
<td>Bulk Precoat System</td>
</tr>
<tr>
<td>SEP-165</td>
<td>EU-165</td>
<td>Plate Wash Tanks</td>
</tr>
<tr>
<td><strong>WASTE TREATMENT</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEP-240</td>
<td>EU-240</td>
<td>Equalization Basin</td>
</tr>
<tr>
<td>SEP-242</td>
<td>EU-242</td>
<td>West Aeration Basin</td>
</tr>
<tr>
<td>SEP-243</td>
<td>EU-243</td>
<td>East Aeration Basin</td>
</tr>
<tr>
<td>SEP-244</td>
<td>EU-244</td>
<td>Biototron #1</td>
</tr>
<tr>
<td>SEP-245</td>
<td>EU-245</td>
<td>Biototron #2</td>
</tr>
<tr>
<td>SEP-246</td>
<td>EU-246</td>
<td>Biototron #3</td>
</tr>
<tr>
<td>SEP-247</td>
<td>EU-247</td>
<td>East Clarifier</td>
</tr>
<tr>
<td>SEP-248</td>
<td>EU-248</td>
<td>Center Clarifier</td>
</tr>
<tr>
<td>SEP-249</td>
<td>EU-249</td>
<td>West Clarifier</td>
</tr>
<tr>
<td><strong>BIOMASS PROCESSING</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEP-087</td>
<td>EU-87</td>
<td>Biosolids Dryer</td>
</tr>
<tr>
<td>SEP-089</td>
<td>EU-89</td>
<td>Biosolids Dryer</td>
</tr>
<tr>
<td>SEP-098</td>
<td>EU-98</td>
<td>Biosolids Storage Bin #1</td>
</tr>
<tr>
<td>SEP-099</td>
<td>EU-99</td>
<td>Biosolids Storage Bin #2</td>
</tr>
<tr>
<td>SEP-100</td>
<td>EU-100</td>
<td>Biosolids Storage Bin #3</td>
</tr>
<tr>
<td>SEP-101</td>
<td>EU-101</td>
<td>Biomass Truck Loadout</td>
</tr>
<tr>
<td>Insignificant Emission Unit Number</td>
<td>Insignificant Emission Unit Description</td>
<td></td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>----------------------------------------</td>
<td></td>
</tr>
<tr>
<td>ELEVATOR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MILL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EU-225</td>
<td>Corn Wet Milling – Millhouse Sewage Tank (ATI 3395 / PTO 3259)</td>
<td></td>
</tr>
<tr>
<td>60% GLUTEN MEAL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GERM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>21% FIBER FEED</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PELLET MILL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ALCOHOL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EU-88</td>
<td>Alcohol Caustic Tank (ATI 3769 / PTO 3593)</td>
<td></td>
</tr>
<tr>
<td>STARCH MANUFACTURING</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MALTODEXTRIN</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EU-121</td>
<td>Maltodextrin – Evaporation (ATI 5138 / PTO 5230)</td>
<td></td>
</tr>
<tr>
<td>FRUCTOSE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EU-42</td>
<td>Dilute HCl Storage Tank (ATI 2110 / PTO 2021)</td>
<td></td>
</tr>
<tr>
<td>EU-52</td>
<td>Reclaimed Acid Tank Vent (ATI 1570 / PTO 1293)</td>
<td></td>
</tr>
<tr>
<td>EU-53</td>
<td>Anion Waste Storage (ATI 1563 / PTO 1289)</td>
<td></td>
</tr>
<tr>
<td>EU-54</td>
<td>SO₂ Dilution Tank &amp; Magnesium Bisulfite Storage (ATI 4099 / PTO 4068)</td>
<td></td>
</tr>
<tr>
<td>EU-151</td>
<td>Fructose Evaporation (ATI 3381 / PTO 3241)</td>
<td></td>
</tr>
<tr>
<td>EU-152</td>
<td>Fructose Evaporation (ATI 3382 / PTO 3242)</td>
<td></td>
</tr>
<tr>
<td>EU-154</td>
<td>Fructose Neutralization (ATI 3378 / PTO 3244)</td>
<td></td>
</tr>
<tr>
<td>EU-155</td>
<td>Fructose Neutralization (ATI 3379 / PTO 3245)</td>
<td></td>
</tr>
<tr>
<td>EU-159</td>
<td>Fructose Evaporation (ATI 3224 / PTO 3135)</td>
<td></td>
</tr>
<tr>
<td>SYRUP / REFINERY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EU-111</td>
<td>Corn Wet Milling – Hotwell Sewer Tank (ATI 3427 / PTO 3237)</td>
<td></td>
</tr>
<tr>
<td>EU-117</td>
<td>Corn Wet Milling – No. 2 Converter Hotwell (ATI 3431 / PTO 3240)</td>
<td></td>
</tr>
<tr>
<td>EU-118</td>
<td>Corn Wet Milling - #3 &amp; #4 Evaporator Jets Hotwell Vent (ATI 3970 / PTO 3900)</td>
<td></td>
</tr>
<tr>
<td>EU-389</td>
<td>Carbon Transfer System (ATI 5033 / PTO 5304)</td>
<td></td>
</tr>
<tr>
<td>EU-390</td>
<td>Carbon Transfer System (ATI 5034 / PTO 5305)</td>
<td></td>
</tr>
<tr>
<td>Insignificant Emission Unit Number</td>
<td>Insignificant Emission Unit Description</td>
<td></td>
</tr>
<tr>
<td>------------------------------------</td>
<td>------------------------------------------</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>UTILITIES</strong></td>
<td></td>
</tr>
<tr>
<td>EU-519</td>
<td>Boiler Room Sewer Tank Vent (ATI 3439 / PTO 3353)</td>
<td></td>
</tr>
<tr>
<td>EU-523</td>
<td>Corn Plant Diesel Fuel Tank (ATI 4590 / PTO 4702)</td>
<td></td>
</tr>
<tr>
<td>EU-524</td>
<td>Corn Plant Gasoline Tank (ATI 4591 / PTO 4703)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>CO-GENERATION PLANT</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>BULK CHEMICALS</strong></td>
<td></td>
</tr>
<tr>
<td>EU-164</td>
<td>Plate Adhesive Hood (ATI 5914 / PTO 5973)</td>
<td></td>
</tr>
<tr>
<td>EU-300</td>
<td>CT #1 Sulfuric Acid Tank (ATI 4658 / PTO 4726)</td>
<td></td>
</tr>
<tr>
<td>EU-301</td>
<td>CT #2 Sulfuric Acid Tank (ATI 4657 / PTO 4727)</td>
<td></td>
</tr>
<tr>
<td>EU-303</td>
<td>Alcohol Sulfuric Acid Tank (ATI 4655 / PTO 4729)</td>
<td></td>
</tr>
<tr>
<td>EU-305</td>
<td>Cogen North CT Sulfuric Acid Tank (ATI 4653 / PTO 4731)</td>
<td></td>
</tr>
<tr>
<td>EU-306</td>
<td>Cogen South CT Sulfuric Acid Tank (ATI 4652 / PTO 4732)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>WASTE TREATMENT</strong></td>
<td></td>
</tr>
<tr>
<td>EU-84</td>
<td>Treated Outfall #1 Building - Outfall Plume (ATI 3681 / PTO 3505)</td>
<td></td>
</tr>
<tr>
<td>EU-85</td>
<td>Treated Outfall #2 Building (ATI 3426 / PTO 3228)</td>
<td></td>
</tr>
<tr>
<td>EU-302</td>
<td>Aeration Basin Sulfuric Acid Tank (ATI 4656 / PTO 4728)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>BIOMASS PROCESSING</strong></td>
<td></td>
</tr>
<tr>
<td>Insignificant Emission Unit Number</td>
<td>Insignificant Emission Unit Description</td>
<td></td>
</tr>
<tr>
<td>------------------------------------</td>
<td>-------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>IU-001</td>
<td>New Oil Storage Tanks</td>
<td></td>
</tr>
<tr>
<td>IU-002</td>
<td>Used Oil Storage Tanks</td>
<td></td>
</tr>
<tr>
<td>IU-003</td>
<td>Backup Generator Fuel Tanks</td>
<td></td>
</tr>
<tr>
<td>IU-004</td>
<td>Fire Pump Fuel Tanks</td>
<td></td>
</tr>
<tr>
<td>IU-005</td>
<td>Parts Cleaners</td>
<td></td>
</tr>
<tr>
<td>CDT</td>
<td>Co-Gen Diesel Fuel Tank</td>
<td></td>
</tr>
<tr>
<td>CGT</td>
<td>Co-Gen Gasoline Tank</td>
<td></td>
</tr>
<tr>
<td>ALO</td>
<td>WM Alcohol Loadout Diesel Tank</td>
<td></td>
</tr>
<tr>
<td>DSD</td>
<td>Dry Starch Generator Diesel Tank</td>
<td></td>
</tr>
<tr>
<td>WTD</td>
<td>Waste Treatment Diesel Tank</td>
<td></td>
</tr>
<tr>
<td>C3D</td>
<td>Cooling Tower 3 Generator Diesel Tank</td>
<td></td>
</tr>
<tr>
<td>FGD</td>
<td>Fructose Generator Diesel Tank</td>
<td></td>
</tr>
<tr>
<td>NFP</td>
<td>Corn Plant North Fire Pump Diesel Tank</td>
<td></td>
</tr>
<tr>
<td>SFP</td>
<td>Corn Plant South Fire Pump Diesel Tank</td>
<td></td>
</tr>
<tr>
<td>BRD</td>
<td>CP Boiler Room Generator Diesel Tank</td>
<td></td>
</tr>
<tr>
<td>CWF</td>
<td>Co-Gen West Pump Diesel Tank</td>
<td></td>
</tr>
<tr>
<td>CEF</td>
<td>Co-Gen East Fire Pump Diesel Tank</td>
<td></td>
</tr>
<tr>
<td>CD1</td>
<td>Co-Gen Generator #1 Diesel Tank</td>
<td></td>
</tr>
<tr>
<td>CD2</td>
<td>Co-Gen Generator #2 Diesel Tank</td>
<td></td>
</tr>
</tbody>
</table>
II. Plant-Wide Conditions

Facility Name: ADM Corn Processing
Permit Number: 08-TV-004R1-M002

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

Permit Duration

The term of this permit is: less than 5 years
Commencing on: January 6, 2017
Ending on: January 5, 2022

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): 20% opacity
Authority for Requirement: LCO 10.7

Sulfur Dioxide (SO2): 500 parts per million by volume
Authority for Requirement: 567 IAC 23.3(3)"e"
LCO 10.12(2)

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"

Particulate Matter:
No person shall permit, cause, suffer or allow the emission of particulate matter into the atmosphere in any one hour from any emission point from any process equipment at a rate in
excess of that specified in Table I for the process weight rate allocated to such emission point. The emission standards in LCO 10.9 (1)"a" shall apply and those specified in LCO 10.8 and 10.9 and Table I shall not apply to each process of the types listed in those sections, with the following exception: whenever the compliance status, history of operations, ambient air quality in the vicinity, or the type of control equipment utilized, would warrant maximum control, the Air Pollution Control Officer may enforce 0.1 grain per standard cubic foot of exhaust gas, or Table I of this section, whichever would result in the lowest allowable emission rate.

Authority for Requirement: LCO 10.9(1)

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

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

Authority for Requirement: 567 IAC 23.3(2)"e"
Regulatory Authority
This facility is located in Linn County, Iowa. Linn County Public Health, under agreement with the Iowa Department of Natural Resources (IDNR), is the primary regulatory agency in Linn County. This Title V permit is issued by the Iowa Department of Natural Resources, however, required contacts and information submittals referred to in this permit as required by "the Department" should continue to be directed to the Linn County Public Health office. This will include such items as stack test notification, stack test results submittal, oral and written excess emission reports, and reports and records required in the Linn County construction permits. Information specifically required by the Title V permit such as the annual EIQ and fees, annual compliance certification, semi-annual monitoring report and any Title V forms submitted for updates, modifications, renewals, etc. must be submitted to the Iowa DNR. Stack test notifications and test results for tests required as periodic monitoring in the Title V permit shall be submitted to Linn County Public Health. Stack test protocols and test results conducted as required by a PSD permit shall be submitted to the IDNR and Linn County Public Health Air Quality Division.

Authority for Requirement: 567 IAC 22.108

40 CFR 63 NESHAP Subpart FFFF, Miscellaneous Organic Chemical Manufacturing
The requirements of the NESHAP in 40 CFR 63, Subpart FFFF apply to the miscellaneous organic chemical manufacturing process units at this source (including but not limited to process vents, storage tanks, transfer stations, pumps, compressors, agitators, pressure relief devices, sampling connection systems, open-ended valves or lines, valves, connectors, and instrumentation systems used in the ethanol manufacturing process). Specific emission units subject to this requirement will be determined by the compliance date. The requirements include, but are not limited to the following:

The emission limits, work practice standards, and compliance requirements pursuant to 40 CFR §63.2450-63.2490.

The notification, reporting, and recordkeeping requirements pursuant to 40 CFR §63.2515-63.2525.

The proposed compliance date for the existing chemical manufacturing process units at this source are May 10, 2008. The facility must comply with all requirements of this subpart by the compliance date as determined in the final rule.

Authority for Requirement: LCO 10.9(4) “ffff”
567 IAC 23.1(4)”cfr”
40 CFR 63 Subpart FFFF
Compliance Plan

The owner/operator shall comply with the applicable requirements listed below. The compliance status is based on information provided by the applicant.

Unless otherwise noted in Section III of this permit, ADM Corn Processing is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which become effective during the permit term, ADM Corn Processing shall comply with such requirements in a timely manner.

Authority for Requirement: 567 IAC 22.108(15)
### III. Emission Point-Specific Conditions

Facility Name: ADM Corn Processing  
Permit Number: 08-TV-004R1-M002

#### Emission Point ID Number: SEP-008  
Process Area: ELEVATOR

**Table Elevator-1. Associated Equipment.**

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
<th>CE ID</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-008</td>
<td>EU-8</td>
<td>Corn Truck Receiving</td>
<td>Corn</td>
<td>45,000 bu/hr</td>
<td>CE-008</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-8B</td>
<td>400 Leg</td>
<td>Corn</td>
<td>45,000 bu/hr</td>
<td>CE-008</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-8C</td>
<td>Transfer Conveyor</td>
<td>Corn</td>
<td>25,000 bu/hr</td>
<td>CE-008</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-10A</td>
<td>60% Gluten Meal Cooler #1</td>
<td>60% Gluten Meal</td>
<td>18,750 bu/hr</td>
<td>CE-010</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-10B</td>
<td>60% Gluten Meal Cooler #2</td>
<td>60% Gluten Meal</td>
<td>18,750 bu/hr</td>
<td>CE-010</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-22</td>
<td>Corn Cleaners System B</td>
<td>Corn</td>
<td>30,000 bu/hr</td>
<td>CE-022</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-22B</td>
<td>Cleaner Leg</td>
<td>Corn</td>
<td>33,300 bu/hr</td>
<td>CE-022</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-23</td>
<td>Cracked Corn Receiving</td>
<td>Cracked Corn</td>
<td>25,000 lb/hr</td>
<td>CE-023</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-40</td>
<td>Germ to Storage Conveying</td>
<td>Germ</td>
<td>64,690 lb/hr</td>
<td>CE-040</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-48</td>
<td>Gluten Meal Milling</td>
<td>60% Gluten Meal</td>
<td>45,000 lb/hr</td>
<td>CE-048</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-49</td>
<td>Gluten Meal Storage</td>
<td>60% Gluten Meal</td>
<td>18,750 bu/hr</td>
<td>CE-049</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-86A</td>
<td>Gluten Truck Loading</td>
<td>60% Gluten Meal</td>
<td>18,750 bu/hr</td>
<td>CE-086</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-86B</td>
<td>Gluten Rail Loading</td>
<td>60% Gluten Meal</td>
<td>200 ton/hr</td>
<td>CE-086</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-180B</td>
<td>Steel Tank Leg</td>
<td>Corn</td>
<td>20,000 bu/hr</td>
<td>CE-180</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-180C</td>
<td>Silo to Steeps Drag Conveyors</td>
<td>Corn</td>
<td>25,000 bu/hr</td>
<td>CE-180</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-180D</td>
<td>Silo to Steeps Drag Conveyors</td>
<td>Corn</td>
<td>25,000 bu/hr</td>
<td>CE-180</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-180E</td>
<td>Steep House Corn Hopper</td>
<td>Corn</td>
<td>3,000 bushels</td>
<td>CE-180</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-008</td>
<td>EU-181</td>
<td>Rail Dump</td>
<td>Corn</td>
<td>30,000 bu/hr</td>
<td>CE-181</td>
<td>Baghouse</td>
</tr>
</tbody>
</table>
Note: EU-8, EU-8B, and EU-8C are controlled by CE-008. This is the normal operation that represents 99% of the operating time. CE-008, CE-180, and CE-181 are connected through common ducting but are typically isolated from each other with slide gates. During maintenance periods, a baghouse can be isolated from the system and the other two can be opened to share the load. The flow rates will be reduced during maintenance periods.

### 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 Elevator-2. Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>Pollutant</th>
<th>Emission Limit(s)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-008</td>
<td>Opacity</td>
<td>20%&lt;sup&gt;4,5&lt;/sup&gt;</td>
<td>LCO 10.7</td>
</tr>
<tr>
<td>SEP-008</td>
<td>Opacity</td>
<td>5%&lt;sup&gt;4,5&lt;/sup&gt; (truck unloading)</td>
<td>LCPH ATI 6051 / PTO 6148R1</td>
</tr>
<tr>
<td>SEP-008</td>
<td>Opacity</td>
<td>0% (grain handling operations)&lt;sup&gt;4,5&lt;/sup&gt;</td>
<td>LCPH ATI 6051 / PTO 6148R1</td>
</tr>
<tr>
<td>SEP-008</td>
<td>PM/PM&lt;sub&gt;10&lt;/sub&gt;</td>
<td>6.05 lb/hr&lt;sup&gt;3&lt;/sup&gt;</td>
<td>LCPH ATI 6051 / PTO 6148R1</td>
</tr>
<tr>
<td>SEP-008</td>
<td>PM&lt;sub&gt;10&lt;/sub&gt;</td>
<td>14.4 tpy&lt;sup&gt;6&lt;/sup&gt;</td>
<td>LCPH ATI 6051 / PTO 6148R1</td>
</tr>
<tr>
<td>SEP-008</td>
<td>PM</td>
<td>0.01 gr/dscf</td>
<td>LCPH ATI 6051 / PTO 6148R1</td>
</tr>
<tr>
<td>SEP-008</td>
<td>VOC</td>
<td>9.06 lb/hr</td>
<td>LCPH ATI 6051 / PTO 6148R1</td>
</tr>
</tbody>
</table>

<sup>1</sup> Standard is expressed as the average of 3 runs.

<sup>2</sup> Standard is a 12-month rolling total.

<sup>3</sup> Emission rate used to demonstrate no exceedance of the National Ambient Air Quality Standards (NAAQS).

<sup>4</sup> The observation of visible emissions of air contaminants as defined in LCO 10.2 will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the visible emissions. If visible emissions continue after the corrections, Linn County may require additional proof to demonstrate compliance (e.g., stack testing).

<sup>5</sup> An exceedance of no visible emissions will require the owner/operator to promptly conduct an EPA Method 9 evaluation to determine compliance with the NSPS DD opacity limit.

<sup>6</sup> This emission limit is a PSD Synthetic minor limit that was established for this project which includes EP-8, EP-180 and EP-181.

### Operating Limits and Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.
Control Equipment:
Multiple baghouses shall be installed to control particulate matter emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in condition 14 [Operating Limits] shall be installed, maintained and operating during the operation of the emission unit and control equipment at all times.

Authority for Requirement: LCPH ATI 6051 / PTO 6148R1

New Source Performance Standards (NSPS) and National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability:
In general, the federal standards of performance for new stationary sources (new source performance standards) shall be applicable as specified in LCO 10.9(2) and 567 IAC 23.1(2). The federal standards for hazardous air pollutants (national emission standards for hazardous air pollutants) shall be applicable as specified in LCO 10.9(3) and 567 IAC 23.1(3). The federal standards for hazardous air pollutants for source categories (national emission standards for hazardous air pollutants for source categories) shall be applicable as specified in LCO 10.9(4) and 567 IAC 23.1(4).

A. This emission source, new conveyors only, is subject to Subpart A (General Provisions, 40 CFR §60.1 – 40 CFR §60.19) and Subpart DD, Standards of Performance for Grain Elevators; 40 CFR §60.300 - 40 CFR §60.304) of the New Source Performance Standards (NSPS).

B. This emission unit is not subject to a NESHAP as there are no subparts for this source category.

Authority for Requirement: LCPH ATI 6051 / PTO 6148R1

Operating Limits:
A. The facility-wide grind shall be limited to 450,000 bushels of corn per day based on a 52-week rolling average.

B. The differential pressure measured across each baghouse, with the exception of EU-008, shall be greater than 0.2 inches of water column and less than 6 inches of water column. The differential pressure measured across EU-008 shall be greater than 1.0 inch of water column and less than 8.0 inches of water column.

C. Each baghouse shall be maintained according to the manufacturer’s specifications and/or good operating practices.

D. The baseline actual emissions for the project are equal to 15.56 tons per year for PM10.

E. The owner or the operator shall determine the actual emissions for the project by summing the emissions from the following emission points each month: EP-8, EP-180 and EP-181.

F. Actual emissions minus the baseline actual emissions from the project shall not exceed the PSD significant levels: 14.4 tons per 12-month rolling period of PM10. If the emission increases from the project do not exceed the PSD significance levels at any time from the resumption of regular operations to the end of the five (5) year review period,
the 14.4 tons per year limit will no longer apply. If these limits are exceeded during the five (5) year review period, the owner or operator shall submit a report pursuant to 567 IAC 33.3(18)'f'(7).

G. Per 567 IAC 33.3(18)'f'(1), prior to beginning actual construction of the project the owner or operator shall document:

1) A description of the project,

2) Identification of the emissions unit(s) whose emissions of a regulated NSR pollutant could be affected by the project, and

3) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including the baseline actual emissions (BAE), the projected actual emissions (PAE), the amount of emissions excluded under paragraph "3" of the definition of "projected actual emissions" in subrule 33.3(1), an explanation describing why such amount was excluded, and any netting analysis if applicable.

H. Per 567 IAC 33.3(18)'f'(4), the owner or operator shall:

1) Monitor the emission of any regulated NSR pollutant that could increase as a result of the project that is emitted by any emissions unit identified in Condition 14.G.(2).

2) Calculate the annual emissions, in tons per year on a calendar-year basis, for a period of five (5) years following resumption of regular operations and maintain a record of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity or potential to emit of that regulated NSR pollutant at such emissions unit (for the purposes of this requirements, “regular” shall be determined by the department on a case-by-case basis).

3) Maintain a written record containing the information required in this subparagraph.

I. Per 567 IAC 33.3(18)'g', the owner or operator shall make the information required to be documented and maintained pursuant to 567 IAC 33.3(18)'f' available for review upon request for inspection by the Department or the general public pursuant to the requirements for Title V operating permits contained in 567 IAC 22.107(6).

Authority for Requirement: LCPH ATI 6051 / PTO 6148R1

Operating Condition Monitoring and Recordkeeping:
Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives. Records shall be legible and maintained in an orderly manner. These records shall show the following:

A. The owner or operator shall monitor and record ‘no visible emissions’ observations on a weekly basis. An exceedance of ‘no visible emissions’ will require the owner/operator to promptly conduct an EPA Method 9 evaluation to determine compliance with the NSPS DD opacity limit, investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.

B. Record the weekly average facility grind rate.
C. Monitor and record the pressure differential across each baghouse on a weekly basis while the control equipment and emission units are in operation.

D. Monitor and record any maintenance and repair completed on the control devices.

E. Record the monthly sum of the actual \( PM_{10} \) emissions from the following emission points: EP-008, EP-180 and EP-181.

F. Record monthly the 12-month rolling value of the actual emissions minus the baseline actual emissions from the following emission points: EP-008, EP-180 and EP-181. This written record shall be retained by the owner or operator for a period of ten years after the project is completed.

G. The facility is allowed to exclude those emissions following this change that could have been accommodated during the consecutive 24-month period used to establish BAE that are unrelated to this project (i.e., increased utilization due to demand growth). The facility shall be required to include a justification for any emissions excluded due to demand growth.

H. Per 567 IAC 33.3(18)"f"(1), the owner or operator shall maintain a record of the information required in Condition 14.G. of this permit.

I. Per 567 IAC 33.3(18)"f"(4) and 567 IAC 33.3(18)"f"(5), the owner or operator shall maintain a record containing the information required in Condition 14.H. of this permit and that record shall be retained by the owner or operator for a period of ten (10) years after the project is completed.

Authority for Requirement: LCPH ATI 6051 / PTO 6148R1

**Emission Point Characteristics**

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

**Table Elevator-3.**

<table>
<thead>
<tr>
<th>EP</th>
<th>LCPH ATI / PTO Numbers</th>
<th>Stack Characteristics</th>
<th>Stack Height (feet, above ground)</th>
<th>Discharge Style</th>
<th>Stack Opening (inches, dia.)</th>
<th>Exhaust Temp. (°F)</th>
<th>Exhaust Flow Rate (acfm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-008</td>
<td>6051 / 6148R1</td>
<td>Stack Characteristics</td>
<td>150</td>
<td>Vertical, unobstructed</td>
<td>72</td>
<td>95</td>
<td>125,000</td>
</tr>
</tbody>
</table>

The temperature and flow rates are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature or flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator 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:
The following stack tests shall be performed:

Pollutant – PM$_{10}$
1st Stack Test to be Completed by – within first two years of permit term
Test Method: 40 CFR 60, Appendix A, Method 5 and
40 CFR Part 51, Appendix M, Method 202
Authority for Requirement – 567 IAC 22.108(3)

Pollutant – Particulate Matter
1st Stack Test to be Completed by – within first two years of permit term
Test Method: 40 CFR 60, Appendix A, Method 5 and
40 CFR Part 51, Appendix M, Method 202
Authority for Requirement – 567 IAC 22.108(3)

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

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

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

Authority for Requirement: 567 IAC 22.108(3)
Refer to Appendix B, CAM Plans, for the complete compliance assurance monitoring plan.
Emission Point ID Number: SEP-061, SEP-062, SEP-063, SEP-064
Process Area: ELEVATOR

Table Elevator-4. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
<th>CE ID</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-061</td>
<td>EU-61</td>
<td>#1 Steel Corn Storage Tank</td>
<td>Corn</td>
<td>45,000 bu/hr</td>
<td>CE-061</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-062</td>
<td>EU-62</td>
<td>#2 Steel Corn Storage Tank</td>
<td>Corn</td>
<td>45,000 bu/hr</td>
<td>CE-062</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-063</td>
<td>EU-63</td>
<td>#3 Steel Corn Storage Tank</td>
<td>Corn</td>
<td>45,000 bu/hr</td>
<td>CE-063</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-064</td>
<td>EU-64</td>
<td>#4 Steel Corn Storage Tank</td>
<td>Corn</td>
<td>45,000 bu/hr</td>
<td>CE-064</td>
<td>Baghouse</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 Elevator-5. Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Pollutant</th>
<th>Emission Limit(s)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-061</td>
<td>EU-61</td>
<td>PM/PM10</td>
<td>0.09 lb/hr</td>
<td>LCO ATI 6210 / PTO 6051</td>
</tr>
<tr>
<td>SEP-062</td>
<td>EU-62</td>
<td>Opacity</td>
<td>20%</td>
<td>LCO ATI 6211 / PTO 6052</td>
</tr>
<tr>
<td>SEP-063</td>
<td>EU-63</td>
<td>PM</td>
<td>0.1 gr/dscf</td>
<td>LCO ATI 6212 / PTO 6053</td>
</tr>
<tr>
<td>SEP-064</td>
<td>EU-64</td>
<td></td>
<td></td>
<td>LCO ATI 6213 / PTO 6054</td>
</tr>
</tbody>
</table>

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

Control Device:
A baghouse shall be used to control particulate emissions. The control equipment shall be maintained on this source in a good operating condition at all times. A manometer (or equivalent instrumentation) shall also be installed and maintained on this source.
Operating Limits:
A. The differential pressure measured across the baghouse, CE-061, 062, 063, or 064, shall be maintained between 0.25 inches of water column and 7 inches of water column, with the exception of unit startup.
B. The control equipment on this unit shall be maintained according to the manufacturer’s specification and good operating practices.
C. The facility-wide grind rate shall be limited to 450,000 bushels of corn per day based on a 52-week rolling average.

Operating Condition Monitoring and Recordkeeping:
All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. The owner or operator shall monitor and record ‘no visible emissions’ observations on a weekly basis. An exceedance of ‘no visible emissions’ will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.
B. Monitor and record any maintenance and repair completed on the control equipment.
C. Monitor and record the differential pressure on the baghouse on a weekly basis while the control equipment and emission units are in operation.
D. Calculate and record the weekly facility grind rate average based on 52-week rolling average.
**Emission Point Characteristics**

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

**Table Elevator-6.**

<table>
<thead>
<tr>
<th>EP</th>
<th>LCPH ATI / PTO Numbers</th>
<th>Stack Height (feet, above ground)</th>
<th>Discharge Style</th>
<th>Stack Opening (inches, dia.)</th>
<th>Exhaust Temp. (°F)</th>
<th>Exhaust Flow Rate (acfm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-061</td>
<td>6210 / 6051</td>
<td>88</td>
<td>Vertical, unobstructed</td>
<td>6</td>
<td>70</td>
<td>1035</td>
</tr>
<tr>
<td>SEP-062</td>
<td>6211 / 6052</td>
<td>88</td>
<td>Vertical, unobstructed</td>
<td>6</td>
<td>70</td>
<td>1035</td>
</tr>
<tr>
<td>SEP-063</td>
<td>6212 / 6053</td>
<td>88</td>
<td>Vertical, unobstructed</td>
<td>6</td>
<td>70</td>
<td>1035</td>
</tr>
<tr>
<td>SEP-064</td>
<td>6213 / 6054</td>
<td>88</td>
<td>Vertical, unobstructed</td>
<td>6</td>
<td>70</td>
<td>1035</td>
</tr>
</tbody>
</table>

The temperature and flow rates are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature or flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator 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:**

Stack testing is not required at this time.

**Opacity Monitoring:**

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.
Authority for Requirement: 567 IAC 22.108(14)

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

1 Compliance Assurance Monitoring is required for PM and an agency-approved operation and maintenance plan is required for PM10 at SEP-061, SEP-062, SEP-063, and SEP-064; however, as PM and PM10 are controlled by the same equipment, and CAM is more stringent, the agency-approved operation and maintenance plan requirement has been waived. Note that the increased frequency of differential pressure observations from weekly to daily is required by CAM to meet the minimum standards.

Authority for Requirement: 567 IAC 22.108(3)

Refer to Appendix B, CAM Plans, for the complete compliance assurance monitoring plan.
Emission Point ID Number: SEP-180, SEP-181  
Process Area: ELEVATOR

Table Elevator-7. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
<th>CE ID</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-180/181</td>
<td>EU-180</td>
<td>Bulk Weigh Scale Corn</td>
<td>40,000 bu/hr</td>
<td>CE-180 Baghouse</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEP-180/181</td>
<td>EU-180B</td>
<td>Steel Tank Leg Corn</td>
<td>20,000 bu/hr</td>
<td>CE-180 Baghouse</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEP-180/181</td>
<td>EU-180C</td>
<td>Silo to Steeps Drag Conveyors Corn</td>
<td>25,000 bu/hr each</td>
<td>CE-180 Baghouse</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEP-180/181</td>
<td>EU-180D</td>
<td>Steep House Corn Hopper Corn</td>
<td>3000 bu/hr</td>
<td>CE-180 Baghouse</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEP-180/181</td>
<td>EU-181</td>
<td>Rail Dump Corn</td>
<td>30,000 bu/hr</td>
<td>CE-181 Baghouse</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEP-180/181</td>
<td>EU-181B</td>
<td>200 Leg Corn</td>
<td>30,000 bu/hr</td>
<td>CE-181 Baghouse</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEP-180/181</td>
<td>EU-8</td>
<td>Corn Truck Receiving Corn</td>
<td>45,000 bu/hr</td>
<td>CE-008 Baghouse</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEP-180/181</td>
<td>EU-8B</td>
<td>400 Leg Corn</td>
<td>45,000 bu/hr</td>
<td>CE-008 Baghouse</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEP-180/181</td>
<td>EU-8C</td>
<td>Transfer Conveyor Corn</td>
<td>25,000 bu/hr</td>
<td>CE-008 Baghouse</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEP-180/181</td>
<td>EU-10A</td>
<td>60% Gluten Meal Cooler #1 60% Gluten Meal</td>
<td>18,750 bu/hr</td>
<td>CE-010 Baghouse</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEP-180/181</td>
<td>EU-10B</td>
<td>60% Gluten Meal Cooler #2 60% Gluten Meal</td>
<td>18,750 bu/hr</td>
<td>CE-010 Baghouse</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEP-180/181</td>
<td>EU-22</td>
<td>Corn Cleaners System B Corn</td>
<td>30,000 bu/hr</td>
<td>CE-180 Baghouse</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEP-180/181</td>
<td>EU-22B</td>
<td>Cleaner Leg Corn</td>
<td>33,300 bu/hr</td>
<td>CE-180 Baghouse</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEP-180/181</td>
<td>EU-23</td>
<td>Cracked Corn Receiving Cracked Corn</td>
<td>25,000 lb/hr</td>
<td>CE-023 Baghouse</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEP-180/181</td>
<td>EU-40</td>
<td>Germ to Storage Conveying Germ</td>
<td>64,680 lb/hr</td>
<td>CE-040 Baghouse</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEP-180/181</td>
<td>EU-48</td>
<td>Gluten Meal Milling 60% Gluten Meal</td>
<td>45,000 lb/hr</td>
<td>CE-048 Baghouse</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEP-180/181</td>
<td>EU-49</td>
<td>Gluten Meal Storage 60% Gluten Meal</td>
<td>18,750 bu/hr</td>
<td>CE-049 Baghouse</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEP-180/181</td>
<td>EU-86A</td>
<td>Gluten Truck Loading 60% Gluten Meal</td>
<td>18,750 bu/hr</td>
<td>086 Baghouse</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEP-180/181</td>
<td>EU-86B</td>
<td>Gluten Rail Loading 60% Gluten Meal</td>
<td>200 ton/hr</td>
<td>086 Baghouse</td>
<td></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.

Table Elevator-8. Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Pollutant</th>
<th>Emission Limit(s)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-180</td>
<td>EU-180</td>
<td>Opacity</td>
<td>20%</td>
<td>LCPH ATI 6040 / PTO 6109</td>
</tr>
<tr>
<td>SEP-181</td>
<td>EU-181</td>
<td></td>
<td>0%1,2</td>
<td>LCPH ATI 6041 / PTO 6110</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LCO 10.7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5% (fugitive emission limit for truck unloading)1,2</td>
<td>LCPH ATI 6040 / PTO 6109</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LCPH ATI 6041 / PTO 6110</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>40 CFR §60.302(c)(1)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0% (fugitive emission limit for grain handling operations)1,2</td>
<td>LCPH ATI 6040 / PTO 6109</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LCPH ATI 6041 / PTO 6110</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>40 CFR §60.302(b)(2)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PM10</td>
<td>1.03 lb/hr</td>
<td>LCPH ATI 6040 / PTO 6109</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>14.43 tpy</td>
<td>LCPH ATI 6041 / PTO 6110</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PM</td>
<td>1.03 lb/hr</td>
<td>LCPH ATI 6040 / PTO 6109</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0.01 gr/dscf</td>
<td>LCPH ATI 6041 / PTO 6110</td>
</tr>
</tbody>
</table>

1 An exceedance of no visible emissions will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, Linn County may require additional proof to demonstrate compliance (e.g. stack testing).
2 An exceedance of no visible emissions will require the owner/operator to promptly conduct an EPA Method 9 evaluation to determine compliance with the NSPS DD opacity limit.
3 This emission limit is a PSD Synthetic minor limit that was established for this project which includes EP- 8, EP-180 and EP-181.

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

Control Device:
A baghouse shall be installed to control particulate matter emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in condition 14 [Operating Limits] shall be installed, maintained and operating during the operation of the emission unit and control equipment at all times.

Authority for Requirement: LCPH ATI 6040 / PTO 6109
                           LCPH ATI 6041 / PTO 6110
New Source Performance Standards (NSPS) and National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability:

In general, the federal standards of performance for new stationary sources (new source performance standards) shall be applicable as specified in LCO 10.9(2) and 567 IAC 23.1(2). The federal standards for hazardous air pollutants (national emission standards for hazardous air pollutants) shall be applicable as specified in LCO 10.9(3) and 567 IAC 23.1(3). The federal standards for hazardous air pollutants for source categories (national emission standards for hazardous air pollutants for source categories) shall be applicable as specified in LCO 10.9(4) and 567 IAC 23.1(4).

A. This source is subject to Subpart A – General Provisions (40 CFR Section 60.1 through 40 CFR Section 60.19) of the New Source Performance Standards (NSPS) and Subpart DD – Standards of Performance for Grain Elevators (40 CFR Section 60.300 through 40 CFR Section 60.304) for the new belt conveyors only.

B. This source is not subject to a NESHAP at this time as there are no subparts for this source category.

Authority for Requirement:   LCPH ATI 6040 / PTO 6109
LCPH ATI 6041 / PTO 6110

Operating Limits:

A. The facility-wide grind shall be limited to 450,000 bushels of corn per day based on a 52-week rolling average.

B. The differential pressure measured across each baghouse with the exception of EU-008 shall be greater than 0.2 inches of water column and less than 6 inches of water column. The differential pressure measured across EU-008 shall be greater than 1.0 inch of water column and less than 8.0 inches of water column.

C. Each baghouse shall be maintained according to the manufacturer’s specifications and/or good operating practices.

D. The baseline actual emissions for the project are equal to 15.56 tons per year for PM$_{10}$. The baseline actual emissions shall remain unchanged throughout the five (5) year period following the issuance of this permit [LCPH Project #1682].

E. The owner or the operator shall determine the actual emissions for the project by summing the emissions from the following emission points each month: EP-8, EP-180 and EP-181.

F. Actual emissions minus the baseline actual emissions from the project shall not exceed the PSD significant levels: 14.4 tons per 12-month rolling period of PM$_{10}$. If the emission increases from the project do not exceed the PSD significance levels at any time from the resumption of regular operations to the end of the five (5) year review period, the 14.4 tons per year limit will no longer apply. If these limits are exceeded during the five (5) year review period, the owner or operator shall submit a report pursuant to 567 IAC 33.3(18)'f'(7).

G. Per 567 IAC 33.3(18)'f'(1), prior to beginning actual construction of the project the owner or operator shall document:

1) A description of the project,
2) Identification of the emissions unit(s) whose emissions of a regulated NSR pollutant could be affected by the project, and

3) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including the baseline actual emissions (BAE), the projected actual emissions (PAE), the amount of emissions excluded under paragraph "3" of the definition of "projected actual emissions" in subrule 33.3(1), an explanation describing why such amount was excluded, and any netting analysis if applicable.

H. Per 567 IAC 33.3(18)"f"(4), the owner or operator shall:

1) Monitor the emission of any regulated NSR pollutant that could increase as a result of the project that is emitted by any emissions unit identified in Condition 14.G.(2).

2) Calculate the annual emissions, in tons per year on a calendar-year basis, for a period of five (5) years following resumption of regular operations and maintain a record of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity or potential to emit of that regulated NSR pollutant at such emissions unit (for the purposes of this requirements, “regular” shall be determined by the department on a case-by-case basis).

3) Maintain a written record containing the information required in this subparagraph.

I. Per 567 IAC 33.3(18)"g", the owner or operator shall make the information required to be documented and maintained pursuant to 567 IAC 33.3(18)"f" available for review upon request for inspection by the Department or the general public pursuant to the requirements for Title V operating permits contained in 567 IAC 22.107(6).

Authority for Requirement: LCPH ATI 6040 / PTO 6109
LCPH ATI 6041 / PTO 6110

Operating Condition Monitoring and Recordkeeping:

Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives. Records shall be legible and maintained in an orderly manner. These records shall show the following:

A. The owner or operator shall monitor and record ‘no visible emissions’ observations on a weekly basis. An exceedance of ‘no visible emissions’ will require the owner/operator to promptly conduct an EPA Method 9 evaluation to determine compliance with the NSPS DD opacity limit, investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.

B. Record the weekly average facility grind rate.

C. Monitor and record the pressure differential across each baghouse on a weekly basis while the control equipment and emission units are in operation.

D. Monitor and record any maintenance and repair completed on the control device.

E. Record the monthly sum of the actual PM_{10} emissions from the following emission points: EP-008, EP-180 and EP-181.
F. Record monthly the 12-month rolling value of the actual emissions minus the baseline actual emissions from the following emission points: EP-008, EP-180 and EP-181. This written record shall be retained by the owner or operator for a period of ten years after the project is completed.

G. The facility is allowed to exclude those emissions following this change that could have been accommodated during the consecutive 24-month period used to establish BAE that are unrelated to this project (i.e., increased utilization due to demand growth). The facility shall be required to include a justification for any emissions excluded due to demand growth.

H. Per 567 IAC 33.3(18)"f"(1), the owner or operator shall maintain a record of the information required in Condition 14.G.[Operating Limits] of this permit.

I. Per 567 IAC 33.3(18)"f"(4) and 567 IAC 33.3(18)"f"(5), the owner or operator shall maintain a record containing the information required in Condition 14.H.[Operating Limits] of this permit and that record shall be retained by the owner or operator for a period of ten (10) years after the project is completed.

Authority for Requirement: LCPH ATI 6040 / PTO 6109
LCPH ATI 6041 / PTO 6110

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

<table>
<thead>
<tr>
<th>Table Elevator-9.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EP</strong></td>
</tr>
<tr>
<td>SEP-180</td>
</tr>
<tr>
<td>SEP-181</td>
</tr>
</tbody>
</table>

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

**Opacity Monitoring:**
The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity
shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >0 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes [ ] No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No [ ]

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

Facility O&M required for EP 181. EP 180 is not required to have an O&M plan or CAM.

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

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

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

Authority for Requirement: 567 IAC 22.108(3)
### Table Mill-1. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
<th>CE ID</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-083</td>
<td>EU-83A</td>
<td>Wet Corn Hopper</td>
<td>Corn</td>
<td>60,000 gal/hr</td>
<td>CE-083A</td>
<td>Wet Scrubber</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CE-083B</td>
<td>Caustic Scrubber</td>
</tr>
<tr>
<td>SEP-083</td>
<td>EU-83B</td>
<td>First Grind Tank</td>
<td>Corn</td>
<td>55,000 gal/hr</td>
<td>CE-083A</td>
<td>Wet Scrubber</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CE-083B</td>
<td>Caustic Scrubber</td>
</tr>
<tr>
<td>SEP-083</td>
<td>EU-83C</td>
<td>MR Steepwater Evaporators</td>
<td>Corn</td>
<td>120,000 gal/hr</td>
<td>CE-083A</td>
<td>Wet Scrubber</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CE-083B</td>
<td>Caustic Scrubber</td>
</tr>
<tr>
<td>SEP-083</td>
<td>EU-375</td>
<td>Steep Tank 1E</td>
<td>Corn</td>
<td>156,392.7 gal/hr</td>
<td>CE-083A</td>
<td>Wet Scrubber</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CE-083B</td>
<td>Caustic Scrubber</td>
</tr>
<tr>
<td>SEP-083</td>
<td>EU-376</td>
<td>Steep Tank 2E</td>
<td>Corn</td>
<td>156,392.7 gal/hr</td>
<td>CE-083A</td>
<td>Wet Scrubber</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CE-083B</td>
<td>Caustic Scrubber</td>
</tr>
<tr>
<td>SEP-083</td>
<td>EU-377</td>
<td>Steep Tank 3E</td>
<td>Corn</td>
<td>156,392.7 gal/hr</td>
<td>CE-083A</td>
<td>Wet Scrubber</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CE-083B</td>
<td>Caustic Scrubber</td>
</tr>
<tr>
<td>SEP-083</td>
<td>EU-378</td>
<td>Steep Tank 10E</td>
<td>Corn</td>
<td>156,392.7 gal/hr</td>
<td>CE-083A</td>
<td>Wet Scrubber</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CE-083B</td>
<td>Caustic Scrubber</td>
</tr>
<tr>
<td>SEP-083</td>
<td>EU-379</td>
<td>Steep Tank 11E</td>
<td>Corn</td>
<td>156,392.7 gal/hr</td>
<td>CE-083A</td>
<td>Wet Scrubber</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CE-083B</td>
<td>Caustic Scrubber</td>
</tr>
<tr>
<td>SEP-083</td>
<td>EU-380</td>
<td>Steep Tank 12E</td>
<td>Corn</td>
<td>156,392.7 gal/hr</td>
<td>CE-083A</td>
<td>Wet Scrubber</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CE-083B</td>
<td>Caustic Scrubber</td>
</tr>
<tr>
<td>SEP-083</td>
<td>EU-381</td>
<td>Steep Tank 1F</td>
<td>Corn</td>
<td>156,392.7 gal/hr</td>
<td>CE-083A</td>
<td>Wet Scrubber</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CE-083B</td>
<td>Caustic Scrubber</td>
</tr>
<tr>
<td>SEP-083</td>
<td>EU-382</td>
<td>Steep Tank 2F</td>
<td>Corn</td>
<td>156,392.7 gal/hr</td>
<td>CE-083A</td>
<td>Wet Scrubber</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CE-083B</td>
<td>Caustic Scrubber</td>
</tr>
<tr>
<td>SEP-083</td>
<td>EU-383</td>
<td>Steep Tank 3F</td>
<td>Corn</td>
<td>156,392.7 gal/hr</td>
<td>CE-083A</td>
<td>Wet Scrubber</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CE-083B</td>
<td>Caustic Scrubber</td>
</tr>
<tr>
<td>SEP-083</td>
<td>EU-384</td>
<td>Steep Tank 10F</td>
<td>Corn</td>
<td>156,392.7 gal/hr</td>
<td>CE-083A</td>
<td>Wet Scrubber</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CE-083B</td>
<td>Caustic Scrubber</td>
</tr>
<tr>
<td>SEP-083</td>
<td>EU-385</td>
<td>Steep Tank 11F</td>
<td>Corn</td>
<td>156,392.7 gal/hr</td>
<td>CE-083A</td>
<td>Wet Scrubber</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CE-083B</td>
<td>Caustic Scrubber</td>
</tr>
<tr>
<td>SEP-083</td>
<td>EU-386</td>
<td>Steep Tank 12F</td>
<td>Corn</td>
<td>156,392.7 gal/hr</td>
<td>CE-083A</td>
<td>Wet Scrubber</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CE-083B</td>
<td>Caustic Scrubber</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 Mill-2. Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>Pollutant</th>
<th>Emission Limit(s)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-083</td>
<td>Opacity</td>
<td>20%</td>
<td>LCPH ATI 4828 / PTO 5712</td>
</tr>
<tr>
<td></td>
<td>PM(_{10})</td>
<td>0.20 lb/hr</td>
<td>LCPH ATI 4828 / PTO 5712</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.01 gr/dscf</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PM</td>
<td>0.20 lb/hr</td>
<td>LCPH ATI 4828 / PTO 5712</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.01 gr/dscf</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.1 gr/dscf</td>
<td>567 IAC 23.4(7)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>LCO 10.9(1)&quot;g&quot;</td>
</tr>
<tr>
<td></td>
<td>SO(_{2})</td>
<td>1.19 lb/hr</td>
<td>LCPH ATI 4828 / PTO 5712</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5.19 tpy</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>50 ppmv</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>500 ppmv</td>
<td>567 IAC 23.3(3)&quot;e&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>LCO 10.12(2)</td>
</tr>
<tr>
<td></td>
<td>VOC</td>
<td>0.32 lb/hr</td>
<td>LCPH ATI 4828 / PTO 5712</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.42 tpy</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>20 ppm</td>
<td></td>
</tr>
</tbody>
</table>

**Operational Limits & Requirements**

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

**Control Device:**

A MR pre-scrubber and MR scrubber shall be used to control VOC and SO\(_{2}\) emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in condition 16 [Operating Condition Monitoring and Recordkeeping] shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement:  LCPH ATI 4828 / PTO 5712

**Operating Limits:**

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

A. Maintain the MR pre-scrubber and MR scrubber according to the manufacturer’s specifications and/or good operating practices.

B. Water flow shall be maintained at a minimum of 150 gpm to the MR pre-scrubber (1st pass).

C. Recycle water flow shall be maintained at a minimum of 400 gpm in the MR scrubber (2\(^{nd}\) pass).

D. Fresh makeup water flow to the MR scrubber shall be maintained at a minimum of 34 gpm.

Authority for Requirement:  LCPH ATI 4828 / PTO 5712
Operating Condition Monitoring and Recordkeeping:
All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. Monitor and record the water flow to the MR pre-scrubber on a daily basis.
B. Monitor and record the recycle water flow to the MR scrubber on a daily basis.
C. Monitor and record the fresh makeup water flow to the MR scrubber on a daily basis.
D. Record all maintenance and repair completed on the control devices.

Authority for Requirement: LCPH ATI 4828 / PTO 5712

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

Table Mill-3.

<table>
<thead>
<tr>
<th>EP</th>
<th>LCPH Permit Numbers</th>
<th>Stack Characteristics</th>
<th>Stack Opening (inches, dia.)</th>
<th>Exhaust Temp. (°F)</th>
<th>Exhaust Flow Rate (acfm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-083</td>
<td>ATI 4828/PTO 5712</td>
<td>91 Vertical, unobstructed</td>
<td>18</td>
<td>137</td>
<td>2388</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.

Authority for Requirement: LCPH ATI 4828 / PTO 5712

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

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to
retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

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

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: SEP-201
Process Area: MILL

Table Mill-4. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/ Fuel</th>
<th>Rated Capacity</th>
<th>CE ID</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-201</td>
<td>EU-201A</td>
<td>Heavy Gluten Storage Tank</td>
<td>Corn Gluten</td>
<td>24,000 gal/hr</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>EU-201B</td>
<td>Mill Water Storage Tank</td>
<td>Mill Water</td>
<td>24,000 gal/hr</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>EU-201C</td>
<td>Light Steep Water Storage Tanks</td>
<td>Light Steep Water</td>
<td>96,000 gal/hr</td>
<td>-</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.

Table Mill-5. Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>Pollutant</th>
<th>Emission Limit(s)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-201</td>
<td>SO2</td>
<td>1.35 lb/hr</td>
<td>LCPH ATI 4829 / PTO 6111</td>
</tr>
<tr>
<td></td>
<td></td>
<td>500 ppmv</td>
<td>LCPH ATI 4829 / PTO 6111 LCO 10.12(2)</td>
</tr>
<tr>
<td></td>
<td>VOC</td>
<td>2.63 lb/hr</td>
<td>LCPH ATI 4829 / PTO 6111</td>
</tr>
</tbody>
</table>

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

There are no operating limits or recordkeeping required at this time.

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

Table Mill-6.

<table>
<thead>
<tr>
<th>EP</th>
<th>LCPH Permit Numbers ATI/ PTO</th>
<th>Stack Characteristics</th>
<th>Stack Opening (inches, dia.)</th>
<th>Exhaust Temp. (°F)</th>
<th>Exhaust Flow Rate (acfm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-201</td>
<td>4829 / 6111</td>
<td>98</td>
<td>Vertical, unobstructed</td>
<td>16</td>
<td>125</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.

Stack testing is not required at this time.
Opacity monitoring is not required at this time.

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: SEP-204, SEP-205, SEP-206
Process Area: MILL

Table Mill-7. Emission Unit Description.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
<th>CE ID</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-204</td>
<td>EU-204</td>
<td>Biomass Storage Tank</td>
<td>Biomass</td>
<td>118,332 gallons</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>SEP-205</td>
<td>EU-205</td>
<td>Heavy Steepwater Tank</td>
<td>Heavy Steepwater</td>
<td>118,332 gallons</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>SEP-206</td>
<td>EU-206</td>
<td>Intermediate Steepwater Storage Tank</td>
<td>Steepwater</td>
<td>118,332 gallons</td>
<td>-</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.

Table Mill-8. Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>Pollutant</th>
<th>Emission Limit(s)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-204</td>
<td>SO₂</td>
<td>500 ppmv</td>
<td>ATI 4830 / PTO 6150, 567 IAC 23.3(3)&quot;e&quot;, LCO 10.12(2)</td>
</tr>
<tr>
<td>SEP-204</td>
<td>VOC</td>
<td>0.03 lb/hr</td>
<td>ATI 4830 / PTO 6150</td>
</tr>
<tr>
<td>SEP-205</td>
<td>SO₂</td>
<td>500 ppmv</td>
<td>ATI 4831 / PTO 6151, 567 IAC 23.3(3)&quot;e&quot;, LCO 10.12(2)</td>
</tr>
<tr>
<td>SEP-205</td>
<td>VOC</td>
<td>0.19 lb/hr</td>
<td>ATI 4831 / PTO 6151</td>
</tr>
<tr>
<td>SEP-206</td>
<td>SO₂</td>
<td>500 ppmv</td>
<td>ATI 4832 / PTO 6152, 567 IAC 23.3(3)&quot;e&quot;, LCO 10.12(2)</td>
</tr>
<tr>
<td>SEP-206</td>
<td>VOC</td>
<td>0.19 lb/hr</td>
<td>ATI 4830 / PTO 6152</td>
</tr>
</tbody>
</table>
**Emission Point Characteristics**

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

**Table Mill-9.**

<table>
<thead>
<tr>
<th>EP</th>
<th>LCPH ATI / PTO Numbers</th>
<th>Stack Characteristics</th>
<th>Stack Opening (inches, dia.)</th>
<th>Exhaust Temp. (°F)</th>
<th>Exhaust Flow Rate (acfm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-204</td>
<td>4830 / 6150</td>
<td>96 Vertical, unobstructed</td>
<td>18</td>
<td>154</td>
<td>114</td>
</tr>
<tr>
<td>SEP-205</td>
<td>4831 / 6151</td>
<td>96 Vertical, unobstructed</td>
<td>18</td>
<td>134</td>
<td>43</td>
</tr>
<tr>
<td>SEP-206</td>
<td>4832 / 6152</td>
<td>81 Vertical, unobstructed</td>
<td>16</td>
<td>134</td>
<td>43</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.*

Stack testing is not required at this time.

Opacity monitoring is not required at this time.

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)
Table Mill-10. Emission Unit Description.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
<th>CE ID</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-210</td>
<td>EU-046</td>
<td>Sulfur Burning System</td>
<td>Molten Slurry</td>
<td>10 tons/day</td>
<td>CE-210A</td>
<td>Packed Bed Scrubber</td>
</tr>
<tr>
<td>SEP-210</td>
<td>EU-210</td>
<td>Millhouse SO₂ Scrubber</td>
<td>Corn Slurry</td>
<td>18,750 bu/hr</td>
<td>CE-210A</td>
<td>Packed Bed Scrubber</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 Mill-11. Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>Pollutant</th>
<th>Emission Limit(s)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-210</td>
<td>Opacity</td>
<td>20%</td>
<td>ATI 5829 / PTO 6337</td>
</tr>
<tr>
<td>SEP-210</td>
<td>SO₂</td>
<td>6.11 lb/hr</td>
<td>ATI 5829 / PTO 6337</td>
</tr>
<tr>
<td>SEP-210</td>
<td>VOC</td>
<td>2.54 lb/hr</td>
<td>ATI 5829 / PTO 6337</td>
</tr>
<tr>
<td></td>
<td></td>
<td>500 ppm</td>
<td>567 IAC 23.3(3)&quot;e&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>LCO 10.12(2)</td>
</tr>
</tbody>
</table>

Operational Limits & Requirements

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

Control Device:

A wet scrubber shall be installed to control VOC emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in condition 14 [Operating Limits] shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Operating Limits:

*Operating limits for this emission unit shall be:*

A. The facility-wide grind shall be limited to 450,000 bushels of corn per day based on a 52-week rolling average.

B. The sulfur burner shall be limited to a maximum process rate of 10 tons of sulfur per day.

C. Minimum fresh water flow rate through the packed tower scrubber shall be 240 gallons per minute.

D. The pressure drop across the packed tower scrubber, CE-210A, shall be maintained between 0.5 and 12 inches of water.

E. Minimum water flow rate through the primary absorption tower shall be 300 gallons per minute.
F. Maintain the scrubber and absorption tower according to the manufacturer’s specifications and/or good operating practices.

Authority for Requirement: LCPH ATI 5829 / PTO 6337

**Operating Condition Monitoring and Recordkeeping:**

Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives. Records shall be legible and maintained in an orderly manner. These records shall show the following:

A. Calculate and record the weekly facility grind rate average based on a 52-week rolling average.

B. Pressure drop readings across the packed tower scrubber, CE-210A, shall be recorded on a daily basis while the control equipment is in operation.

C. Monitor and record daily fresh water flow rate for packed tower scrubber.

D. Monitor and record daily process rate for sulfur burner.

E. Monitor and record daily water flow rate for the absorption tower.

F. Record all maintenance and repair completed on the packed tower scrubber and the absorption tower.

*Note: An audible low water flow alarm system for the packed bed scrubber and the absorption tower units can be operated in lieu of daily recording of the water flow rates. However, the individual low water flow alarms must be recorded to demonstrate compliance with the absorption tower’s 300 gallon per minute and the packed bed scrubber’s 240 gallons per minute operating limit.*

Authority for Requirement: LCPH ATI 5829 / PTO 6337

**Emission Point Characteristics**

The emission point shall conform to the specifications listed below.

**Table Mill-12.**

<table>
<thead>
<tr>
<th>EP</th>
<th>LCPH ATI / PTO Numbers</th>
<th>Stack Characteristics</th>
<th>Stack Opening (feet, above ground)</th>
<th>Discharge Style</th>
<th>Exhaust Temp. (°F)</th>
<th>Exhaust Flow Rate (acfm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-210</td>
<td>5829 / 6337</td>
<td></td>
<td>45</td>
<td>Vertical, unobstructed</td>
<td>72</td>
<td>13,913</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.

Stack Testing:
The following stack tests shall be performed:

- Pollutant – Sulfur Dioxide (SO₂)
- 1st Stack Test to be Completed by – within first two years of permit term
- Test Method – Method 6C (40 CFR 60) or approved alternative
- Authority for Requirement – 567 IAC 22.108

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)

Refer to Appendix B, CAM Plans, for the complete compliance assurance monitoring plan.
Emission Point ID Number: SEP 307 - 374  
Process Area: MILL

Table Mill-13. Emission Unit Description.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-307</td>
<td>EU-307</td>
<td>Steep Tank 1A</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-308</td>
<td>EU-308</td>
<td>Steep Tank 2A</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-309</td>
<td>EU-309</td>
<td>Steep Tank 3A</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-310</td>
<td>EU-310</td>
<td>Steep Tank 4A</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-311</td>
<td>EU-311</td>
<td>Steep Tank 5A</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-312</td>
<td>EU-312</td>
<td>Steep Tank 6A</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-313</td>
<td>EU-313</td>
<td>Steep Tank 7A</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-314</td>
<td>EU-314</td>
<td>Steep Tank 8A</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-315</td>
<td>EU-315</td>
<td>Steep Tank 9A</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-316</td>
<td>EU-316</td>
<td>Steep Tank 10A</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-317</td>
<td>EU-317</td>
<td>Steep Tank 11A</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-318</td>
<td>EU-318</td>
<td>Steep Tank 12A</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-319</td>
<td>EU-319</td>
<td>Steep Tank 13A</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-320</td>
<td>EU-320</td>
<td>Steep Tank 14A</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-321</td>
<td>EU-321</td>
<td>Steep Tank 15A</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-322</td>
<td>EU-322</td>
<td>Steep Tank 16A</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-323</td>
<td>EU-323</td>
<td>Steep Tank 17A</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-324</td>
<td>EU-324</td>
<td>Steep Tank 18A</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-325</td>
<td>EU-325</td>
<td>Steep Tank 1B</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-326</td>
<td>EU-326</td>
<td>Steep Tank 2B</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-327</td>
<td>EU-327</td>
<td>Steep Tank 3B</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-328</td>
<td>EU-328</td>
<td>Steep Tank 4B</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-329</td>
<td>EU-329</td>
<td>Steep Tank 5B</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-330</td>
<td>EU-330</td>
<td>Steep Tank 6B</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-331</td>
<td>EU-331</td>
<td>Steep Tank 7B</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-332</td>
<td>EU-332</td>
<td>Steep Tank 8B</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-333</td>
<td>EU-333</td>
<td>Steep Tank 9B</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-334</td>
<td>EU-334</td>
<td>Steep Tank 10B</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-335</td>
<td>EU-335</td>
<td>Steep Tank 11B</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-336</td>
<td>EU-336</td>
<td>Steep Tank 12B</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-337</td>
<td>EU-337</td>
<td>Steep Tank 13B</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-338</td>
<td>EU-338</td>
<td>Steep Tank 14B</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>EP</td>
<td>EU</td>
<td>EU Description</td>
<td>Raw Material/Fuel</td>
<td>Rated Capacity</td>
</tr>
<tr>
<td>-------</td>
<td>------</td>
<td>----------------------</td>
<td>-----------------------</td>
<td>---------------</td>
</tr>
<tr>
<td>SEP-339</td>
<td>EU-339</td>
<td>Steep Tank 15B</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-340</td>
<td>EU-340</td>
<td>Steep Tank 16B</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-341</td>
<td>EU-341</td>
<td>Steep Tank 17B</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-342</td>
<td>EU-342</td>
<td>Steep Tank 18B</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-343</td>
<td>EU-343</td>
<td>Steep Tank 1C</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-344</td>
<td>EU-344</td>
<td>Steep Tank 2C</td>
<td>Corn and Steep Water</td>
<td>52,131 gal/hr</td>
</tr>
<tr>
<td>SEP-345</td>
<td>EU-345</td>
<td>Steep Tank 3C</td>
<td>Corn and Steep Water</td>
<td>52,131 gal/hr</td>
</tr>
<tr>
<td>SEP-346</td>
<td>EU-346</td>
<td>Steep Tank 4C</td>
<td>Corn and Steep Water</td>
<td>52,131 gal/hr</td>
</tr>
<tr>
<td>SEP-347</td>
<td>EU-347</td>
<td>Steep Tank 5C</td>
<td>Corn and Steep Water</td>
<td>52,131 gal/hr</td>
</tr>
<tr>
<td>SEP-348</td>
<td>EU-348</td>
<td>Steep Tank 6C</td>
<td>Corn and Steep Water</td>
<td>52,131 gal/hr</td>
</tr>
<tr>
<td>SEP-349</td>
<td>EU-349</td>
<td>Steep Tank 7C</td>
<td>Corn and Steep Water</td>
<td>52,131 gal/hr</td>
</tr>
<tr>
<td>SEP-350</td>
<td>EU-350</td>
<td>Steep Tank 8C</td>
<td>Corn and Steep Water</td>
<td>52,131 gal/hr</td>
</tr>
<tr>
<td>SEP-351</td>
<td>EU-351</td>
<td>Steep Tank 9C</td>
<td>Corn and Steep Water</td>
<td>52,131 gal/hr</td>
</tr>
<tr>
<td>SEP-352</td>
<td>EU-352</td>
<td>Steep Tank 10C</td>
<td>Corn and Steep Water</td>
<td>52,131 gal/hr</td>
</tr>
<tr>
<td>SEP-353</td>
<td>EU-353</td>
<td>Steep Tank 11C</td>
<td>Corn and Steep Water</td>
<td>52,131 gal/hr</td>
</tr>
<tr>
<td>SEP-354</td>
<td>EU-354</td>
<td>Steep Tank 12C</td>
<td>Corn and Steep Water</td>
<td>52,131 gal/hr</td>
</tr>
<tr>
<td>SEP-355</td>
<td>EU-355</td>
<td>Steep Tank 13C</td>
<td>Corn and Steep Water</td>
<td>52,131 gal/hr</td>
</tr>
<tr>
<td>SEP-356</td>
<td>EU-356</td>
<td>Steep Tank 14C</td>
<td>Corn and Steep Water</td>
<td>52,131 gal/hr</td>
</tr>
<tr>
<td>SEP-357</td>
<td>EU-357</td>
<td>Steep Tank 15C</td>
<td>Corn and Steep Water</td>
<td>52,131 gal/hr</td>
</tr>
<tr>
<td>SEP-358</td>
<td>EU-358</td>
<td>Steep Tank 16C</td>
<td>Corn and Steep Water</td>
<td>52,131 gal/hr</td>
</tr>
<tr>
<td>SEP-359</td>
<td>EU-359</td>
<td>Steep Tank 17C</td>
<td>Corn and Steep Water</td>
<td>52,131 gal/hr</td>
</tr>
<tr>
<td>SEP-360</td>
<td>EU-360</td>
<td>Steep Tank 18C</td>
<td>Corn and Steep Water</td>
<td>52,131 gal/hr</td>
</tr>
<tr>
<td>SEP-361</td>
<td>EU-361</td>
<td>Steep Tank 1D</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-362</td>
<td>EU-362</td>
<td>Steep Tank 2D</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-363</td>
<td>EU-363</td>
<td>Steep Tank 3D</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-364</td>
<td>EU-364</td>
<td>Steep Tank 4D</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-365</td>
<td>EU-365</td>
<td>Steep Tank 5D</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-366</td>
<td>EU-366</td>
<td>Steep Tank 6D</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-367</td>
<td>EU-367</td>
<td>Steep Tank 7D</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-368</td>
<td>EU-368</td>
<td>Steep Tank 8D</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-369</td>
<td>EU-369</td>
<td>Steep Tank 9D</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-370</td>
<td>EU-370</td>
<td>Steep Tank 10D</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-371</td>
<td>EU-371</td>
<td>Steep Tank 11D</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-372</td>
<td>EU-372</td>
<td>Steep Tank 12D</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/hr</td>
</tr>
<tr>
<td>SEP-373</td>
<td>EU-373</td>
<td>Steep Tank 13D</td>
<td>Corn and Steep Water</td>
<td>71,680 gal/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.

<table>
<thead>
<tr>
<th>Table Mill-14. Emission Limits.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EP</strong></td>
</tr>
<tr>
<td>SEP-307</td>
</tr>
<tr>
<td>SEP-307</td>
</tr>
<tr>
<td>SEP-308</td>
</tr>
<tr>
<td>SEP-308</td>
</tr>
<tr>
<td>SEP-309</td>
</tr>
<tr>
<td>SEP-309</td>
</tr>
<tr>
<td>SEP-310</td>
</tr>
<tr>
<td>SEP-310</td>
</tr>
<tr>
<td>SEP-311</td>
</tr>
<tr>
<td>SEP-311</td>
</tr>
<tr>
<td>SEP-312</td>
</tr>
<tr>
<td>SEP-312</td>
</tr>
<tr>
<td>SEP-313</td>
</tr>
<tr>
<td>SEP-313</td>
</tr>
<tr>
<td>SEP-314</td>
</tr>
<tr>
<td>SEP-314</td>
</tr>
<tr>
<td>SEP-315</td>
</tr>
<tr>
<td>SEP-315</td>
</tr>
<tr>
<td>SEP-316</td>
</tr>
<tr>
<td>SEP-316</td>
</tr>
<tr>
<td>SEP-317</td>
</tr>
<tr>
<td>SEP-317</td>
</tr>
<tr>
<td>EP</td>
</tr>
<tr>
<td>-------</td>
</tr>
<tr>
<td>SEP-318</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-319</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-320</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-321</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-322</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-323</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-324</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-325</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-326</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-327</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-328</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-329</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-330</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-331</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-332</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>EP</td>
</tr>
<tr>
<td>-------</td>
</tr>
<tr>
<td>SEP-333</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-334</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-335</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-336</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-337</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-338</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-339</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-340</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-341</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-342</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-343</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-344</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-345</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-346</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-347</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>EP</td>
</tr>
<tr>
<td>--------</td>
</tr>
<tr>
<td>SEP-348</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-349</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-350</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-351</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-352</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-353</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-354</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-355</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-356</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-357</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-358</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-359</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-360</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-361</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-362</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>EP</td>
</tr>
<tr>
<td>-------</td>
</tr>
<tr>
<td>SEP-363</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-364</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-365</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-366</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-367</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-368</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-369</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-370</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-371</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-372</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-373</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>SEP-374</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
**Emission Point Characteristics**  
*The emission point shall conform to the specifications listed below.*

**Table Mill-15.**

<table>
<thead>
<tr>
<th>EP</th>
<th>LCPH ATI / PTO Numbers</th>
<th>Stack Characteristics</th>
<th>Stack Opening (inches, dia.)</th>
<th>Exhaust Temp. (°F)</th>
<th>Exhaust Flow Rate (acfm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-307–343</td>
<td>ATI 5575–5611 / PTO 5812–5848</td>
<td>56 Vertical 20 x 20</td>
<td>125</td>
<td>54</td>
<td></td>
</tr>
<tr>
<td>SEP-344–351</td>
<td>ATI 5612–5619 / PTO 5849–5856</td>
<td>52 Vertical 14 x 18</td>
<td>125</td>
<td>54</td>
<td></td>
</tr>
<tr>
<td>SEP-352</td>
<td>ATI 5620 / PTO 5857</td>
<td>56 Vertical 20 x 20</td>
<td>125</td>
<td>54</td>
<td></td>
</tr>
<tr>
<td>SEP-353–360</td>
<td>ATI 5621–5628 / PTO 5865–5865</td>
<td>52 Vertical 14 x 18</td>
<td>125</td>
<td>54</td>
<td></td>
</tr>
<tr>
<td>SEP-361–374</td>
<td>ATI 5629–5642 / PTO 5866–5879</td>
<td>56 Vertical 20 x 20</td>
<td>125</td>
<td>54</td>
<td></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.*

Stack testing is not required at this time.

Opacity monitoring is not required at this time.

**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: SEP-011, SEP-018**  
**Process Area: 60% GLUTEN MEAL**

**Table Gluten Meal-1. Emission Unit Description**

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
<th>CE</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-011</td>
<td>EU-11A</td>
<td>Gluten Meal Dryer #1 Bypass</td>
<td>Gluten Meal</td>
<td>7.7 ton/hr</td>
<td>CE-011</td>
<td>Multivane Scrubber</td>
</tr>
<tr>
<td>SEP-011</td>
<td>EU-11B</td>
<td>Gluten Meal Dryer #1 Bypass – Natural Gas</td>
<td>Natural Gas</td>
<td>0.08 MMCF/hr</td>
<td>CE-011</td>
<td>Multivane Scrubber</td>
</tr>
<tr>
<td>SEP-018</td>
<td>EU-18A</td>
<td>Gluten Meal Dryer #2 Bypass</td>
<td>Gluten Meal</td>
<td>15.1 ton/hr</td>
<td>CE-018</td>
<td>Multivane Scrubber</td>
</tr>
<tr>
<td>SEP-018</td>
<td>EU-18B</td>
<td>Gluten Meal Dryer #2 Bypass – Natural Gas</td>
<td>Natural Gas</td>
<td>0.13 MMCF/hr</td>
<td>CE-018</td>
<td>Multivane Scrubber</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: Particulate Matter**

**Emission Limit(s):** 0.1 gr/dscf  
**Authority for Requirement:** 567 IAC 23.4(7)  
**LCO 10.9(1)"g"**

**Pollutant: Sulfur Dioxide (SO₂)**

**Emission Limit(s):** 500 ppmv  
**Authority for Requirement:** 567 IAC 23.3(3)"e"  
**LCO 10.12(2)**

**Operational Limits & Requirements**

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

**Control Device:**

A multivane scrubber shall be used to control particulate matter emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in condition 16 [Operating Condition Monitoring and Recordkeeping] shall be installed, maintained and operating during the operation of the emission unit and control device at all times.
Operating Limits:
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

A. This source shall only exhaust air from the dryer chambers prior to the dryer igniters being activated.

B. No combustion gases and no feed shall be added to the dryer while the dryer exhaust is venting through the bypass.

C. The control equipment on this unit shall be maintained and operated according to the manufacturer’s specification and good operating practices.

Operating Condition Monitoring and Recordkeeping:
All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives. The following items shall be recorded:

A. Record the date and duration of each purge exhausted through the bypass stack.

B. All maintenance and repair completed on the control device.

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

Table Gluten Meal-2.

<table>
<thead>
<tr>
<th>EP</th>
<th>LCPH ATI / PTO Numbers</th>
<th>Stack Characteristics</th>
<th>Stack Opening (inches, dia.)</th>
<th>Exhaust Temp. (°F)</th>
<th>Exhaust Flow Rate (acfm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-011</td>
<td>5346 / 5220</td>
<td>48</td>
<td>Vertical, unobstructed</td>
<td>24</td>
<td>70</td>
</tr>
<tr>
<td>SEP-018</td>
<td>5347 / 5221</td>
<td>49</td>
<td>Vertical, unobstructed</td>
<td>24</td>
<td>70</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.*

Stack testing is not required at this time.

Opacity monitoring is not required at this time.

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:** SEP-013, SEP-050, SEP-051  
**Process Area:** 60% GLUTEN MEAL

### Table Gluten Meal-3. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/ Fuel</th>
<th>Rated Capacity</th>
<th>CE ID</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-013</td>
<td>EU-13</td>
<td>60% Gluten Meal Recycle #3</td>
<td>Gluten Meal</td>
<td>3.5 ton/hr</td>
<td>CE-013</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-050</td>
<td>EU-50</td>
<td>60% Gluten Meal Recycle #2</td>
<td>Gluten Meal</td>
<td>3.5 ton/hr</td>
<td>CE-050</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-051</td>
<td>EU-51</td>
<td>60% Gluten Meal Recycle #1</td>
<td>Gluten Meal</td>
<td>3.5 ton/hr</td>
<td>CE-051</td>
<td>Baghouse</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 Gluten Meal-4. Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Pollutant</th>
<th>Emission Limit(s)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-013</td>
<td>EU-13</td>
<td>Opacity</td>
<td>20%</td>
<td>ATI 5808 / PTO 5768</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LCO 10.7</td>
</tr>
<tr>
<td>SEP-050</td>
<td>EU-50</td>
<td>PM10</td>
<td>0.11 lb/hr</td>
<td>ATI 5808 / PTO 5768</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PM</td>
<td>0.11 lb/hr</td>
<td>ATI 5809 / PTO 5769</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PM</td>
<td>0.1 gr/scf</td>
<td>567 IAC 23.4(7)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LCO 10.9(1)&quot;g&quot;</td>
</tr>
<tr>
<td>SEP-051</td>
<td>EU-51</td>
<td>Opacity</td>
<td>20%</td>
<td>ATI 4826 / PTO 5331</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PM10</td>
<td>0.1 lb/hr</td>
<td>ATI 4826 / PTO 5331</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PM</td>
<td>0.1 lb/hr</td>
<td>ATI 4826 / PTO 5331</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PM</td>
<td>0.1 gr/dscf</td>
<td>567 IAC 23.4(7)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LCO 10.9(1)&quot;g&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>VOC</td>
<td>0.16 lb/hr</td>
<td>ATI 5809 / PTO 5769</td>
</tr>
<tr>
<td></td>
<td></td>
<td>VOC</td>
<td>0.31 lb/hr</td>
<td>ATI 4826 / PTO 5331</td>
</tr>
</tbody>
</table>
Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Control Device:
A baghouse shall be used to control particulate matter emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement:  LCPH ATI 5808 / PTO 5768
                            LCPH ATI 5809 / PTO 5769
                            LCPH ATI 4826 / PTO 5331

Operating Limits:
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

A. The facility-wide grind shall be limited to 450,000 bushels of corn per day based on a 52-week rolling average.

Authority for Requirement:  LCPH ATI 5809 / PTO 5769
                            LCPH ATI 4826 / PTO 5331

A. The [control equipment] on this unit shall be maintained according to the manufacturer's specifications and/or good operating practices.

B. The pressure differential measured across the baghouse shall be greater than one-half (0.5) inch of water column and less than six (6) inches of water column.

Authority for Requirement:  LCPH ATI 5808 / PTO 5768
                            LCPH ATI 5809 / PTO 5769
                            LCPH ATI 4826 / PTO 5331

Operating Condition Monitoring and Recordkeeping:
If not specified elsewhere, 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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. Monitor and record the pressure differential across the baghouse on a weekly basis.

B. Monitor and record “no visible emissions” observations on a weekly basis and any action resulting from the observation.

C. Record all maintenance and repair completed on the control device.

Authority for Requirement:  LCPH ATI 5808 / PTO 5768
                            LCPH ATI 5809 / PTO 5769
                            LCPH ATI 4826 / PTO 5331

Record the weekly average facility grind rate.
Authority for Requirement:   LCPH ATI 5809 / PTO 5769
LCPH ATI 4826 / PTO 5331

**Emission Point Characteristics**

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

**Table Gluten Meal-5.**

<table>
<thead>
<tr>
<th>EP</th>
<th>LCPH ATI / PTO Numbers</th>
<th>Stack Characteristics</th>
<th>Stack Opening (inches, dia.)</th>
<th>Exhaust Temp. (°F)</th>
<th>Exhaust Flow Rate (acfm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-013</td>
<td>5808 / 5768</td>
<td>16 Vertical, unobstructed</td>
<td>8</td>
<td>190</td>
<td>2,486</td>
</tr>
<tr>
<td>SEP-050</td>
<td>5809 / 5769</td>
<td>16 Vertical, unobstructed</td>
<td>8</td>
<td>190</td>
<td>1,466</td>
</tr>
<tr>
<td>SEP-051</td>
<td>4826 / 53310</td>
<td>55 Vertical, unobstructed</td>
<td>8</td>
<td>143</td>
<td>2,486</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.*

Stack testing is not required at this time.

**Opacity Monitoring:**

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)
Agency Approved Operation & Maintenance Plan Required?  Yes ☐ No ✗

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

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

1 Required for EP 013 only, EP 050 and 051 do not require an O&M plan.

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

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

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

Authority for Requirement:  567 IAC 22.108(3)
### Emission Point ID Number: SEP-190, SEP-191, SEP-192

**Process Area: 60% GLUTEN MEAL**

#### Table Gluten Meal-6. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
<th>CE ID</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-190</td>
<td>EU-190</td>
<td>RTO #1</td>
<td>Gluten Meal</td>
<td></td>
<td>CE-190</td>
<td>RTO #1</td>
</tr>
<tr>
<td>SEP-190</td>
<td>EU-190</td>
<td>RTO #1 – Natural Gas</td>
<td>Natural Gas</td>
<td>0.011 MMCF/hr</td>
<td>CE-190</td>
<td>RTO #1</td>
</tr>
<tr>
<td>SEP-191</td>
<td>EU-191A</td>
<td>RTO #2</td>
<td>Gluten Meal</td>
<td></td>
<td>CE-191A</td>
<td>RTO #2</td>
</tr>
<tr>
<td>SEP-191</td>
<td>EU-191A</td>
<td>RTO #2 – Natural Gas</td>
<td>Natural Gas</td>
<td>0.011 MMCF/hr</td>
<td>CE-191A</td>
<td>RTO #2</td>
</tr>
<tr>
<td>SEP-191</td>
<td>EU-191B</td>
<td>RTO #3</td>
<td>Gluten Meal</td>
<td></td>
<td>CE-191B</td>
<td>RTO #3</td>
</tr>
<tr>
<td>SEP-191</td>
<td>EU-191B</td>
<td>RTO #3 – Natural Gas</td>
<td>Natural Gas</td>
<td>0.011 MMCF/hr</td>
<td>CE-191B</td>
<td>RTO #3</td>
</tr>
<tr>
<td>SEP-192</td>
<td>EU-192A</td>
<td>RTO #4</td>
<td>Gluten Meal</td>
<td></td>
<td>CE-192A</td>
<td>RTO #4</td>
</tr>
<tr>
<td>SEP-192</td>
<td>EU-192A</td>
<td>RTO #4 – Natural Gas</td>
<td>Natural Gas</td>
<td>0.011 MMCF/hr</td>
<td>CE-192A</td>
<td>RTO #4</td>
</tr>
<tr>
<td>SEP-192</td>
<td>EU-192B</td>
<td>RTO #5</td>
<td>Gluten Meal</td>
<td></td>
<td>CE-192B</td>
<td>RTO #5</td>
</tr>
<tr>
<td>SEP-192</td>
<td>EU-192B</td>
<td>RTO #5 – Natural Gas</td>
<td>Natural Gas</td>
<td>0.011 MMCF/hr</td>
<td>CE-192B</td>
<td>RTO #5</td>
</tr>
<tr>
<td>SEP-190, SEP-191, SEP-192</td>
<td>EU-11A</td>
<td>Gluten Meal Dryer #1</td>
<td>Gluten Meal</td>
<td>7.7 ton/hr</td>
<td>CE-011, CE-025</td>
<td>Multivane Scrubber, Entoletter Scrubber</td>
</tr>
<tr>
<td>SEP-190, SEP-191, SEP-192</td>
<td>EU-11B</td>
<td>Gluten Meal Dryer #1 – Natural Gas</td>
<td>Natural Gas</td>
<td>0.08 MMCF/hr</td>
<td>CE-011, CE-025</td>
<td>Multivane Scrubber, Entoletter Scrubber</td>
</tr>
<tr>
<td>SEP-190, SEP-191, SEP-192</td>
<td>EU-18A</td>
<td>Gluten Meal Dryer #2</td>
<td>Gluten Meal</td>
<td>15.1 ton/hr</td>
<td>CE-018, CE-005B</td>
<td>Multivane Scrubber, #2 Packed Tower Scrubber</td>
</tr>
<tr>
<td>SEP-190, SEP-191, SEP-192</td>
<td>EU-18B</td>
<td>Gluten Meal Dryer #2 – Natural Gas</td>
<td>Natural Gas</td>
<td>0.13 MMCF/hr</td>
<td>CE-018, CE-005B</td>
<td>Multivane Scrubber, #2 Packed Tower Scrubber</td>
</tr>
<tr>
<td>SEP-190, SEP-191, SEP-192</td>
<td>EU-19A</td>
<td>Gluten Feed Dryer #1</td>
<td>Gluten Meal</td>
<td>15.75 ton/hr</td>
<td>CE-019, CE-025</td>
<td>Multivane Scrubber, Entoletter Scrubber</td>
</tr>
<tr>
<td>EP</td>
<td>EU</td>
<td>EU Description</td>
<td>Raw Material/ Fuel</td>
<td>Rated Capacity</td>
<td>CE ID</td>
<td>CE Description</td>
</tr>
<tr>
<td>--------------</td>
<td>-----------</td>
<td>----------------------------</td>
<td>------------------------</td>
<td>----------------</td>
<td>--------------</td>
<td>-----------------------------------------</td>
</tr>
<tr>
<td>SEP-190, SEP-191, SEP-192</td>
<td>EU-19B</td>
<td>Gluten Feed Dryer #1 – Natural Gas</td>
<td>Natural Gas</td>
<td>0.08 MMCF/hr</td>
<td>CE-019, CE-025</td>
<td>Multivane Scrubber, Entoletter Scrubber</td>
</tr>
<tr>
<td>SEP-190, SEP-191, SEP-192</td>
<td>EU-30A</td>
<td>Gluten Feed Dryer #2</td>
<td>Gluten Meal</td>
<td>15.75 ton/hr</td>
<td>CE-030, CE-025</td>
<td>Multivane Scrubber, Entoletter Scrubber</td>
</tr>
<tr>
<td>SEP-190, SEP-191, SEP-192</td>
<td>EU-30B</td>
<td>Gluten Feed Dryer #2 – Natural Gas</td>
<td>Natural Gas</td>
<td>0.08 MMCF/hr</td>
<td>CE-030, CE-025</td>
<td>Multivane Scrubber, Entoletter Scrubber</td>
</tr>
<tr>
<td>SEP-190, SEP-191, SEP-192</td>
<td>EU-43A</td>
<td>Fiber Feed Dryer #3</td>
<td>Fiber Feed</td>
<td>20 ton/hr</td>
<td>CE-043, CE-005B</td>
<td>Ducon Scrubber, #2 Packed Tower Scrubber</td>
</tr>
<tr>
<td>SEP-190, SEP-191, SEP-192</td>
<td>EU-43B</td>
<td>Fiber Feed Dryer #3 – Natural Gas</td>
<td>Natural Gas</td>
<td>0.08 MMCF/hr</td>
<td>CE-043, CE-005B</td>
<td>Ducon Scrubber, #2 Packed Tower Scrubber</td>
</tr>
<tr>
<td>SEP-190, SEP-191, SEP-192</td>
<td>EU-005CA   (G54A)</td>
<td>Fiber Feed Dryer #4</td>
<td>Fiber Feed</td>
<td>45 ton/hr</td>
<td>CE-005A, CE-005C</td>
<td>#1 Packed Tower Scrubber, Ducon Scrubber</td>
</tr>
<tr>
<td>SEP-190, SEP-191, SEP-192</td>
<td>EU-005CB   (G54B)</td>
<td>Fiber Feed Dryer #4 – Natural Gas</td>
<td>Natural Gas</td>
<td>0.19 MMCF/hr</td>
<td>CE-005A, CE-005C</td>
<td>#1 Packed Tower Scrubber, Ducon Scrubber</td>
</tr>
<tr>
<td>SEP-190, SEP-191, SEP-192</td>
<td>EU-005DA   (G55A)</td>
<td>Fiber Feed Dryer #5</td>
<td>Fiber Feed</td>
<td>45 ton/hr</td>
<td>CE-005A, CE-005D</td>
<td>#1 Packed Tower Scrubber, Ducon Scrubber</td>
</tr>
<tr>
<td>SEP-190, SEP-191, SEP-192</td>
<td>EU-005DB   (G55B)</td>
<td>Fiber Feed Dryer #5 – Natural Gas</td>
<td>Natural Gas</td>
<td>0.19 MMCF/hr</td>
<td>CE-005A, CE-005D</td>
<td>#1 Packed Tower Scrubber, Ducon Scrubber</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 Gluten Meal-7. Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Pollutant</th>
<th>Emission Limit(s)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-190</td>
<td>EU-190</td>
<td>Opacity</td>
<td>No Visible Emissions(^2)</td>
<td>ATI 4900 / PTO 5783 LCO 10.5(3)(^{“b”})</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PM(_{10})(^4)</td>
<td>3.00 lb/hr(^1)</td>
<td>ATI 4900 / PTO 5783</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PM(^4)</td>
<td>3.00 lb/hr</td>
<td>ATI 4900 / PTO 5783</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0.1 gr/scf</td>
<td>ATI 4900 / PTO 5783 LCO 10.9(1)“g”</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SO(_2)</td>
<td>7.30 lb/hr(^1)</td>
<td>ATI 4900 / PTO 5783</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NO(_x)</td>
<td>13.78 lb/hr(^{1,3})</td>
<td>ATI 4900 / PTO 5783</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>27.55 lb/hr(^{1,3})</td>
<td>ATI 4900 / PTO 5783</td>
</tr>
<tr>
<td></td>
<td></td>
<td>VOC(^4)</td>
<td>≤ 10 ppm (as propane)</td>
<td>ATI 4900 / PTO 5783</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CO(^4)</td>
<td>≤ 100 ppm</td>
<td>ATI 4900 / PTO 5783</td>
</tr>
<tr>
<td>SEP-191</td>
<td>EU-191</td>
<td>Opacity</td>
<td>No Visible Emissions(^2)</td>
<td>ATI 4901 / PTO 5784 LCO 10.5(3)“b”</td>
</tr>
<tr>
<td>SEP-192</td>
<td>EU-192</td>
<td>PM(_{10})(^4)</td>
<td>6.01 lb/hr(^1)</td>
<td>ATI 4901 / PTO 5784 LCO 10.5(3)“b”</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PM(^4)</td>
<td>6.01 lb/hr(^1)</td>
<td>ATI 4901 / PTO 5784 LCO 10.5(3)“b”</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0.1 gr/scf</td>
<td>ATI 4901 / PTO 5784 LCO 10.5(3)“b”</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SO(_2)</td>
<td>14.61 lb/hr(^1)</td>
<td>ATI 4901 / PTO 5784</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NO(_x)</td>
<td>27.55 lb/hr(^{1,3})</td>
<td>ATI 4901 / PTO 5784</td>
</tr>
<tr>
<td></td>
<td></td>
<td>VOC(^4)</td>
<td>≤ 10 ppm (as propane)</td>
<td>ATI 4901 / PTO 5784</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CO(^4)</td>
<td>≤ 100 ppm</td>
<td>ATI 4901 / PTO 5784</td>
</tr>
</tbody>
</table>

1 Emission rate used to demonstrate no exceedance of the National Ambient Air Quality Standards (NAAQS).
2 Visible emissions shall be observed on a weekly basis to ensure none occur when the emission unit on this emission point is at or near full capacity. If visible emissions are observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake visible emissions readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where
weather permits. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

3 EP190 shall not exceed 13.78 lb/hr when RTO #1 is the only unit operating. The combined limit for all three EPs (190, 191 and 192) is 27.55 lb/hr.

4 All emission limitations (including operating parameter ranges and limits) apply at all times when the process equipment is operating, except, in the case of process equipment or pollution control systems, during previously planned startup and shutdown periods (including planned maintenance periods), and malfunctions as defined in 40 CFR Part 63. These startup and shutdown periods shall not exceed the minimum amount of time necessary for these events, and during these events, ADM shall minimize emissions to the extent practicable. To the extent practicable, startup and shutdown of pollution control systems will be performed during times when process equipment is also shut down. Also, ADM shall, to the extent practicable, control emissions during a malfunction event in a manner consistent with good air pollution control practice for minimizing emissions. In addition, for dryers controlled by RTOs not designed for on-line regeneration (i.e., bake-out) and that are not preceded by a WESP or equivalent device(s), the emission limitations do not apply to periods of off-line RTO regeneration not to exceed 50 dryer operating hours per calendar year and individual off-line RTO regeneration periods not to exceed 12 dryer operating hours. For RTOs servicing more than one dryer, a dryer operating hour is any hour in which one or more of the dryers is on-line. Off-line RTO regeneration while all associated dryers are shut down is not included in these operating limitations. Also, off-line RTO regeneration periods that can be completed during unrelated shutdown, or malfunction periods (i.e., periods not related to the need to perform an off-line RTO regeneration) are not included in these limitations (i.e., ADM may perform “preventative” off-line RTO regenerations during periods when the RTO is off-line for other reasons such as when the RTO is off-line due to maintenance or malfunction of upstream PM control equipment which requires bypass of the RTO).

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

Control Device:
The control devices listed below shall be installed to control emissions. All control equipment shall be maintained properly and operated at all times the air pollution source is in operation unless specified otherwise in this permit. All appropriate probes, monitors and gauges needed to measure the parameters outlined in condition 16 shall be installed, maintained and operating during the operation of the emission unit and control device at all times. The wet electrostatic precipitators #1 (CE-190B), #2 (CE-191C) and #3 (CE-191D), #4 (CE-192C) and #5 (CE-192D) are installed to extend the life of the RTOs and are not required to operate as a condition of this permit.
Table Gluten Meal-8.

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>CE</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>005A, 005CA, 005CB, 005DA, 005DB</td>
<td>CE-005A</td>
<td>#1 Packed Tower Scrubber</td>
</tr>
<tr>
<td>018, 043</td>
<td>CE-005B</td>
<td>#2 Packed Tower Scrubber</td>
</tr>
<tr>
<td>005CA, 005CB</td>
<td>CE-005C</td>
<td>Ducon Scrubber</td>
</tr>
<tr>
<td>005DA, 005DB</td>
<td>CE-005D</td>
<td>Ducon Scrubber</td>
</tr>
<tr>
<td>011A, 011B</td>
<td>CE-011</td>
<td>Ducon Scrubber</td>
</tr>
<tr>
<td>018A, 018B</td>
<td>CE-018</td>
<td>Ducon Scrubber</td>
</tr>
<tr>
<td>019A, 019B</td>
<td>CE-019</td>
<td>Ducon Scrubber</td>
</tr>
<tr>
<td>030A, 030B</td>
<td>CE-030</td>
<td>Ducon Scrubber</td>
</tr>
<tr>
<td>043A, 043B</td>
<td>CE-043</td>
<td>Ducon Scrubber</td>
</tr>
</tbody>
</table>

Operating Limits:
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

**Dryers**

A. Each gluten and fiber feed dryer (EU-011A, EU018A, EU-019A, EU-030A, EU-043A, EU-005CA, EU-005DA) outlet temperature shall operate $\leq 391\,\text{°F}$ based upon an 8-hour rolling average.

B. Each gluten and fiber feed dryer (EU-011A, EU018A, EU-019A, EU-030A, EU-043A, EU-005CA, EU-005DA) inlet temperature shall operate $\leq 1265\,\text{°F}$ based upon an 8-hour rolling average.

**Scrubbers**

C. The Packed Tower Scrubbers #1 & #2 (CE-005A and CE-005B), Ducon Scrubbers (CE-005C, CE-005D, CE-018, CE-019, CE-030, CE-043), Entoleter Centrifired Super Scrubber (CE-025), and Ducon Scrubber (CE-011) shall be operated at all times the equipment each device controls is in operation.

D. The recirculation water flow rate to each Packed Tower Scrubber (CE-005A and CE-005B) shall be maintained $\geq 5340 \, \text{gpm}$.

E. The differential pressure across each Packed Tower Scrubber (CE-005A and CE-005B) shall be maintained between 1" to 14" w.c.

F. The scrubbing liquor pH to each packed tower scrubber (CE-005A and CE-005B) shall be maintained $\geq 5.4$.

G. The Entoleter Super Scrubber (CE-025) make-up water flow rate shall be maintained $\geq 115 \, \text{gpm}$.
H. The differential pressure across the Entoleter Super Scrubber (CE-025) shall be maintained between 1" to 10" w.c.

I. The scrubbing liquor pH to the Entoleter Super Scrubber (CE-025) shall be maintained ≥ 8.0.

**Regenerative Thermal Oxidizer (RTO)**

J. The one-hour average combustion temperature of the RTO (CE-190, 191A, 191B, 192A, and 192B) shall be maintained ≥ 1550° F.

K. RTO (CE-190, 191A, 191B, 192A, and 192B) shall only combust natural gas.

L. As an approved alternate operating scenario, RTOs CE-190, CE-191A, CE-191B, CE-192A, or CE-192B may operate during periods when CE-190, CE-191A, CE-191B, CE-192A, or CE-192B is not operating provided that sufficient RTO capacity is maintained as defined by the minimum temperature requirements specified in condition J. All conditions specified in this permit applicable to CE-190, 191A, CE-191B, CE-192A and CE-192B are applicable to CE-190, CE-191A, CE-191B, CE-192A and CE-192B during such periods of operation.

M. RTO (CE-190, CE-191A, CE-191B, CE-192A, or CE-192B,) shall be equipped with a thermocouple or equivalent device capable of continuously monitoring the combustion chamber temperature of the RTO. The thermocouple or equivalent device shall monitor temperature on a continuous basis, with the one-hour average temperature recorded every hour. The thermocouple or equivalent device shall be installed, operated, calibrated, and maintained according to the manufacturer’s specifications.

**General Operating Limits**

N. Routine observations conducted at least once each week during daylight hours of scrubbers and RTOs shall be conducted to determine whether there are visible emissions from the stack, leaks, atypical operating parameters (e.g. pressure differential, temperature) or other indications that may necessitate corrective action. Corrective action shall be taken immediately if necessary.

O. All control equipment on the emission units shall be maintained according to the manufacturer’s specifications and good operating practices.

P. The facility shall monitor the stack for opacity on a weekly basis during a period when the emission unit on this emission point is at or near full capacity and record the reading. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

Q. The ADM Corn Processing Wet Mill shall not grind more than 450,000 bushels of corn per day based on a 52-week rolling average.

Authority for Requirement:  
LCPH ATI 4900 / PTO 5783  
LCPH ATI 4901 / PTO 5784  
LCPH ATI 4902 / PTO 5785
Operating Condition Monitoring and Recordkeeping:
All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

Dryers
A. Record the inlet temperature of each gluten and fiber feed dryer (EU-011A, EU018A, EU-019A, EU-030A, EU-043A, EU-005CA, EU-005DA) based upon an 8-hr rolling average.
B. Record the outlet temperature of each gluten and fiber feed dryer (EU-011A, EU018A, EU-019A, EU-030A, EU-043A, EU-005CA, EU-005DA) based upon an 8-hr rolling average.

Scrubbers
C. Record the recirculation water flow rate to Packed Tower Scrubbers #1 and #2 (CE-005A and CE-005B) on a daily basis.
D. Record the differential pressure across each Packed Tower Scrubber (CE-005A and CE-005B) on a daily basis.
E. Record the scrubbing liquor pH to each Packed Tower Scrubber (CE-005A and CE-005B) on a daily basis.
F. Record the make-up flow rate to the Entoleter Super Scrubber (CE-025) on a daily basis.
G. Record the differential pressure across the Entoleter Super Scrubber (CE-025) on a daily basis.
H. Record the scrubbing liquor pH to the Entoleter Super Scrubber (CE-025).

RTOs
I. Record the RTO (CE-190, 191A, 191B, 192A, and 192B) combustion chamber temperature (monitored as a one-hour average).
J. Record pressure drop across each RTO (CE-190, 191A, 191B, 192A, and 192B) on a daily basis while the control equipment is in operation.
K. Record the date and dryer operating hours during periods of off-line RTO regeneration.

General Recordkeeping
L. Record the results of the weekly routine maintenance checks of the scrubbers and RTOs associated with this emission point and any corrective action that is taken.
M. Record the results of the preventative maintenance inspections completed for the RTOs (CE-190, 191A, 191B, 192A, and 192B).
N. Maintain a written record of the weekly opacity observation and any action resulting from the observation. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit.
O. Records of all maintenance and repair completed on the control devices.
P. Record the weekly average facility grind rate.
Reporting Requirements:
The following information shall be submitted to this department by the 30th of each month for the previous quarter (January 30, April 30, July 30 and October 30).

A. Submit a quarterly report summarizing the weekly average facility grind rate.

B. Submit a quarterly report summarizing the dryer operating hours during periods of off-line RTO regeneration and the date(s) of occurrence.

C. Submit semi-annual report listing deviations from the operating limits specified in conditions 15 and 16 [Operating Limits and Operating Condition Monitoring and Recordkeeping]. The Title V annual compliance certification and semi-annual compliance certification may be used to satisfy this requirement.

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

Table Gluten Meal-9.

<table>
<thead>
<tr>
<th>EP</th>
<th>LCPH ATI / PTO</th>
<th>Stack Height (feet, above ground)</th>
<th>Discharge Style</th>
<th>Stack Opening (inches, dia.)</th>
<th>Exhaust Temp. (°F)</th>
<th>Exhaust Flow Rate (acfm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-190</td>
<td>ATI 4900 / PTO 5783</td>
<td>150</td>
<td>Vertical, unobstructed</td>
<td>120</td>
<td>275</td>
<td>200,000</td>
</tr>
<tr>
<td>SEP-191</td>
<td>ATI 4901 / PTO 5784</td>
<td>150</td>
<td>Vertical, unobstructed</td>
<td>120</td>
<td>275</td>
<td>200,000</td>
</tr>
<tr>
<td>SEP-192</td>
<td>ATI 4902 / PTO 5785</td>
<td>150</td>
<td>Vertical, unobstructed</td>
<td>120</td>
<td>275</td>
<td>200,000</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.
Stack Testing:
The following stack tests shall be performed:

EP 192:

Pollutant – PM\(_{10}\)
1\(^{st}\) Stack Test to be Completed within the first two years of permit term
Test Method: 40 CFR 60, Appendix A, Method 5 and
40 CFR Part 51, Appendix M, Method 202
Authority for Requirement – 567 IAC 22.108(3)

Pollutant – Particulate Matter
1\(^{st}\) Stack Test to be Completed within the first two years of permit term
Test Method: 40 CFR 60, Appendix A, Method 5 and
40 CFR Part 51, Appendix M, Method 202
Authority for Requirement – 567 IAC 22.108(3)

EP 190, 191, 192:

Pollutant – SO\(_x\)
1\(^{st}\) Stack Test to be Completed within the first two years of permit term
Test Method: Method 6C (40 CFR 60) or approved alternative
Authority for Requirement – 567 IAC 22.108(3)

Pollutant – CO
1\(^{st}\) Stack Test to be Completed within the first year of permit term
2\(^{nd}\) Stack Test to be Completed between –2.5 years to 3.5 years of permit term
Test Method – Method 10 (40 CFR 60) or approved alternative
Authority for Requirement – 567 IAC 22.108(3)

EP 191 and 192:

Pollutant – NO\(_x\)
1\(^{st}\) Stack Test to be Completed within the first two years of permit term
Test Method: Method 7E (40 CFR 60) or approved alternative
Authority for Requirement – 567 IAC 22.108(3)

Pollutant – VOC
1\(^{st}\) Stack Test to be Completed within the first two years of permit term
Test Method: Method 25A (40 CFR 60) or approved alternative
Authority for Requirement – 567 IAC 22.108(3)

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

Opacity Monitoring:
Visible emissions shall be observed on a weekly basis to ensure none occur when the emission unit on this emission point is at or near full capacity. If visible emissions are observed, this
would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake visible emissions readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

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

Authority for Requirement: 567 IAC 22.108(14)

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

1 Facility maintained operation & maintenance plans are required for SEP-190, SEP-191 and SEP-192 for the scrubbers and RTOs.
2 Compliance Assurance Monitoring have been waived due to CAM equivalent monitoring required by PTOs 5783/5784/5785.

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

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

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

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: SEP-226, SEP-230
Process Area: 60% GLUTEN MEAL

Table Gluten Meal-10. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/ Fuel</th>
<th>Rated Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-226</td>
<td>EU-226</td>
<td>Gluten Filters 1-15, 19-22 and Vacuum Pumps 1-4</td>
<td>Gluten</td>
<td>18,750 bu/hr</td>
</tr>
<tr>
<td>SEP-230</td>
<td>EU-230</td>
<td>16, 17, 18 Gluten Filter Pumps</td>
<td>Gluten</td>
<td>2,446 bu/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.

Table Gluten Meal-11. Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Pollutant</th>
<th>Emission Limit(s)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-226</td>
<td>EU-226</td>
<td>SO₂</td>
<td>500 ppmv</td>
<td>ATI 4839 / PTO 5485</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>567 IAC 23.3(3)&quot;e&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LCO 10.12(2)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>VOC</td>
<td>0.04 lb/hr</td>
<td>ATI 4839 / PTO 5485</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0.19 tpy</td>
<td></td>
</tr>
<tr>
<td>SEP-230</td>
<td>EU-230</td>
<td>SO₂</td>
<td>500 ppmv</td>
<td>ATI 4838 / PTO 5486</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>567 IAC 23.3(3)&quot;e&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LCO 10.12(2)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>VOC</td>
<td>0.04 lb/hr</td>
<td>ATI 4838 / PTO 5486</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0.16 tpy</td>
<td></td>
</tr>
</tbody>
</table>

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

Table Gluten Meal-12.

<table>
<thead>
<tr>
<th>EP</th>
<th>LCPH ATI / PTO Numbers</th>
<th>Stack Characteristics</th>
<th>Stack Height (feet, above ground)</th>
<th>Discharge Style</th>
<th>Stack Opening (inches, dia.)</th>
<th>Exhaust Temp. (°F)</th>
<th>Exhaust Flow Rate (scfm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-226</td>
<td>4839 / 5485</td>
<td>Stack Characteristics</td>
<td>58</td>
<td>Horizontal</td>
<td>34</td>
<td>124</td>
<td>140</td>
</tr>
<tr>
<td>SEP-230</td>
<td>4838 / 5486</td>
<td>Stack Characteristics</td>
<td>72</td>
<td>Vertical, unobstructed</td>
<td>8</td>
<td>99</td>
<td>103</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.*

Stack testing is not required at this time.

<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: SEP-019, SEP-026, SEP-027, SEP-030, SEP-043
### Process Area: 21% FIBER FEED

#### Table Fiber Feed-1. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
<th>CE ID</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-019</td>
<td>EU-19A</td>
<td>#1 Fiber Feed Dryer Bypass</td>
<td>Fiber Feed</td>
<td>15.75 ton/hr</td>
<td>CE-019</td>
<td>Multivane Scrubber</td>
</tr>
<tr>
<td>SEP-019</td>
<td>EU-19B</td>
<td>#1 Fiber Feed Dryer Bypass – Natural Gas</td>
<td>Natural Gas</td>
<td>0.08 MMCF/hr</td>
<td>CE-019</td>
<td>Multivane Scrubber</td>
</tr>
<tr>
<td>SEP-026</td>
<td>EU-005CA</td>
<td>#4 Fiber Feed Dryer Bypass</td>
<td>Fiber Feed</td>
<td>45 ton/hr</td>
<td>CE-026</td>
<td>Multivane Scrubber</td>
</tr>
<tr>
<td>SEP-026</td>
<td>EU-005CB</td>
<td>#4 Fiber Feed Dryer Bypass – Natural Gas</td>
<td>Natural Gas</td>
<td>0.19 MMCF/hr</td>
<td>CE-026</td>
<td>Multivane Scrubber</td>
</tr>
<tr>
<td>SEP-027</td>
<td>EU-005DA</td>
<td>#5 Fiber Feed Dryer Bypass</td>
<td>Fiber Feed</td>
<td>45 ton/hr</td>
<td>CE-027</td>
<td>Multivane Scrubber</td>
</tr>
<tr>
<td>SEP-027</td>
<td>EU-005DB</td>
<td>#5 Fiber Feed Dryer Bypass – Natural Gas</td>
<td>Natural Gas</td>
<td>0.19 MMCF/hr</td>
<td>CE-027</td>
<td>Multivane Scrubber</td>
</tr>
<tr>
<td>SEP-030</td>
<td>EU-30A</td>
<td>#2 Fiber Feed Dryer Bypass</td>
<td>Fiber Feed</td>
<td>15.75 ton/hr</td>
<td>CE-030</td>
<td>Multivane Scrubber</td>
</tr>
<tr>
<td>SEP-030</td>
<td>EU-30B</td>
<td>#2 Fiber Feed Dryer Bypass – Natural Gas</td>
<td>Natural Gas</td>
<td>0.08 MMCF/hr</td>
<td>CE-030</td>
<td>Multivane Scrubber</td>
</tr>
<tr>
<td>SEP-043</td>
<td>EU-43A</td>
<td>#3 Fiber Feed Dryer Bypass</td>
<td>Fiber Feed</td>
<td>20 ton/hr</td>
<td>CE-043</td>
<td>Multivane Scrubber</td>
</tr>
<tr>
<td>SEP-043</td>
<td>EU-43B</td>
<td>#3 Fiber Feed Dryer Bypass - Natural Gas</td>
<td>Natural Gas</td>
<td>0.08 MMCF/hr</td>
<td>CE-043</td>
<td>Multivane Scrubber</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: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.4(7)
LCO 10.9(1)"g"

Pollutant: Sulfur Dioxide (SO₂)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"
LCO 10.12(2)

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 of this equipment shall comply with the operational limits and requirements listed below:

A. This source shall only exhaust air from the dryer chambers prior to the dryer igniters being activated.
B. No combustion gases and no feed shall be added to the dryer while the dryer exhaust is venting through the bypass.
C. The control equipment on this unit shall be maintained and operated according to the manufacturer’s specification and good operating practices.

Authority for Requirement: LCPH ATI 5348 / PTO 5222
LCPH ATI 5349 / PTO 5223
LCPH ATI 5350 / PTO 5224
LCPH ATI 5351 / PTO 5225
LCPH ATI 5352 / PTO 5226

Operating Condition Monitoring and Recordkeeping:
All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives. The following items shall be recorded:

A. Record the date and duration of each purge exhausted through the bypass stack.
B. All maintenance and repair completed on the control device.

Authority for Requirement: LCPH ATI 5348 / PTO 5222
LCPH ATI 5349 / PTO 5223
LCPH ATI 5350 / PTO 5224
Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Table Fiber Feed-2.

<table>
<thead>
<tr>
<th>EP</th>
<th>LCPH ATI / PTO</th>
<th>Stack Characteristics</th>
<th>Stack Height (feet, above ground)</th>
<th>Discharge Style</th>
<th>Stack Opening (inches, dia.)</th>
<th>Exhaust Temp. (°F)</th>
<th>Exhaust Flow Rate (acfm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-019</td>
<td>5348 / 5222</td>
<td></td>
<td>48</td>
<td>Vertical, unobstructed</td>
<td>24</td>
<td>70</td>
<td>51,200</td>
</tr>
<tr>
<td>SEP-026</td>
<td>5349 / 5223</td>
<td></td>
<td>60</td>
<td>Vertical, unobstructed</td>
<td>30</td>
<td>70</td>
<td>80,000</td>
</tr>
<tr>
<td>SEP-027</td>
<td>5350 / 5224</td>
<td></td>
<td>60</td>
<td>Vertical, unobstructed</td>
<td>30</td>
<td>70</td>
<td>80,000</td>
</tr>
<tr>
<td>SEP-030</td>
<td>5351 / 5225</td>
<td></td>
<td>50</td>
<td>Vertical, unobstructed</td>
<td>24</td>
<td>70</td>
<td>51,200</td>
</tr>
<tr>
<td>SEP-043</td>
<td>5352 / 5226</td>
<td></td>
<td>57</td>
<td>Vertical, unobstructed</td>
<td>24</td>
<td>70</td>
<td>51,200</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.

Stack testing is not required at this time.

Opacity monitoring is not required at this time.

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: SEP-032
Process Area: 21% FIBER FEED

Associated Equipment
Associated Emission Unit ID Numbers: EU-32
Emissions Control Equipment ID Number: CE-032
Emissions Control Equipment Description: Baghouse

Emission Units vented through this Emission Point: EU-32B Cooler 2, EU-32C Stedman Mills
Emission Unit Description: 21% Gluten Feed Stedman Mill D.C.
Raw Material/Fuel: Fiber Feed
Rated Capacity: 126.6 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): 20%
Authority for Requirement: LCPH ATI 4820 / PTO 0

Pollutant: PM\textsubscript{10}
Emission Limit(s): 0.20 lb/hr
Authority for Requirement: LCPH ATI 4820 / PTO 0

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.4(7)
LCO 10.9(1)"g"

Pollutant: Particulate Matter
Emission Limit(s): 0.20 lb/hr
Authority for Requirement: LCPH ATI 4820 / PTO 0

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 6.11 lb/hr
Authority for Requirement: LCPH ATI 4820 / PTO 0

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

Control Device:
A baghouse shall be used to control particulate matter emissions. The control equipment shall be maintained properly and operated at all times. All appropriate probes, monitors and gauges
needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and in good operating condition.

Authority for Requirement: LCPH ATI 4820/ PTO 0

Operating Limits:
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

A. The differential pressure measured across the baghouse, CE-032, shall be maintained between 0.1 inches of water column and 6 inches of water column, with the exception of unit startup.

B. The control equipment on this unit shall be maintained according to the manufacturer’s specification and good operating practices.

C. The facility-wide grind rate shall be limited to 450,000 bushel of corn per day based on a 52-week rolling average.

Operation parameters delineated at the time of final compliance inspections and testing shall be documented and become incorporated into the conditions of the final Permit to Operate.

Authority for Requirement: LCPH ATI 4820 / PTO 0

Operating Condition Monitoring and Recordkeeping:
If not specified elsewhere, 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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. The owner or operator shall monitor and record ‘no visible emissions’ observations on a weekly basis. An exceedance of ‘no visible emissions’ will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.

B. Monitor and record any maintenance and repair completed on the control equipment.

C. Monitor and record the differential pressure on the baghouse on a weekly basis while the control equipment and emission units are in operation.

D. Calculate and record the weekly facility grind rate average based on 52-week rolling average.

Authority for Requirement: LCPH ATI 4820 / PTO 0

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

Stack testing is not required at this time.

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling
operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

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

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source’s compliance with the applicable requirements. The data pertaining to the plan shall be maintained on-site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility’s implementation of its obligation to operate according to good air pollution control practice.

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

Authority for Requirement: 567 IAC 22.108(3)
**Emission Point ID Number: SEP-211**  
**Process Area: 21% FIBER FEED**

**Associated Equipment**  
Associated Emission Unit ID Numbers: EU-211  
Emissions Control Equipment ID Number: CE-211  
Emissions Control Equipment Description: Packed Tower Scrubber

---

Emission Unit vented through this Emission Point: EU-211  
Emission Unit Description: Feedhouse Miscellaneous Fugitive Emission Sources  
Raw Material/Fuel: Fiber Feed  
Rated Capacity: 126.6 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):** 20%  
**Authority for Requirement:** LCPH ATI 4841 / PTO 6331  
LCO 10.7

**Pollutant:** Sulfur Dioxide (SO$_2$)  
**Emission Limit(s):** 6.11 lb/hr  
**Authority for Requirement:** LCPH ATI 4841 / PTO 6331

**Pollutant:** Sulfur Dioxide (SO$_2$)  
**Emission Limit(s):** 500 ppmv  
**Authority for Requirement:** 567 IAC 23.3(3)"e"  
LCO 10.12(2)

**Pollutant:** Volatile Organic Compounds (VOC)  
**Emission Limit(s):** 2.72 lb/hr  
**Authority for Requirement:** LCPH ATI 4841 / PTO 6331

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

**Control Device:**  
A packed bed scrubber shall be installed to control SO$_2$ emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in condition 16 [Operating Condition Monitoring and Recordkeeping] shall be installed, maintained and operating during the operation of the emission unit and control device at all times.
Authority for Requirement: LCPH ATI 4841 / PTO 6331

**Operating Limits:**
*The owner or operator of this equipment shall comply with the operational limits and requirements listed below:*

A. The differential pressure measured across the scrubber, CE-211, shall be maintained between 0.5 inches of water column and 10 inches of water column, with the exception of unit startup.

B. The fresh water flow rate to the scrubber, CE-211, shall be maintained at 133 gallons per minute or higher.

C. The control equipment on this unit shall be maintained according to the manufacturer’s specification and good operating practices.

D. The facility-wide grind rate shall be limited to 450,000 bushels of corn per day based on a 52-week rolling average.

Authority for Requirement: LCPH ATI 4841 / PTO 6331

**Operating Condition Monitoring and Recordkeeping:**
If not specified elsewhere, 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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. The owner or operator shall monitor and record ‘no visible emissions’ observations on a weekly basis. An exceedance of ‘no visible emissions’ will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.

B. Monitor and record any maintenance and repair completed on the control equipment.

C. Monitor and record the differential pressure on the wet scrubber on a daily basis while the control equipment and emission units are in operation.

D. Monitor and record the fresh water flow rate in the scrubber on a daily basis.

E. Calculate and record the weekly facility grind rate average based on a 52-week rolling average.

Authority for Requirement: LCPH ATI 4841 / PTO 6331

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

Stack Height, (ft, from the ground): 73
Discharge Style: Vertical, Unobstructed
Stack Opening, (inches, diameter): 30
Exhaust Temperature (°F): 75
Exhaust Flow Rate (scfm): 11,462

Authority for Requirement: LCPH ATI 4841 / PTO 6331

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 – Sulfur Dioxide (SO₂)
  - 1st Stack Test to be Completed by – within first two years of permit term
  - Test Method – Method 6C (40 CFR 60) or approved alternative
  - Authority for Requirement – 567 IAC 22.108(3)

<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>

1 CAM has been waived. PTO 6331 has CAM equivalent monitoring and recordkeeping required. Authority for Requirement: 567 IAC 22.108(3)
**Emission Point ID Number:** SEP-271  
**Process Area:** 21% FIBER FEED

### Table Fiber Feed-3. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
<th>CE ID</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-271</td>
<td>EU-32A</td>
<td>Stedman Mill Fiber Feed</td>
<td>15 ton/hr</td>
<td></td>
<td>CE-271</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-271</td>
<td>EU-32B</td>
<td>Stedman Mill Fiber Feed</td>
<td>15 ton/hr</td>
<td></td>
<td>CE-271</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-271</td>
<td>EU-32C</td>
<td>Stedman Mill Fiber Feed</td>
<td>15 ton/hr</td>
<td></td>
<td>CE-271</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-271</td>
<td>EU-32D</td>
<td>Stedman Mill Fiber Feed</td>
<td>15 ton/hr</td>
<td></td>
<td>CE-271</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-271</td>
<td>EU-32E</td>
<td>Stedman Mill Fiber Feed</td>
<td>15 ton/hr</td>
<td></td>
<td>CE-271</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-271</td>
<td>EU-32F</td>
<td>Stedman Mill Fiber Feed</td>
<td>15 ton/hr</td>
<td></td>
<td>CE-271</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-271</td>
<td>EU-32G</td>
<td>Stedman Mill Fiber Feed</td>
<td>15 ton/hr</td>
<td></td>
<td>CE-271</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-271</td>
<td>EU-32H</td>
<td>Stedman Mill Fiber Feed</td>
<td>15 ton/hr</td>
<td></td>
<td>CE-271</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-271</td>
<td>EU-271</td>
<td>#1 Vertical Fiber Cooler</td>
<td>Fiber Feed</td>
<td>60 ton/hr</td>
<td>CE-271</td>
<td>Baghouse</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): 20%  
Authority for Requirement: LCPH ATI 6188 / PTO 6529  
LCO 10.7

**Pollutant:** PM$_{10}$  
Emission Limit(s): 0.93 lb/hr  
Authority for Requirement: LCPH ATI 6188 / PTO 6529

**Pollutant:** Particulate Matter  
Emission Limit(s): 0.93 lb/hr  
Authority for Requirement: LCPH ATI 6188 / PTO 6529

**Pollutant:** Particulate Matter  
Emission Limit(s): 0.1 gr/scf  
Authority for Requirement: 567 IAC 23.4(7)  
LCO 10.9(1)"g"

**Pollutant:** Volatile Organic Compounds (VOC)  
Emission Limit(s): 3.0 lb/hr  
Authority for Requirement: LCPH ATI 6188 / PTO 6529

### Operational Limits & Requirements

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*
Control Device:
A baghouse shall be installed to control particulate matter emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in condition 16 [Operating Condition Monitoring and Recordkeeping] shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 6188 / PTO 6529

Operating Limits:
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

A. The pressure drop across the baghouse shall be between 0.5 and 8 inches of water column.

Authority for Requirement: LCPH ATI 6188 / PTO 6529

Operating Condition Monitoring and Recordkeeping:
If not specified elsewhere, 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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.

B. The owner or operator shall monitor and record pressure drop reading across the baghouse on a weekly basis.

C. The owner or operator shall record all maintenance work performed on the baghouse.

Authority for Requirement: LCPH ATI 6188 / PTO 6529

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

Stack Height, (ft, from the ground): 76
Discharge Style: Vertical, Unobstructed
Stack Opening, (inches, diameter): 36
Exhaust Temperature (°F): 120
Exhaust Flow Rate (acfm): 27,000

Authority for Requirement: LCPH ATI 6188 / PTO 6529

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
  1st Stack Test to be Completed within the first two years of permit term
  Test Method: 40 CFR 60, Appendix A, Method 5 and
  40 CFR Part 51, Appendix M, Method 202
  Authority for Requirement – 567 IAC 22.108(3)

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

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

Authority for Requirement: 567 IAC 22.108(3)

Refer to Appendix B, CAM Plans, for the complete compliance assurance monitoring plan.
Emission Point ID Number: SEP-006
Process Area: GERM

Associated Equipment
Associated Emission Unit ID Numbers: EU-6
Emissions Control Equipment ID Number: CE-006A, CE-006B, CE-006C
Emissions Control Equipment Description: Cyclone, Cyclone, Horizontal Cross Flow Scrubber

Emission Unit vented through this Emission Point: EU-6
Emission Unit Description: #2 Fluid Bed Germ Dryer
Raw Material/Fuel: Corn Germ
Rated Capacity: 32,344 lb/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): 20%
Authority for Requirement: LCPH ATI 4815/ PTO 5974

Pollutant: PM\textsubscript{10}
Emission Limit(s): 4.35 lb/hr
Authority for Requirement: LCPH ATI 4815 / PTO 5974

Pollutant: Particulate Matter
Emission Limit(s): 4.35 lb/hr
Authority for Requirement: LCPH ATI 4815 / PTO 5974

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: LCPH ATI 4815 / PTO 5974
567 IAC 23.4(7)
LCO 10.9(1)"g"

Pollutant: Sulfur Dioxide (SO\textsubscript{2})
Emission Limit(s): 13.08 lb/hr
Authority for Requirement: LCPH ATI 4815 / PTO 5974

Pollutant: Sulfur Dioxide (SO\textsubscript{2})
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"
LCO 10.12(2)

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 10.13 lb/hr
Authority for Requirement:  LCPH ATI 4815 / PTO 5974

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

**Control Device:**
Dual cyclone and a wet scrubber shall be installed to control particulate matter and sulfur dioxide emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in condition 16 [Operating Condition Monitoring and Recordkeeping] shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement:  LCPH ATI 4815 / PTO 5974

**Operating Limits:**
*The owner or operator of this equipment shall comply with the operational limits and requirements listed below:*

A. The facility-wide grind shall be limited to 450,000 bushels of corn per day based on a 52-week rolling average.
B. Recirculated water flow to the scrubber shall be maintained at a minimum of 600 gpm.
C. Fresh water (make up) flow to the scrubber shall be maintained at a minimum of 32 gallons per minute or greater.
D. The differential pressure measured across the scrubber shall be greater than 0.5 inches of water column and less than 14 inches of water column.
E. The control devices on the unit shall be maintained according to the manufacturer’s specifications and/or good operating practices.

Authority for Requirement:  LCPH ATI 4815 / PTO 5974

**Operating Condition Monitoring and Recordkeeping:**
If not specified elsewhere, 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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and authorized representatives.

The owner or operator shall monitor and record ‘no visible emissions’ observations on a weekly basis. An exceedance of ‘no visible emissions’ will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.

A. Record the weekly average facility grind rate.
B. Monitor and record the pressure differential across the wet scrubber on a weekly basis.
C. Monitor and record the recirculated flow to the scrubber on a daily basis.
D. Monitor and record the fresh water flow to the scrubber on a daily basis.
E. Record all maintenance and repair completed on the control devices.

Reporting Requirements:
The following information shall be submitted to this department by the 30th of each month for the previous quarter (January 30, April 30, July 30, and October 30).

A. Submit a quarterly report summarizing the 52-week rolling average facility grind rate.

Authority for Requirement:  LCPH ATI 4815 / PTO 5974

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

- Stack Height, (ft, from the ground): 142
- Discharge Style: Vertical, Unobstructed
- Stack Opening, (inches, diameter): 72
- Exhaust Temperature (°F): 125
- Exhaust Flow Rate (acfm): 90,749

Authority for Requirement:  LCPH ATI 4815 / PTO 5974

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 – Sulfur Dioxide (SO₂)
  1st Stack Test to be Completed by – within first two years of permit term
  Test Method – Method 6C (40 CFR 60) or approved alternative
  Authority for Requirement – 567 IAC 22.108(3)

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

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective
action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

| Agency Approved Operation & Maintenance Plan Required? | Yes ☐ No ☒ |
| Facility Maintained Operation & Maintenance Plan Required? | Yes ☒1 No ☐ |
| Compliance Assurance Monitoring (CAM) Plan Required? | Yes ☒2 No ☐ |

1 Facility maintained operation & maintenance plans are required for PM, PM10 and VOC.
2 Compliance Assurance Monitoring plan has been waived. PTO 5974 has CAM equivalent monitoring required.

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

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

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

Authority for Requirement: 567 IAC 22.108(3)
**Emission Point ID Number:** SEP-015  
**Process Area:** GERM  

**Associated Equipment**  
Associated Emission Unit ID Numbers: EU-15  
Emissions Control Equipment ID Number: CE-015A, CE-015B, CE-015C  
Emissions Control Equipment Description: Cyclone, Cyclone, Entoleter Scrubber  

---  

Emission Unit vented through this Emission Point: EU-15  
Emission Unit Description: #1 Fluid Bed Germ Dryer  
Raw Material/Fuel: Corn Germ  
Rated Capacity: 95,000 lb/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): 10%  
Authority for Requirement: LCPH ATI 4541 / PTO 4713R1

Pollutant: PM$_{10}$  
Emission Limit(s): 2.79 lb/hr  
Authority for Requirement: LCPH ATI 4541 / PTO 4713R1

Pollutant: Particulate Matter  
Emission Limit(s): 2.79 lb/hr, 0.1 gr/scf  
Authority for Requirement: 567 IAC 23.4(7)  
LCO 10.9(1)"g"  
LCPH ATI 4541 / PTO 4713R1

Pollutant: Sulfur Dioxide (SO$_2$)$_{1}$  
Emission Limit(s): 90% control or ≤ 20 ppmv  
Authority for Requirement: LCPH ATI 4541 / PTO 4713R1

Pollutant: Volatile Organic Compounds (VOC)  
Emission Limit(s): 5.17 lb/hr, 22.64 tpy  
Authority for Requirement: LCPH ATI 4541 / PTO 4713R1

---  

1 All emission limitations (including operating parameter ranges and limits) apply at all times when the process equipment is operating, except, in the case of process equipment or pollution control systems, during previously planned startup and shutdown periods (including planned maintenance periods), and malfunctions as defined in 40 CFR 63. These startup and shutdown periods shall not exceed the minimum amount of time necessary for these events, and during these events, ADM shall minimize emissions to the extent practicable. To the extent practicable,
startup and shutdown of pollution control systems will be performed during times when process equipment is also shut down. Also, ADM shall to the extent practicable, control emissions during a malfunction event in a manner consistent with good air pollution control practice for minimizing emissions.

Authority for Requirement: LCPH ATI 4541 / PTO 4713R1

**Operational Limits & Requirements**

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

**Control Device:**

A wet scrubber shall be installed to control sulfur dioxide and particulate matter emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 4541 / PTO 4713R1

**Operating Limits:**

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

A. Water flow to the scrubber shall be greater than 400 gallons per minute.
B. pH of the scrubbing liquor shall be maintained above 6.8.
C. Pressure drop across the scrubber shall be maintained between 1 – 10 inches of water.
D. The ADM Corn Processing Wet Mill shall not grind more than 450,000 bushels of corn per day based on a 52-week rolling average.

Authority for Requirement: LCPH ATI 4541 / PTO 4713R1

**Operating Condition Monitoring and Recordkeeping:**

If not specified elsewhere, 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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. The owner or operator shall monitor and record ‘no visible emissions’ observations on a weekly basis. An exceedance of ‘no visible emissions’ will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.
B. Monitor and record the differential pressure on the scrubber on a daily basis while the control equipment is in operation.
C. Monitor and record the scrubber water flow rate on a daily basis.
D. Monitor and record scrubber pH on a daily basis.
E. Monitor and record any maintenance and repair completed on the control unit.
F. Record the weekly average facility grind rate.
G. Maintain copies of source test results until a new approved representative test is conducted or for five (5) years, whichever is longer

Authority for Requirement: LCPH ATI 4541 / PTO 4713R1

Quarterly Report Requirements:
The following information shall be submitted to this department by the 15th of each month for the previous quarter (January 15, April 15, July 15, and October 15).

A. Submit a quarterly report summarizing the weekly average grind rate for each month of the quarter.

Authority for Requirement: LCPH ATI 4541 / PTO 4713R1

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

Stack Height, (ft, from the ground): 146
Discharge Style: Vertical, Unobstructed
Stack Opening, (inches, diameter): 60
Exhaust Temperature (°F): 135
Exhaust Flow Rate (scfm): 65,000

Authority for Requirement: LCPH ATI 4541 / PTO 4713R1

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:
The following stack tests shall be performed:

Pollutant – PM\textsubscript{10}
1st Stack Test to be Completed within the first two years of permit term
Authority for Requirement – 567 IAC 22.108(3)

Pollutant – Particulate Matter
1st Stack Test to be Completed within the first two years of permit term
Authority for Requirement – 567 IAC 22.108(3)
Pollutant – Sulfur Dioxide (SO₂)

1st Stack Test to be Completed by – within first two years of permit term
Test Method – Method 6C (40 CFR 60) or approved alternative
Authority for Requirement – 567 IAC 22.108(3)

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

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >10 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required?  Yes ☐ No ☒
Facility Maintained Operation & Maintenance Plan Required?  Yes ☐ No ☒
Compliance Assurance Monitoring (CAM) Plan Required?  Yes ☐ No ☒¹

¹ Compliance Assurance Monitoring plan has been waived. PTO 4713R1 has CAM equivalent monitoring required.

Authority for Requirement: 567 IAC 22.108(3)
**Emission Point ID Number:** SEP-016  
**Process Area:** GERM

### Table Germ-1. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
<th>CE-ID</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-016</td>
<td>EU-12</td>
<td>Fiber Feed – Wet Feed Tank</td>
<td>Fiber Feed</td>
<td>57.5 ton/hr</td>
<td>CE-16E</td>
<td>Horizontal Cross Flow Scrubber</td>
</tr>
<tr>
<td>SEP-016</td>
<td>EU-16A</td>
<td>#1 Steam Tube Germ Dryer</td>
<td>Corn Germ</td>
<td>32 ton/hr</td>
<td>CE-16A</td>
<td>Cyclone, Horizontal Cross Flow Scrubber</td>
</tr>
<tr>
<td>SEP-016</td>
<td>EU-16B</td>
<td>#2 Steam Tube Germ Dryer</td>
<td>Corn Germ</td>
<td>32 ton/hr</td>
<td>CE-16B</td>
<td>Cyclone, Horizontal Cross Flow Scrubber</td>
</tr>
<tr>
<td>SEP-016</td>
<td>EU-16C</td>
<td>#3 Steam Tube Germ Dryer</td>
<td>Corn Germ</td>
<td>32 ton/hr</td>
<td>CE-16C</td>
<td>Cyclone, Horizontal Cross Flow Scrubber</td>
</tr>
<tr>
<td>SEP-016</td>
<td>EU-16D</td>
<td>#4 Steam Tube Germ Dryer</td>
<td>Corn Germ</td>
<td>32 ton/hr</td>
<td>CE-16D</td>
<td>Cyclone, Horizontal Cross Flow Scrubber</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):** 10%²  
  **Authority for Requirement:** LCPH ATI 4818 / PTO 5782  
  LCO 10.7

- **Pollutant:** PM₁₀  
  **Emission Limit(s):** 1.65 lb/hr¹  
  **Authority for Requirement:** LCPH ATI 4818 / PTO 5782

- **Pollutant:** Particulate Matter  
  **Emission Limit(s):** 0.1 gr/dscf  
  **Authority for Requirement:** 567 IAC 23.4(7)  
  LCO 10.9(1)"g"  
  LCPH ATI 4818 / PTO 5782

- **Pollutant:** Particulate Matter  
  **Emission Limit(s):** 1.65 lb/hr¹  
  **Authority for Requirement:** LCPH ATI 4818 / PTO 5782
Pollutant: Sulfur Dioxide (SO₂)
Emission Limit(s): 4.7 lb/hr¹
Authority for Requirement: LCPH ATI 4818/ PTO 5782

Pollutant: Sulfur Dioxide (SO₂)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e" LCO 10.12(2)

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 21.36 lb/hr¹
Authority for Requirement: LCPH ATI 4818/ PTO 5782

¹ Standard is expressed as the average of three runs.
² An exceedance of no visible emissions will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, Linn County may require additional proof to demonstrate compliance (e.g., stack testing).

Table Germ-2. 1992 Corn Grind Expansion Emission Limits

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Pollutant</th>
<th>Emission Limit(s)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-016</td>
<td>EU-16A</td>
<td>Opacity</td>
<td>10%</td>
<td>1992 Corn Grind Expansion Synthetic Minor Limit</td>
</tr>
<tr>
<td></td>
<td>EU-16B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EU-16C</td>
<td>PM₁₀</td>
<td>14.3 tpy¹</td>
<td>1992 Corn Grind Expansion Synthetic Minor Limit</td>
</tr>
<tr>
<td></td>
<td>EU-16D</td>
<td>NOₓ</td>
<td>38 tpy¹</td>
<td>1992 Corn Grind Expansion Synthetic Minor Limit</td>
</tr>
</tbody>
</table>

¹ Standard expressed as a 12-month rolling total

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

Control Device:
A wet scrubber and four cyclones shall be installed to control particulate matter emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors, and gauges needed to measure the parameters outlined in condition 16 [Operating Condition Monitoring and Recordkeeping] shall be installed, maintained and operating during the operation of the emission unit and control devices at all times.

Authority for Requirement: LCPH ATI 4818/ PTO 5782

Operating Limits:
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

A. The facility-wide grind shall be limited to 450,000 bushels of corn per day based on a 52-week rolling average.

B. The fresh water flow to the scrubber shall be no less than 45 gpm.
C. The recirculation water flow to the scrubber shall be no less than 610 gpm.
D. The pH of the scrubber liquid shall be no less than 7.0.
E. The pressure differential across the scrubber shall be maintained between 0.5” to 10” w.c.
F. The scrubber on this unit shall be maintained according to the manufacturer’s specifications and good operating practices.

Authority for Requirement: LCPH ATI 4818/ PTO 5782

Operating Condition Monitoring and Recordkeeping:
All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. The owner or operator shall record the weekly average facility grind rate.
B. The owner or operator shall monitor and record the recirculation water flow rate in the scrubber on a daily basis.
C. The owner or operator shall monitor and record the fresh water flow rate in the scrubber on a daily basis.
D. The owner or operator shall monitor and record the pH of the scrubbing liquid on a daily basis.
E. The owner or operator shall monitor and record the pressure differential across the scrubber on a daily basis.
F. The owner or operator shall maintain a record of all maintenance completed on the control device.
G. The owner or operator shall monitor and record ‘no visible emissions’ observations on a weekly basis. An exceedance of ‘no visible emissions’ will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.

Authority for Requirement: LCPH ATI 4818/ PTO 5782

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

Stack Height, (ft, from the ground): 144
Discharge Style: Vertical, Unobstructed
Stack Opening, (inches, diameter): 72
Exhaust Temperature (°F): 125
Exhaust Flow Rate (acfm): 106,022

Authority for Requirement: LCPH ATI 4818/ PTO 5782

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 – Sulfur Dioxide (SO$_2$)
1st Stack Test to be Completed by – within first two years of permit term
Test Method – Method 6C (40 CFR 60) or approved alternative
Authority for Requirement – 567 IAC 22.108(3)

Pollutant – Volatile Organic Compounds (VOC)
1st Stack Test to be Completed by – within first two years of permit term
Test Method – Method 25A (40 CFR 60) or approved alternative
Authority for Requirement – 567 IAC 22.108(3)

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

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >10 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☑
Facility Maintained Operation & Maintenance Plan Required? Yes ☑¹ No ☐
Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☑²

¹ Facility maintained operation & maintenance plans are required for PM and PM$_{10}$.
² Compliance Assurance Monitoring has been waived for SOx and VOC control. PTO 5782 has CAM equivalent monitoring and recordkeeping requirements.

Authority for Requirement: 567 IAC 22.108(3)
**Emission Point ID Number:** SEP-021  
**Process Area:** GERM

**Associated Equipment**
Associated Emission Unit ID Numbers: EU-21  
Emissions Control Equipment ID Number: CE-021A, CE-021B, CE-021C  
Emissions Control Equipment Description: Cyclone, Cyclone, Multivane Scrubber

Emission Unit vented through this Emission Point: EU-21  
Emission Unit Description: Germ Cooler  
Raw Material/Fuel: Corn Germ  
Rated Capacity: 32.8 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):** 20%  
  **Authority for Requirement:** LCPH ATI 4819 / PTO 6149

- **Pollutant:** PM$_{10}$  
  **Emission Limit(s):** 0.2 lb/hr  
  **Authority for Requirement:** LCPH ATI 4819 / PTO 6149

- **Pollutant:** Particulate Matter  
  **Emission Limit(s):** 0.1 gr/dscf  
  **Authority for Requirement:** 567 IAC 23.4(7)  
  LCO 10.9(1)"g"  
  LCPH ATI 4819 / PTO 6149

- **Pollutant:** Particulate Matter  
  **Emission Limit(s):** 0.20 lb/hr  
  **Authority for Requirement:** LCPH ATI 4819 / PTO 6149

- **Pollutant:** VOC  
  **Emission Limit(s):** 2.16 lb/hr  
  **Authority for Requirement:** LCPH ATI 4819/ PTO 6149

**Operational Limits & Requirements**

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

**Control Device:**
Dual cyclones and a wet scrubber shall be used to control particulate matter emissions. The control equipment shall be maintained properly and operated at all times the air pollution source
is in operation. All appropriate probes and gauges needed to measure the parameters outlined in [Operating Condition Monitoring and Recordkeeping] shall be installed and maintained in a good operating condition.

Authority for Requirement:  LCPH ATI 4819 / PTO 6149

**Operating Limits:**
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

A. The facility-wide grind shall be limited to 450,000 bushels of corn per day based on a 52-week rolling average.

B. Water flow to the scrubber unit shall be maintained at a minimum of 104 gallons per minute at all times while the unit is in operation.

C. The differential pressure measured across the scrubber shall be greater than 0.5 inch of water column and less than 10 inches of water column.

D. The control equipment shall be maintained according to the manufacturer’s specification and/or good operating practices.

Authority for Requirement:  LCPH ATI 4819 / PTO 6149

**Operating Condition Monitoring and Recordkeeping:**
If not specified elsewhere, 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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. Monitor and record the pressure differential across the scrubber on a daily basis.

B. Monitor and record the water flow to the scrubber on a daily basis.

C. Monitor and record “no visible emissions” observations on a weekly basis. An exceedance of “no visible emissions” will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the findings and corrective action taken.

D. Calculate and record the weekly facility grind rate on a 52-week rolling average basis.

E. Record all maintenance and repair completed on the control devices.

Authority for Requirement:  LCPH ATI 4819 / PTO 6149

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

Stack Height, (ft, from the ground): 100
Discharge Style: Vertical, Unobstructed
Stack Opening, (inches, diameter): 30
Exhaust Temperature (°F): 105
Exhaust Flow Rate (acfm): 16,298

Authority for Requirement:  LCPH ATI 4819 / PTO 6149
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**
Stack testing is not required for EP 021.

**Opacity Monitoring:**
The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >20% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

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

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: SEP-388
Process Area: PELLET MILL

Table Pellet Mill-1. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
<th>CE ID</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-388</td>
<td>EU-1</td>
<td>#4 Pellet Cooler</td>
<td>Gluten Feed</td>
<td>39 tons/hr</td>
<td>CE-001A</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-388</td>
<td>EU-29</td>
<td>#1 Pellet Cooler</td>
<td>Gluten Feed</td>
<td>26 tons/hr</td>
<td>CE-029 A</td>
<td>Cyclone</td>
</tr>
<tr>
<td>SEP-388</td>
<td>EU-36</td>
<td>Pellet Mill Dust Collection</td>
<td>Gluten Feed</td>
<td>130 tons/hr</td>
<td>CE-036</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-388</td>
<td>EU-38</td>
<td>#2 Pellet Cooler</td>
<td>Gluten Feed</td>
<td>26 tons/hr</td>
<td>CE-038A</td>
<td>Cyclones</td>
</tr>
<tr>
<td>SEP-388</td>
<td>EU-39</td>
<td>#3 Pellet Cooler</td>
<td>Gluten Feed</td>
<td>36 tons/hr</td>
<td>CE-039A</td>
<td>Cyclones</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): 20%

Authority for Requirement: LCPH ATI 5037 / PTO 6077

LCO 10.7

**Pollutant: PM\textsubscript{10}**

Emission Limit(s): 4.54 lb/hr\textsuperscript{1}, 3.28 lb/hr\textsuperscript{3}, 14.4 tpy

Authority for Requirement: LCPH ATI 5037 / PTO 6077

**Pollutant: Particulate Matter**

Emission Limit(s): 4.54 lb/hr

Authority for Requirement: LCPH ATI 5037 / PTO 6077

**Pollutant: Particulate Matter**

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.4(7)

LCO 10.9(1)"g"

**Pollutant: Volatile Organic Compounds (VOC)**

Emission Limit(s): 16.35 lb/hr

Authority for Requirement: LCPH ATI 5037 / PTO 6077

\textsuperscript{1} Emission rate used to demonstrate no exceedance of the National Ambient Air Quality Standards (NAAQS).
An exceedance of the indicator opacity of no visible emissions will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If opacity continues to be seen after the corrections, Linn County may require additional proof to demonstrate compliance (e.g. stack testing).

PM$_{10}$ potential to emit from Coolers #1 (EU-29), #2 (EU-038), #3 (EU-039), and #4 (EU-1) shall be limited to 3.28 pounds per hour and 14.4 tons per year for this project to remain below PSD significance thresholds.

**Operational Limits & Requirements**

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

**Control Equipment**

Two baghouses and seven cyclones shall be used to control particulate matter emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in condition 16 [Operating Condition Monitoring and Recordkeeping] shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 5037 / PTO 6077

**Operating Limits**

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

A. The control equipment shall be maintained according to the manufacturer’s specifications and good operating practices.

B. Pressure drop across the baghouse, CE-036, shall be maintained between 0.5 to 8 inches of water.

C. Pressure drop across the baghouse, CE-001A, shall be maintained between 0.2 to 6 inches of water.

D. The facility-wide grind shall be limited to 450,000 bushels of corn per day based on a 52-week rolling average.

Authority for Requirement: LCPH ATI 5037 / PTO 6077

**Operating Condition Monitoring and Recordkeeping**:

If not specified elsewhere, 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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. Pressure drop across the baghouse, CE-036, shall be recorded on a daily basis while the control equipment is in operation.

B. Pressure drop across the baghouse, CE-001A, shall be recorded on a daily basis while the control equipment is in operation.

C. The owner or operator shall monitor and record ‘no visible emissions’ observations on a weekly basis while the control equipment is in operation. An exceedance of ‘no visible emissions’ observations will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If opacity continues to be seen after the corrections, Linn County may require additional proof to demonstrate compliance (e.g. stack testing).
emissions’ will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.

D. Record the weekly average facility grind rate.
E. Record all maintenance and repair completed to the control equipment.
F. Retain copies of emission test results for compliance testing completed on this emission source.

Authority for Requirement: LCPH ATI 5037 / PTO 6077

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 140  
Stack Opening, (inches, dia.): 74  
Exhaust Flow Rate (scfm): 99,487  
Exhaust Temperature (°F): 140  

Authority for Requirement: LCPH ATI 5037 / PTO 6077

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:**
The following stack tests shall be performed:

Pollutant – PM$_{10}$

1$^{\text{st}}$ Stack Test to be Completed within the first two years of permit term  
Test Method: 40 CFR 60, Appendix A, Method 5 and  
40 CFR Part 51, Appendix M, Method 202  
Authority for Requirement – 567 IAC 22.108(3)

Pollutant – Particulate Matter

1$^{\text{st}}$ Stack Test to be Completed within the first two years of permit term  
Test Method: 40 CFR 60, Appendix A, Method 5 and  
40 CFR Part 51, Appendix M, Method 202  
Authority for Requirement – 567 IAC 22.108(3)

**Opacity Monitoring:**
The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling
operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

ι Compliance Assurance Monitoring plan has been waived. PTO 6077 has CAM equivalent monitoring required.

Authority for Requirement: 567 IAC 22.108(3)
Alcohol Process Area:

NSPS:
Several pieces of equipment associated with this process group are subject to 40 CFR Part 60 Subpart VV, Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry. (ADM Corn Processing is responsible for demonstrating compliance with 40 CFR 60 Subpart VV as printed in the Federal Register.)

Authority for Requirement: LCO 10.9(2)(a)“40”
567 IAC 23.1(2)”n”
40 CFR Subpart VV

Several pieces of equipment associated with this process group are subject to 40 CFR Part 60 Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) For Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. (ADM Corn Processing is responsible for demonstrating compliance with 40 CFR 60 Subpart Kb as printed in the Federal Register.)

Authority for Requirement: LCO 10.9(2)(a)“56”
567 IAC 23.1(2)”ddd”
40 CFR Subpart Kb

NESHAP:
Several pieces of equipment associated with this process group are subject to 40 CFR Part 63 Subpart FFFF, National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing. (ADM Corn Processing is responsible for demonstrating compliance with 40 CFR 63 Subpart FFFF as printed in the Federal Register.)

Authority for Requirement: LCO 10.9(4) “ffff”
567 IAC 23.1(4) “cf”
40 CFR 63 Subpart FFFF
**Emission Point ID Number:** SEP-055  
**Process Area:** ALCOHOL  

**Associated Equipment**  
**Associated Emission Unit ID Numbers:** EU-55  
**Emissions Control Equipment ID Number:** CE-055  
**Emissions Control Equipment Description:** Wet Scrubber

---

**Emission Units vented through this Emission Point:** EU-55A, EU-55B, EU-55C, EU-55D  
**Emission Unit Description:** Fermenter Vent / CO₂ Scrubber  
**Raw Material/Fuel:** Carbon Dioxide (CO₂)  
**Rated Capacity:** 100.4 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:** Volatile Organic Compounds (VOC)  
**Emission Limit(s):** 95% control or 20 ppmv, 72.4 lb/hr¹  
**Authority for Requirement:** LCPH ATI 6443 / PTO 6507

¹ All emission limitations (including operating parameter ranges and limits) apply at all times when process equipment is operating, except, in the case of process equipment or pollution control systems, during previously planned startup and shutdown periods (including planned maintenance periods), and malfunctions as defined in 40 CFR Part 63. These startup and shutdown periods shall not exceed the minimum amount of time necessary for these events, and during these events, ADM shall minimize emissions to the extent practicable. To the extent practicable, startup and shutdown of pollution control systems will be performed during times when the process equipment is also shut down. Also, ADM shall to the extent practicable, control emissions during a malfunction event in a manner consistent with good air pollution control practice for minimizing emissions. *ADM Consent Decree, Cedar Rapids Control Technology Plan Section 7.0, Footnote 1.*

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

**Control Device:**  
A packed bed scrubber shall be installed to control volatile organic compounds emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.  
**Authority for Requirement:** LCPH ATI 6443 / PTO 6507
**NSPS and NESHAP Applicability:**

In general, the federal standards of performance for new stationary sources (new source performance standards) shall be applicable as specified in LCO 10.9.2 and 567 IAC 23.1(2). The federal standards for hazardous air pollutants (National Emission Standards for Hazardous Air Pollutants) shall be applicable as specified in LCO 10.9.3 and 567 IAC 23.1(3). The federal standards for hazardous air pollutants for source categories (National Emission Standards for Hazardous Air Pollutants for Source Categories) shall be applicable as specified in LCO 10.9.4 and 567 IAC 23.1(4).

A. This emission unit is not subject to a NSPS as there are no subparts for this source category.

B. This emission unit is subject to Subpart A (General Provisions, 40 CFR §63.1 – 40 CFR §63.15) and FFFF (National Emission Standard for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing, §63.2430 – 63.2550) of the National Emission Standards for Hazardous Air Pollutants (NESHAP) and shall apply to this source pursuant to LCO 10.9(4) “ffff” and 567 IAC 23.1 (4) “cf.” This unit has initially been determined to be a Group 2 continuous process vent.

Authority for Requirement: LCPH ATI 6443 / PTO 6507

**Operating Limits:**

A. This facility is limited to the following production amounts:

   i. A maximum of $316.5 \times 10^6$ gallons of 200° alcohol per 12-month rolling period.
   
   ii. A maximum of $82.4 \times 10^6$ gallons of 200° alcohol per calendar quarter.
   
   iii. A maximum of $332.3 \times 10^6$ gallons of completely denatured alcohol per 12-month rolling period.
   
   iv. A maximum of $86.5 \times 10^6$ gallons of completely denatured alcohol per calendar quarter.

B. The freshwater flow to the top bed of the scrubber shall be maintained at 131 gallons per minute or greater.

C. The recycled water flow to the bottom bed of the scrubber shall be maintained at 350 gallons per minute or greater.

D. If the recirculation rate operates below 350 gallons per minute, the fresh water flow to the scrubber shall be maintained at 245 gallons per minute or greater.

E. The differential pressure measured across the scrubber, CE-055, shall be maintained between 2 and 22 inches of water column during normal operations.

F. The differential pressure measured across the scrubber, CE-055, is not required to be monitored or maintained in the “normal operations” range when the blender rate (feedstock) drops below 2100 gallons per minute.

G. The owner or operator shall comply with all applicable requirements set forth in 40 CFR 63 Subpart A (40 CFR §63.1 through 40 CFR §63.15) and 40 CFR 63 Subpart FFFF (40 CFR §63.2430 through 40 CFR §63.2550).

H. The control equipment on this unit shall be maintained according to the manufacturer’s specification and good operating practices.

Authority for Requirement: LCPH ATI 6443 / PTO 6507
Operating Condition Monitoring and Recordkeeping:
Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives. Records shall be legible and maintained in an orderly manner. These records shall show the following:

A. The owner or operator shall monitor and record the fresh water flow rate to the top bed of the scrubber on a daily basis while the control equipment is in operation.
B. The owner or operator shall monitor and record the recycled water flow rate to the bottom bed of the scrubber on a daily basis while the control equipment is in operation.
C. The owner or operator shall monitor and record the differential pressure across the scrubber on a daily basis while the control equipment is in operation and the blender rate is 2100 gallons per minute or above.
D. The owner or operator shall monitor and record the daily blender (feedstock) rate.
E. The owner or operator shall calculate and record the amount of 200° alcohol and completely denatured alcohol produced monthly, per calendar quarter and 12-month rolling period.
F. The owner or operator shall comply with all applicable recordkeeping, notification, and reporting requirements as set forth in 40 CFR Subpart A (40 CFR §63.1 through 40 CFR §63.15) and 40 CFR Subpart FFFF (40 CFR §63.2515, 40 CFR §63.2520, 40 CFR §63.2525).

Authority for Requirement:  LCPH ATI 6443 / PTO 6507

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

Stack Height (ft, from ground):  123
Discharge Style:  Vertical, unobstructed
Stack Opening (inches, diameter):  30
Exhaust Temperature (°F):  85
Exhaust Flow rate (acfm):  35,838

Authority for Requirement:  LCPH ATI 6443 / PTO 6507

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 – Volatile Organic Compounds (VOC)\(^1\)
- 1st Stack Test to be Completed within the **first year** of permit term
- 2\(^{nd}\) Stack Test to be Completed between **2.5 years to 3.5 years** of permit term
- Test Method – Method 25A (40 CFR 60) or approved alternative
- Authority for Requirement: 567 IAC 22.108(3)

\(^1\) Testing shall be conducted during the months of June, July, or August. Semi-annual testing conducted to satisfy the compliance requirements of LCPH ATI 6443 / PTO 6507 can also satisfy the testing requirements of this operating permit so long as those tests are completed during the months of June, July, or August.

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)

Opacity monitoring is not required at this time.

**Agency Approved Operation & Maintenance Plan Required?**  Yes ☑  No ☐

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

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

\(^1\) Agency-approved operation & maintenance plan is required for VOC.

\(^2\) SEP-055 is subject to NESHAP Subpart FFFF, and is therefore exempt from CAM.

Authority for Requirement: 567 IAC 22.108(3)

Refer to Appendix A, Agency Approved O&M Plans, for the complete agency approved operation and maintenance plan.
Emission Point ID Number: SEP-057, SEP-058, SEP-059, SEP-060  
Process Area: ALCOHOL

Table Alcohol-1. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
<th>CE ID</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-057</td>
<td>EU-57</td>
<td>Yeast Propagator</td>
<td>Yeast Culture</td>
<td>14,381 gallons</td>
<td>CE-057</td>
<td>Wet Scrubber</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tank #1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEP-058</td>
<td>EU-58</td>
<td>Yeast Propagator</td>
<td>Yeast Culture</td>
<td>14,381 gallons</td>
<td>CE-058</td>
<td>Wet Scrubber</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tank #2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEP-059</td>
<td>EU-59</td>
<td>Yeast Propagator</td>
<td>Yeast Culture</td>
<td>14,381 gallons</td>
<td>CE-059</td>
<td>Wet Scrubber</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tank #3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEP-060</td>
<td>EU-60</td>
<td>Yeast Propagator</td>
<td>Yeast Culture</td>
<td>14,381 gallons</td>
<td>CE-060</td>
<td>Wet Scrubber</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tank #4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Applicable Requirements

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

Table Alcohol-2. Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>VOC</th>
<th>Permit #</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-057</td>
<td>EU-57</td>
<td>0.96 lb/hr(^1), 4.2 tpy(^1)</td>
<td>LCPH ATI 4676 / PTO 5481</td>
</tr>
<tr>
<td>SEP-058</td>
<td>EU-58</td>
<td>0.96 lb/hr(^1), 4.2 tpy(^1)</td>
<td>LCPH ATI 4677 / PTO 5482</td>
</tr>
<tr>
<td>SEP-059</td>
<td>EU-59</td>
<td>0.96 lb/hr(^1), 4.2 tpy(^1)</td>
<td>LCPH ATI 4678 / PTO 5483</td>
</tr>
<tr>
<td>SEP-060</td>
<td>EU-60</td>
<td>0.96 lb/hr(^1), 4.2 tpy(^1)</td>
<td>LCPH ATI 4679 / PTO 5484</td>
</tr>
</tbody>
</table>

\(^1\) This emission limit is for the combined emissions from EP 057 Yeast Propagator Tank 1, EP 058 Yeast Propagator Tank 2, EP 059 Yeast Propagator Tank 3 and EP 060 Yeast Propagator Tank 4.

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

Control Device:
A scrubber shall be installed to control VOC emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in “Operating Condition Monitoring and Recordkeeping” shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 4676 / PTO 5481  
LCPH ATI 4677 / PTO 5482  
LCPH ATI 4678 / PTO 5483  
LCPH ATI 4679 / PTO 5484

Operating Limits:
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:
A. This facility is limited to the following production amounts:

i. A maximum of $316.5 \times 10^6$ gallons of 200° alcohol per 12-month rolling period.

ii. A maximum of $82.4 \times 10^6$ gallons of 200° alcohol per calendar quarter.

iii. A maximum of $332.3 \times 10^6$ gallons of completely denatured alcohol per 12-month rolling period.

iv. A maximum of $86.5 \times 10^6$ gallons of completely denatured alcohol per calendar quarter.

B. The water flow rate in the scrubber shall be no less than 5% below the minimum water flow rate recorded during a successful compliance test for VOC emissions.

C. The scrubber on this unit shall be maintained according to the manufacturer's specifications and/or good operating practices.

Authority for Requirement: LCPH ATI 4676 / PTO 5481
LCPH ATI 4677 / PTO 5482
LCPH ATI 4678 / PTO 5483
LCPH ATI 4679 / PTO 5484

Operating Condition Monitoring & 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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. Monitor and record the water flow rate in the scrubber on a daily basis.

B. Record the amount of 200° alcohol and completely denatured alcohol produced. Calculate and record monthly, calendar quarter and 12-month rolling totals.

Authority for Requirement: LCPH ATI 4676 / PTO 5481
LCPH ATI 4677 / PTO 5482
LCPH ATI 4678 / PTO 5483
LCPH ATI 4679 / PTO 5484

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

Table Alcohol-3.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>LCPH ATI / PTO Numbers</th>
<th>Stack Characteristics</th>
<th>Stack Opening (feet, above ground)</th>
<th>Discharge Style</th>
<th>Exhaust Temp. (°F)</th>
<th>Exhaust Flow rate (scfm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-057</td>
<td>EU-57</td>
<td>4676 / 5481</td>
<td>Stack Height</td>
<td>49</td>
<td>Vertical, unobstructed</td>
<td>6</td>
<td>67</td>
</tr>
<tr>
<td>SEP-058</td>
<td>EU-58</td>
<td>4677 / 5482</td>
<td>Stack Height</td>
<td>49</td>
<td>Vertical, unobstructed</td>
<td>6</td>
<td>67</td>
</tr>
<tr>
<td>SEP-059</td>
<td>EU-59</td>
<td>4678 / 5483</td>
<td>Stack Height</td>
<td>49</td>
<td>Vertical, unobstructed</td>
<td>6</td>
<td>67</td>
</tr>
<tr>
<td>SEP-060</td>
<td>EU-60</td>
<td>4679 / 5484</td>
<td>Stack Height</td>
<td>49</td>
<td>Vertical, unobstructed</td>
<td>6</td>
<td>67</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**

Stack testing is not required at this time.

Opacity monitoring is not required at this time.

<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>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Facility Maintained Operation &amp; Maintenance Plan Required?</td>
<td>Yes</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)
**Emission Point ID Number:** SEP-069  
**Process Area:** ALCOHOL

**Associated Equipment**  
Associated Emission Unit ID Numbers: EU-69  
Emissions Control Equipment ID Number: CE-069  
Emissions Control Equipment Description: Packed Bed Scrubber

**Emission Unit vented through this Emission Point:** EU-69  
Emission Unit Description: 190 Product Scrubbing System  
Raw Material/Fuel: Ethanol, 190 Proof  
Rated Capacity: 36,130 gal/hr

---

**Applicable Requirements**

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

- **Pollutant:** Sulfur Dioxide (SO₂)  
  **Emission Limit:** 0.3 lb/hr  
  **Authority for Requirement:** LCPH ATI 6426 / PTO 6460

- **Pollutant:** Sulfur Dioxide (SO₂)  
  **Emission Limit:** 500 ppmv  
  **Authority for Requirement:** 567 IAC 23.3(3)"e"  
  **Authority for Requirement:** LCO 10.12(2)

- **Pollutant:** Volatile Organic Compounds (VOC)  
  **Emission Limit:** 2.0 lb/hr  
  **Authority for Requirement:** LCPH ATI 6426 / PTO 6460

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

**Control Device:**  
A packed bed scrubber shall be installed to control VOC and SO₂ emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

**Authority for Requirement:** LCPH ATI 6426 / PTO 6460
Operating Limits:
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

A. This facility is limited to the following production amounts:
   i. A maximum of 316.5 x 10^6 gallons of 200° alcohol per 12-month rolling period.
   ii. A maximum of 82.4 x 10^6 gallons of 200° alcohol per calendar quarter.
   iii. A maximum of 332.3 x 10^6 gallons of completely denatured alcohol per 12-month rolling period.
   iv. A maximum of 86.5 x 10^6 gallons of completely denatured alcohol per calendar quarter.

B. The fresh water flow rate in the scrubber shall be maintained at a minimum of 19.2 gallons per minute at all times while the unit is in operation.

C. The differential pressure measured across the packed bed scrubber, CE-069, shall be maintained between 0.2 inches of water and 10 inches of water column with the exception of unit startup.

D. The control equipment shall be maintained according to the manufacturer’s specifications and good operating practices.

E. The owner or operator shall comply with all applicable requirements set forth in NESHAP Subparts A (40 CFR §63.1 through 40 CFR §63.15) and FFFF (40 CFR §63.2430 through 40 CFR §63.2550).

F. The owner or operator shall maintain the control equipment according to manufacturer’s specification and maintenance schedule.

Authority for Requirement:  LCPH ATI 6426 / PTO 6460

Operating Condition Monitoring & 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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives. Records shall be legible and maintained in an orderly manner. These records shall show the following:

A. Monitor and record the scrubber water flow rate on a daily basis while the control equipment and emission unit are in operation.

B. Monitor and record the differential pressure on the wet scrubber on a weekly basis while the control equipment and emission unit are in operation. If the pressure drop deviates from the 0.2 to 10 INWC range then an inspection of the system shall be completed and any observations, unusual process conditions, and corrective actions shall be recorded.

C. The owner or operator shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the control device.

D. Calculate and record monthly the amount of 200° alcohol produced per calendar quarter and 12-month rolling period.

E. Calculate and record monthly the amount of completely denatured alcohol produced per calendar quarter and 12-month rolling period.
F. The owner or operator shall comply with all applicable recordkeeping, notification, and reporting requirements as set forth in NESHAP Subparts A (40 CFR §63.1 through 40 CFR §63.15) and FFFF (40 CFR §63.2515, 40 CFR §63.2520, and 40 CFR §63.2525).

Authority for Requirement: LCPH ATI 6426 / PTO 6460

**Emission Point Characteristics**

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

- Stack Height, (ft, from the ground): 115
- Discharge Style: Vertical, obstructed
- Stack Opening, (inches, diameter): 8
- Exhaust Temperature (°F): 70
- Exhaust Flow Rate (scfm): 336

Authority for Requirement: LCPH ATI 4682 / PTO 6460

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

Source testing is not required for this source at this time.

- **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:** SEP-070  
**Process Area:** ALCOHOL

**Associated Equipment**  
**Associated Emission Unit ID Numbers:** EU-70  
**Emissions Control Equipment ID Number:** CE-070  
**Emissions Control Equipment Description:** 200 Product Scrubbing System

---

**Emission Unit vented through this Emission Point:** EU-70  
**Emission Unit Description:** 200 Product Scrubbing System  
**Raw Material/Fuel:** Ethanol, 200 Proof  
**Rated Capacity:** 36,130.14 gal/hr

---

**Applicable Requirements**

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

**Pollutant:** Volatile Organic Compounds (VOC)  
**Emission Limit(s):** 1.05 lb/hr  
**Authority for Requirement:** LCPH ATI 6057 / PTO 6333

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

**Control Device:**  
A wet scrubber shall be installed to control VOC emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.  
**Authority for Requirement:** LCPH ATI 6057 / PTO 6333

**Operating Limits:**

A. This facility is limited to the following production amounts:
   
i. A maximum of 316.5 x 10^6 gallons of 200° alcohol per 12-month rolling period.  
   ii. A maximum of 82.4 x 10^6 gallons of 200° alcohol per calendar quarter.  
   iii. A maximum of 332.3 x 10^6 gallons of completely denatured alcohol per 12-month rolling period.  
   iv. A maximum of 86.5 x 10^6 gallons of completely denatured alcohol per calendar quarter.

B. The scrubber shall only use fresh water and have a minimum flow rate of 19 gallons per minute.
C. The scrubber on this unit shall be maintained according to the manufacturer's specifications and/or good operating practices.

D. The differential pressure across the scrubber shall be maintained between 1 and 12 inches of water column.

Authority for Requirement: LCPH ATI 6057 / PTO 6333

**Operating Condition Monitoring & 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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. Monitor and record the fresh water flow rate in the scrubber on a weekly basis.

B. Monitor and record the pressure drop across the scrubber on a weekly basis.

C. Calculate and record monthly the amount of 200° alcohol produced per calendar quarter and 12-month rolling period.

D. Calculate and record monthly the amount of completely denatured alcohol produced per calendar quarter and 12-month rolling period.

Authority for Requirement: LCPH ATI 6057 / PTO 6333

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

Stack Height, (ft, from the ground): 96
Discharge Style: Vertical, with spark arrestor
Stack Opening, (inches, diameter): 8
Exhaust Temperature (°F): 60
Exhaust Flow Rate (acfm): 392

Authority for Requirement: LCPH ATI 6057 / PTO 6333

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator 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 is not required at this time.

Opacity monitoring is not required at this time.

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: SEP-071, SEP-072, SEP-075, SEP-077, SEP-080, SEP-081, SEP-082
Process Area: ALCOHOL

Table Alcohol-4. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material / Fuel</th>
<th>Rated Capacity</th>
<th>CE ID</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-071</td>
<td>EU-71</td>
<td>#1 Alcohol Storage Tank</td>
<td>CDA</td>
<td>500,000 gallons</td>
<td>CE-071</td>
<td>Internal Floating Roof Seal</td>
</tr>
<tr>
<td>SEP-072</td>
<td>EU-72</td>
<td>#2 Alcohol Storage Tank</td>
<td>CDA</td>
<td>500,000 gallons</td>
<td>CE-072</td>
<td>Internal Floating Roof Seal</td>
</tr>
<tr>
<td>SEP-075</td>
<td>EU-75</td>
<td>#2 Hi-Wine Transfer Tank</td>
<td>Ethanol, 200 Proof</td>
<td>200,000 gallons</td>
<td>CE-075</td>
<td>Internal Floating Roof Seal</td>
</tr>
<tr>
<td>SEP-077</td>
<td>EU-77</td>
<td>Corrosion Inhibitor Tank</td>
<td>Corrosion Inhibitor</td>
<td>8,761 gallons</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>SEP-080</td>
<td>EU-80</td>
<td>#3 Hi-Wine Process Tank</td>
<td>Ethanol, 200 Proof</td>
<td>200,000 gallons</td>
<td>CE-080</td>
<td>Internal Floating Roof Seal</td>
</tr>
<tr>
<td>SEP-081</td>
<td>EU-81</td>
<td>Fusel Oil Tank</td>
<td>Fusel Oil</td>
<td>16,920 gallons</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>SEP-082</td>
<td>EU-82</td>
<td>190 Proof Storage Tank</td>
<td>Ethanol, 190 Proof</td>
<td>154,224 gallons</td>
<td>None</td>
<td>None</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 Alcohol-5. Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>VOC</th>
<th>LCPH Permit #</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-071</td>
<td>EU-71</td>
<td>None</td>
<td>ATI 4684 / PTO 5295</td>
</tr>
<tr>
<td>SEP-072</td>
<td>EU-72</td>
<td>None</td>
<td>ATI 4685 / PTO 5296</td>
</tr>
<tr>
<td>SEP-075</td>
<td>EU-75</td>
<td>None</td>
<td>ATI 4688 / PTO 5299</td>
</tr>
<tr>
<td>SEP-077</td>
<td>EU-77</td>
<td>None</td>
<td>ATI 4690 / PTO 5300</td>
</tr>
<tr>
<td>SEP-080</td>
<td>EU-80</td>
<td>None</td>
<td>ATI 4691 / PTO 5301</td>
</tr>
<tr>
<td>SEP-081</td>
<td>EU-81</td>
<td>None</td>
<td>ATI 4692 / PTO 5302</td>
</tr>
<tr>
<td>SEP-082</td>
<td>EU-82</td>
<td>None</td>
<td>ATI 4693 / PTO 5303</td>
</tr>
</tbody>
</table>

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.
Control Device:
An internal floating roof shall be installed to control VOC emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 4684 / PTO 5295
LCPH ATI 4685 / PTO 5296
LCPH ATI 4688 / PTO 5299
LCPH ATI 4691 / PTO 5301

NSPS and NESHAP Applicability:
In general, the federal standards of performance for new stationary sources (new source performance standards) shall be applicable as specified in LCO 10.9.2 and 567 IAC 23.1(2). The federal standards for hazardous air pollutants (National Emission Standards for Hazardous Air Pollutants) shall be applicable as specified in LCO 10.9.3 and 567 IAC 23.1(3). The federal standards for hazardous air pollutants for source categories (National Emission Standards for Hazardous Air Pollutants for source categories) shall be applicable as specified in LCO 10.9.4 and 567 IAC 23.1(4).

A. The New Source Performance Standards (NSPS) Subpart A, General Provisions, and Subpart VV, Standards of Performance for Equipment Leaks of VOC in Synthetic Organic Chemicals Manufacturing, shall apply to this source pursuant to LCO 10.9(2)(a) "40” and 567 IAC 23.1(2)"n.”

B. This source is not subject to a NESHAP at this time.

Authority for Requirement: LCPH ATI 4684 / PTO 5295
LCPH ATI 4685 / PTO 5296
LCPH ATI 4688 / PTO 5299
LCPH ATI 4690 / PTO 5300
LCPH ATI 4691 / PTO 5301
LCPH ATI 4692 / PTO 5302
LCPH ATI 4693 / PTO 5303
LCO 10.9(2)(a)“40”
567 IAC 23.1(2)“n”
40 CFR 60 Subpart VV

Operating Limits:
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

A. This facility shall comply with the requirements of NSPS Subpart VV by meeting the standards of 40 CFR §60.482-1 through 40 CFR §60.485.

B. This facility is limited to the following production amounts:

i. A maximum of 316.5 x 10^6 gallons of 200° alcohol per 12-month rolling period.
ii. A maximum of 82.4 x 10^6 gallons of 200° alcohol per calendar quarter.
iii. A maximum of 332.3 x 10^6 gallons of completely denatured alcohol per 12-month rolling period.
iv. A maximum of $86.5 \times 10^6$ gallons of completely denatured alcohol per calendar quarter.

Authority for Requirement: LCPH ATI 4684 / PTO 5295
LCPH ATI 4685 / PTO 5296
LCPH ATI 4688 / PTO 5299
LCPH ATI 4690 / PTO 5300
LCPH ATI 4691 / PTO 5301
LCPH ATI 4692 / PTO 5302
LCPH ATI 4693 / PTO 5303

**Operating Condition Monitoring and Recordkeeping:**
All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. Recordkeeping for NSPS Subpart VV shall be done according to 40 CFR §60.486.

B. Reporting for NSPS Subpart VV shall be done according to 40 CFR §60.487.

C. Record the amount of $200^\circ$ alcohol and completely denatured alcohol produced. Calculate and record monthly, calendar quarter and 12-month rolling totals.

Authority for Requirement: LCPH ATI 4684 / PTO 5295
LCPH ATI 4685 / PTO 5296
LCPH ATI 4688 / PTO 5299
LCPH ATI 4690 / PTO 5300
LCPH ATI 4691 / PTO 5301
LCPH ATI 4692 / PTO 5302
LCPH ATI 4693 / PTO 5303
LCO 10.9(2)(a)“40”
567 IAC 23.1(2)”n”
40 CFR 60 Subpart VV

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

**Table Alcohol-6.**

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>LCPH ATI / PTO Numbers</th>
<th>Stack Height (ft, above ground)</th>
<th>Discharge Style</th>
<th>Stack Opening (inches, dia.)</th>
<th>Exhaust Temp. (°F)</th>
<th>Exhaust Flow Rate (scfm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-071</td>
<td>EU-71</td>
<td>4684 / 5295</td>
<td>42</td>
<td>Horizontal</td>
<td>4 vents at 24&quot; x 10&quot;</td>
<td>80</td>
<td>Passive displacement</td>
</tr>
<tr>
<td>SEP-072</td>
<td>EU-72</td>
<td>4685 / 5296</td>
<td>42</td>
<td>Horizontal</td>
<td>4 vents at 24&quot; x 10&quot;</td>
<td>80</td>
<td>Passive displacement</td>
</tr>
<tr>
<td>SEP-075</td>
<td>EU-75</td>
<td>4688 / 5299</td>
<td>32</td>
<td>Horizontal</td>
<td>3 vents at 24&quot; x 10&quot;</td>
<td>89</td>
<td>Passive displacement</td>
</tr>
<tr>
<td>EP</td>
<td>EU</td>
<td>LCPH ATI / PTO Numbers</td>
<td>Stack Characteristics</td>
<td>Stack Height (ft, above ground)</td>
<td>Discharge Style</td>
<td>Stack Opening (inches, dia.)</td>
<td>Exhaust Temp. (°F)</td>
</tr>
<tr>
<td>-------</td>
<td>------</td>
<td>------------------------</td>
<td>-----------------------</td>
<td>----------------------------------</td>
<td>-----------------------------------</td>
<td>-----------------------------</td>
<td>--------------------</td>
</tr>
<tr>
<td>SEP-077</td>
<td>EU-77</td>
<td>4690 / 4300</td>
<td>17</td>
<td>Vertical w/ obstructing rain cap</td>
<td>3</td>
<td>Ambient</td>
<td>Passive displacement</td>
</tr>
<tr>
<td>SEP-080</td>
<td>EU-80</td>
<td>4691 / 5301</td>
<td>17</td>
<td>Vertical w/ obstructing rain cap</td>
<td>3 vents at 24&quot; x 10&quot;</td>
<td>70</td>
<td>Passive displacement</td>
</tr>
<tr>
<td>SEP-081</td>
<td>EU-81</td>
<td>4692 / 5302</td>
<td>17</td>
<td>Vertical w/ obstructing rain cap</td>
<td>4</td>
<td>Ambient</td>
<td>Passive displacement</td>
</tr>
<tr>
<td>SEP-082</td>
<td>EU-82</td>
<td>4693 / 5303</td>
<td>44</td>
<td>Vertical w/ obstructing rain cap</td>
<td>4</td>
<td>89</td>
<td>Passive displacement</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.*

Stack testing is not required at this time.

Opacity monitoring is not required at this time.

**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: SEP-073, SEP-074
Process Area: ALCOHOL

Table Alcohol-7. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material / Fuel</th>
<th>Rated Capacity</th>
<th>CE ID</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-073</td>
<td>EU-73</td>
<td>#3 Alcohol Storage Tank</td>
<td>CDA</td>
<td>1,000,000 gallons</td>
<td>CE-073</td>
<td>Internal Floating Roof</td>
</tr>
<tr>
<td>SEP-074</td>
<td>EU-74</td>
<td>Denaturant Storage Tank</td>
<td>Denaturant</td>
<td>200,000 gallons</td>
<td>CE-074</td>
<td>Internal Floating Roof</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 Alcohol-8. Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>VOC</th>
<th>LCPH Permit #</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-073</td>
<td>EU-73</td>
<td>None</td>
<td>ATI 4686 / PTO 5297</td>
</tr>
<tr>
<td>SEP-074</td>
<td>EU-74</td>
<td>0.27 lb/hr, 1.19 tpy</td>
<td>ATI 4687 / PTO 5298</td>
</tr>
</tbody>
</table>

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

Control Device:
An internal floating roof shall be installed to control VOC emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 4686 / PTO 5297  
LCPH ATI 4687 / PTO 5298

NSPS and NESHAP Applicability:
In general, the federal standards of performance for new stationary sources (new source performance standards) shall be applicable as specified in LCO 10.9.2 and 567 IAC 23.1(2). The federal standards for hazardous air pollutants (national emission standards for hazardous air pollutants) shall be applicable as specified in LCO 10.9.3 and 567 IAC 23.1(3). The federal standards for hazardous air pollutants for source categories (national emission standards for hazardous air pollutants for source categories) shall be applicable as specified in LCO 10.9.4 and 567 IAC 23.1(4).

A. The New Source Performance Standards (NSPS) Subpart VV, Standards of Performance for Equipment Leaks of VOC in Synthetic Organic Chemicals Manufacturing, shall apply to this source pursuant to LCO 10.9(2)(a) “40” and 567 IAC 23.1(2)”n.”
B. The New Source Performance Standards (NSPS) Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984 shall apply to this source pursuant to LCO 10.9(2)(a) “56” and 567 IAC 23.1(2) “ddd.”

C. This source is not subject to a NESHAP at this time.

Authority for Requirement:   LCPH ATI 4686 / PTO 5297  
LCPH ATI 4687 / PTO 5298  
LCO 10.9(2)(a)“40”  
LCO 10.9(2)(a)“56”  
567 IAC 23.1(2)”n”  
567 IAC 23.1(2)“ddd”  
40 CFR 60 Subpart VV  
40 CFR 60 Subpart Kb

**Operating Limits:**

A. This facility shall comply with the requirements of NSPS Subpart VV by meeting the standards of 40 CFR §60.482-1 through 40 CFR §60.485.

B. This facility shall comply with the requirements of NSPS Subpart Kb by meeting the standards of 40 CFR §60.112b and the testing and procedures of 40 CFR §60.113b.

C. This facility is limited to the following production amounts:

i. A maximum of 316.5 x 10^6 gallons of 200° alcohol per 12-month rolling period.

ii. A maximum of 82.4 x 10^6 gallons of 200° alcohol per calendar quarter.

iii. A maximum of 332.3 x 10^6 gallons of completely denatured alcohol per 12-month rolling period.

iv. A maximum of 86.5 x 10^6 gallons of completely denatured alcohol per calendar quarter.

Authority for Requirement:   LCPH ATI 4686 / PTO 5297  
LCPH ATI 4687 / PTO 5298  
LCO 10.9(2)(a)“40”  
LCO 10.9(2)(a)“56”  
567 IAC 23.1(2)”n”  
567 IAC 23.1(2)“ddd”  
40 CFR 60 Subpart VV  
40 CFR 60 Subpart Kb

**Operating Condition Monitoring and Recordkeeping:**

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. Recordkeeping for NSPS Subpart VV shall be done according to 40 CFR §60.486.

B. Reporting for NSPS Subpart VV shall be done according to 40 CFR §60.487.

C. Recordkeeping for NSPS Subpart Kb shall be done according to 40 CFR §60.115b and 40 CFR §60.116b.
D. Reporting for NSPS Subpart Kb shall be done according to 40 CFR §60.115b.
E. Record the amount of 200° alcohol and completely denatured alcohol produced. Calculate and record monthly, calendar quarter and 12-month rolling totals.

Authority for Requirement: LCPH ATI 4686 / PTO 5297
LCPH ATI 4687 / PTO 5298
LCO 10.9(2)(a)“40”
LCO 10.9(2)(a)“56”
567 IAC 23.1(2)“n”
567 IAC 23.1(2)“ddd”
40 CFR 60 Subpart Kb
40 CFR 60 Subpart VV

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

**Table Alcohol-9.**

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>LCPH ATI / PTO #</th>
<th>Stack Characteristics</th>
<th>Stack Opening (inches, dia.)</th>
<th>Exhaust Temp. (°F)</th>
<th>Exhaust Flow Rate (scfm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-073</td>
<td>EU-73</td>
<td>4686 / 5297</td>
<td>48</td>
<td>Horizontal</td>
<td>6 vents at 24&quot; x 10&quot;</td>
<td>80</td>
</tr>
<tr>
<td>SEP-074</td>
<td>EU-74</td>
<td>4687 / 5298</td>
<td>32</td>
<td>Horizontal</td>
<td>4 vents at 24&quot; x 10&quot;</td>
<td>Ambient</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.*

Stack testing is not required at this time.
Opacity monitoring is not required at this time.

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

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: SEP-076
Process Area: ALCOHOL LOADOUT

Associated Equipment
Associated Emission Unit ID Numbers: EU-76
Emissions Control Equipment ID Number: CE-076
Emissions Control Equipment Description: Flare

Emission Unit vented through this Emission Point: EU-76A
Emission Unit Description: Alcohol Loadout
Raw Material/Fuel: Completely Denatured Alcohol
Rated Capacity: 270,000 gal/hr

Emission Unit vented through this Emission Point: EU-76B
Emission Unit Description: Alcohol Loadout Flare
Raw Material/Fuel: Natural Gas
Rated Capacity: 0.00276 MMscf/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): 20%
Authority for Requirement: LCPH ATI 4689 / PTO 5017

Pollutant: Opacity
Emission Limit(s): 40%
Authority for Requirement: DNR PSD Permit 04-A-314P

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: LCPH ATI 4689 / PTO 5017
DNR PSD Permit 04-A-314P
567 IAC 23.3(2)"a"(2)
LCO 10.9(1)"a"

Pollutant: Sulfur Dioxide (SO2)
Emission Limit(s): 0.02 lb/hr, 0.09 tpy
Authority for Requirement: LCPH ATI 4689 / PTO 5017
DNR PSD Permit 04-A-314P

Pollutant: Sulfur Dioxide (SO2)
Emission Limit(s): 500 ppmv
Authority for Requirement: LCPH ATI 4689 / PTO 5017
Pollutant: Nitrogen Oxides (NOx)
Emission Limit(s): 0.15 lb/MMBtu, 4.05 lb/hr, 3.94 tpy
Authority for Requirement: LCPH ATI 4689 / PTO 5017
DNR PSD Permit 04-A-314P

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 95% reduction, 4.82 lb/hr, 12.2 tpy
Authority for Requirement: LCPH ATI 4689 / PTO 5017
DNR PSD Permit 04-A-314P

1 All emission limitations (including operating parameter ranges and limits) apply at all times when the process equipment is operating, except, in the case of process equipment or pollution control systems, during previously planned startup and shutdown periods (including planned maintenance periods), and malfunctions as defined in 40 CFR Part 63. These startup and shutdown periods shall not exceed the minimum amount of time necessary for these events, and during these events, ADM shall minimize emissions to the extent practicable. To the extent practicable, startup and shutdown of pollution control systems will be performed during times when the process equipment is also shut down. Also, ADM shall to the extent practicable, control emissions during a malfunction event in a manner consistent with good air pollution control practice for minimizing emissions. *ADM Consent Decree, Cedar Rapids Control Technology Plan Section 7.0, Footnote 1.* Negotiated under United States v. ADM (C.D. IL, No. 03-CF-2066)

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

**Operational Limits & Requirements**

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

**Control Device:**
A flare shall be used to control VOC emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 4689 / PTO 5017

**NSPS and NESHAP Applicability:**
This unit is subject to NSPS Subpart A, General Provisions, and Subpart VV, Standards of Performance for Equipment Leaks of VOC in Synthetic Organic Chemicals Manufacturing.

This unit is not subject to NESHAP requirements at this time.
Operating Limits:
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

A. This facility shall comply with the requirements of NSPS Subpart VV by meeting the standards of 40 CFR §60.482-1 through 40 CFR §60.485.

B. This facility is limited to the following production amounts:
   i. A maximum of 316.5 x 10^6 gallons of 200° alcohol per 12-month rolling period.
   ii. A maximum of 82.4 x 10^6 gallons of 200° alcohol per calendar quarter.
   iii. A maximum of 332.3 x 10^6 gallons of completely denatured alcohol per 12-month rolling period.
   iv. A maximum of 86.5 x 10^6 gallons of completely denatured alcohol per calendar quarter.

C. This flare shall be designed and operated to achieve a minimum of 95% reduction of VOC emissions from the rail and truck loadout operations.

D. This flare shall use only natural gas or propane as the auxiliary fuel.

Operating Condition Monitoring and Recordkeeping:
All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. Recordkeeping for NSPS Subpart VV shall be done according to 40 CFR §60.486.

B. Reporting for NSPS Subpart VV shall be done according to 40 CFR §60.487.

C. The loadout flare shall be monitored continuously for the presence of the pilot flame. Loadout operations shall be discontinued any time the pilot flame is out.

D. Record the amount of 200° alcohol and completely denatured alcohol produced. Calculate and record monthly, calendar quarter and 12-month rolling totals.

E. Record the amount of natural gas and propane used in this flare. Calculate and record monthly and 12-month rolling totals.
Emission Point Characteristics

The emission point shall conform to the specifications listed below:

Stack Height, (ft, from the ground): 40
Discharge Style: Vertical, unobstructed
Stack Opening, (inches, diameter): 72
Exhaust Temperature (°F): 1400
Exhaust Flow Rate (acfm): 61,000

Authority for Requirement: LCPH ATI 4689 / PTO 5017
DNR PSD Permit 04-A-314P

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 is not required at this time.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >20% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes ☑ No ☐
Facility Maintained Operation & Maintenance Plan Required? Yes ☑ No ☐
Compliance Assurance Monitoring (CAM) Plan Required? Yes ☑ No ☐
Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source’s compliance with the applicable requirements.

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

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

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: SEP-250, SEP-251, SEP-252
Process Area: ALCOHOL

Table Alcohol-10. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material / Fuel</th>
<th>Rated Capacity</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-250</td>
<td>EU-250</td>
<td>Alcohol Collection Blower #1</td>
<td>Soil Vapor</td>
<td>212 acfm @ 100°F</td>
<td>None</td>
</tr>
<tr>
<td>SEP-251</td>
<td>EU-251</td>
<td>Alcohol Collection Blower #2</td>
<td>Soil Vapor</td>
<td>212 acfm @ 100°F</td>
<td>None</td>
</tr>
<tr>
<td>SEP-252</td>
<td>EU-252</td>
<td>Alcohol Collection Blower #3</td>
<td>Soil Vapor</td>
<td>212 acfm @ 100°F</td>
<td>None</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 Alcohol-11. Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>VOC</th>
<th>LCPH Permit #</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-250</td>
<td>EU-250</td>
<td>1.27 lb/hr</td>
<td>ATI 6505 / PTO 6334</td>
</tr>
<tr>
<td>SEP-251</td>
<td>EU-251</td>
<td>1.27 lb/hr</td>
<td>ATI 6506 / PTO 6335</td>
</tr>
<tr>
<td>SEP-252</td>
<td>EU-252</td>
<td>1.27 lb/hr</td>
<td>ATI 6507 / PTO 6336</td>
</tr>
</tbody>
</table>

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

There are no operating limits or recordkeeping requirements for this source.

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

Table Alcohol-12.

| EP      | EU   | LCPH ATI / PTO Numbers | Stack Characteristics | Stack Characteristics | Stack Characteristics | Stack Characteristics | Stack Characteristics | Stack Characteristics |
|---------|------|------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| SEP-250 | EU-250 | 6505/6334            | Stack Height (ft, above ground) | Discharge Style | Stack Opening (inches, dia.) | Exhaust Temp. (°F) | Exhaust Flow Rate (acfm) |
| SEP-251 | EU-251 | 6506/6335            | 13                    | 2                     | 100                   | 2                     | 212                   |
| SEP-252 | EU-252 | 6507/6336            | 13                    | 2                     | 100                   | 2                     | 212                   |

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 is not required at this time.

Opacity monitoring is not required at this time.

- **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: SEP-002
Process Area: STARCH

Table Starch-1. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material / Fuel</th>
<th>Rated Capacity</th>
<th>CE ID</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-002</td>
<td>EU-002A</td>
<td>Starch Drying – Spray Dryer</td>
<td>Starch Slurry</td>
<td>50,000 lb/hr</td>
<td>CE-002A</td>
<td>Multivane Scrubber</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CE-002B</td>
<td>Multivane Scrubber</td>
</tr>
<tr>
<td>SEP-002</td>
<td>EU-002B</td>
<td>Starch Drying – Natural Gas</td>
<td>Natural Gas</td>
<td>0.05 MMCF/hr</td>
<td>CE-002A</td>
<td>Multivane Scrubber</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CE-002B</td>
<td>Multivane Scrubber</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): 10%
Authority for Requirement: LCPH ATI 3446 / PTO 3497

Pollutant: PM10
Emission Limit(s): 2.0 lb/hr, 8.9 tpy
Authority for Requirement: LCPH ATI 3446 / PTO 3497

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.4(7)  
LCO 10.9(1) "g"

Pollutant: Sulfur Dioxide (SO2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"  
LCO 10.12(2)

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

Control Device:
Two wet scrubbers operating in parallel shall be used to control particulate emissions. The control devices shall be operated at all times when any equipment controlled by the control device is operating. The control device shall be maintained on this source in a good operating condition at all times.
All appropriate probes and gauges needed to measure the parameters outlined in "Compliance Testing and Monitoring" shall be installed and maintained in a good operating condition.

Authority for Requirement: LCPH ATI 3446 / PTO 3497

**Operating Limits:**

A. This unit is not conditioned to anything less than the maximum operating capacity of the device.
   - Dryer Design Rate: 50,000 lb/hr corn starch
   - Dryer Design Rate: 50 MMBtu/hr
   - Maximum Exhaust Airflow Rate: 125,000 dscfm

B. The water flow rate to the scrubbers shall be maintained at a minimum of 165 gallons per minute.

C. The dryer shall be limited to the production of common starch only and shall not be used for the production of modified starch.

D. The dryer shall burn only natural gas.

Authority for Requirement: LCPH ATI 3446 / PTO 3497

**Compliance Testing and Monitoring Requirements:**

The following information shall be monitored:

A. Monthly process rate for dryer
B. Monthly natural gas consumption
C. Daily pressure drop
D. Daily scrubber water flow rates
E. All monitors shall be easily accessible to air pollution personnel.

Authority for Requirement: LCPH ATI 3446 / PTO 3497

**Recordkeeping Requirements:**

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. Monthly process rate for dryer
B. Monthly natural gas consumption
C. Daily pressure drop readings
D. Daily scrubber water flow rate readings
E. Any changes in operation that would affect emissions, including changes in fan speed
F. Records of all maintenance and repair completed on the control device

Copies of test results shall be retained until a new approved representative test is conducted or for five years, whichever is longer.
These records shall be available on-site at all times for viewing by air pollution control personnel.

Authority for Requirement: LCPH ATI 3446 / PTO 3497

**Reporting:**
Submit quarterly emissions report summarizing the following items by the 15th of each month for the previous quarter.

A. Monthly average drying rate
B. Monthly natural gas consumption

Authority for Requirement: LCPH ATI 3446 / PTO 3497

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

**Opacity Monitoring:**
The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >10 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

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

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on-site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility’s implementation of its obligation to operate according to good air pollution control practice.
Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: SEP-003, SEP-004  
Process Area: STARCH

Table Starch-2. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
<th>CE ID</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-003</td>
<td>EU-3</td>
<td>Starch Loadout #1</td>
<td>Dry Starch</td>
<td>180,000 lb/hr</td>
<td>CE-003</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-004</td>
<td>EU-4</td>
<td>Starch Loadout #2</td>
<td>Dry Starch</td>
<td>180,000 lb/hr</td>
<td>CE-004</td>
<td>Baghouse</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 Starch-3. Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Pollutant</th>
<th>Emission Limit(s)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-003</td>
<td>EU-3</td>
<td>Opacity</td>
<td>20%</td>
<td>ATI 3557 / PTO 3498</td>
</tr>
<tr>
<td>SEP-004</td>
<td>EU-4</td>
<td></td>
<td></td>
<td>ATI 3558 / PTO 3499</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PM10</td>
<td>0.10 lb/hr, 0.44 tpy</td>
<td>ATI 3557 / PTO 3498</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>ATI 3558 / PTO 3499</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PM</td>
<td>0.1 gr/dscf</td>
<td>567 IAC 23.4(7)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LCO 10.9(1)&quot;g”</td>
</tr>
</tbody>
</table>

Operational Limits & Requirements

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

Control Device:

A baghouse shall be used to control particulate emissions. The control device shall be operated at all times when any equipment controlled by the control device is operating. The control device shall be maintained on this source in good operating condition at all times.

All appropriate probes and gauges needed to measure the parameters for compliance testing shall be installed and maintained in a good operating condition.

Authority for Requirement: LCPH ATI 3557 / PTO 3498
LCPH ATI 3558 / PTO 3499
Operating Limits:
A. This unit is not conditioned to anything less than the maximum operating capacity of the device.
B. Loadout rate: 180,000 lb/hr
C. Maximum exhaust airflow rate: 1579 scfm (1640 acfm)

Note: This source exhausts into an enclosed structure eliminating any potential uncontrolled release to the atmosphere.

Authority for Requirement: LCPH ATI 3557 / PTO 3498
LCPH ATI 3558 / PTO 3499

Recordkeeping Requirements:
All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. Any changes in operation that would affect emissions, including changes in fan speed.
B. Records of all maintenance and repair completed on the control device.
C. Copies of test results shall be retained until a new approved representative test is conducted or for five years, whichever is longer.
D. These records shall be available on-site at all times for viewing by air pollution control personnel.

Authority for Requirement: LCPH ATI 3557 / PTO 3498
LCPH ATI 3558 / PTO 3499

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

Stack testing is not required at this time.

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >20% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.
Authority for Requirement: 567 IAC 22.108(14)

<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:** SEP-007  
**Process Area:** STARCH

**Associated Equipment**  
**Associated Emission Unit ID Numbers:** EU-7  
**Emissions Control Equipment ID Number:** CE-007  
**Emissions Control Equipment Description:** Baghouse

Emission Unit vented through this Emission Point: EU-7  
Emission Unit Description: Starch Transfer and Loadout  
Raw Material/Fuel: Dry Starch  
Rated Capacity: 50,000 lb/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):** 20%  
  **Authority for Requirement:** LCPH ATI 3559 / PTO 3500  
  LCO 10.7

- **Pollutant:** PM$_{10}$  
  **Emission Limit(s):** 0.27 lb/hr, 1.18 tpy  
  **Authority for Requirement:** LCPH ATI 3559 / PTO 3500

- **Pollutant:** Particulate Matter  
  **Emission Limit(s):** 0.1 gr/dscf  
  **Authority for Requirement:** 567 IAC 23.4(7)  
  LCO 10.9(1)"g"

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

**Control Device:**  
A baghouse shall be used to control particulate emissions. The control device shall be operated at all times when any equipment controlled by the control device is operating. The control device shall be maintained on this source in a good operating condition at all times.

All appropriate probes and gauges needed to measure the parameters for compliance testing shall be installed and maintained in a good operating condition.

**Authority for Requirement:** LCPH ATI 3559 / PTO 3500
**Operating Limits:**

A. This unit is not conditioned to anything less than the maximum capacity of the device.

B. Loadout rate: 50,000 lb/hr

C. Maximum exhaust airflow rate: 2000 scfm

Authority for Requirement: LCPH ATI 3559 / PTO 3500

**Compliance Testing and Monitoring Requirements:**

The following information shall be monitored:

A. Daily pressure drop readings when operating

B. All monitors shall be easily accessible to air pollution personnel.

Authority for Requirement: LCPH ATI 3559 / PTO 3500

**Recordkeeping Requirements:**

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. Daily pressure drop readings

B. Any changes in operation that would affect emissions, including changes in fan speed

C. Records of all maintenance and repair completed on the control device

Copies of test results shall be retained until a new approved representative test is conducted or for five years, whichever is longer.

These records shall be available on-site at all times for viewing by air pollution control personnel.

Authority for Requirement: LCPH ATI 3559 / PTO 3500

**Monitoring Requirements**

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

Stack testing is not required at this time.

**Opacity Monitoring:**

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to
retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

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

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: SEP-120, SEP-123, SEP-126, SEP-127, SEP-128, SEP-130
Process Area: MALTODEXTRIN

Table Maltodextrin-1. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
<th>CE ID</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-120</td>
<td>EU-120</td>
<td>Maltodextrin Storage Bin #6</td>
<td>Maltodextrin</td>
<td>6 ton/hr</td>
<td>CE-120</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-123</td>
<td>EU-123</td>
<td>Maltodextrin Storage Bin #5</td>
<td>Maltodextrin</td>
<td>6 ton/hr</td>
<td>CE-123</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-126</td>
<td>EU-126</td>
<td>Maltodextrin Storage Bin #4</td>
<td>Maltodextrin</td>
<td>6 ton/hr</td>
<td>CE-126</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-127</td>
<td>EU-127</td>
<td>Maltodextrin Storage Bin #3</td>
<td>Maltodextrin</td>
<td>6 ton/hr</td>
<td>CE-127</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-128</td>
<td>EU-128</td>
<td>Maltodextrin Storage Bin #2</td>
<td>Maltodextrin</td>
<td>6 ton/hr</td>
<td>CE-128</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-130</td>
<td>EU-130</td>
<td>Maltodextrin Storage Bin #1</td>
<td>Maltodextrin</td>
<td>6 ton/hr</td>
<td>CE-130</td>
<td>Baghouse</td>
</tr>
</tbody>
</table>

Applicable Requirements

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

Table Maltodextrin-2. Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Opacity</th>
<th>PM / PM-10</th>
<th>Permit #</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-120</td>
<td>EU-120</td>
<td>20%</td>
<td>0.015 gr/scf, 0.10 lb/hr</td>
<td>ATI 4513 / PTO 5076</td>
</tr>
<tr>
<td>SEP-123</td>
<td>EU-123</td>
<td>20%</td>
<td>0.015 gr/scf, 0.10 lb/hr</td>
<td>ATI 4514 / PTO 5077</td>
</tr>
<tr>
<td>SEP-126</td>
<td>EU-126</td>
<td>20%</td>
<td>0.015 gr/scf, 0.10 lb/hr</td>
<td>ATI 4515 / PTO 5078</td>
</tr>
<tr>
<td>SEP-127</td>
<td>EU-127</td>
<td>20%</td>
<td>0.015 gr/scf, 0.10 lb/hr</td>
<td>ATI 4516 / PTO 5079</td>
</tr>
<tr>
<td>SEP-128</td>
<td>EU-128</td>
<td>20%</td>
<td>0.015 gr/scf, 0.10 lb/hr</td>
<td>ATI 4517 / PTO 5080</td>
</tr>
<tr>
<td>SEP-130</td>
<td>EU-130</td>
<td>20%</td>
<td>0.015 gr/scf, 0.10 lb/hr</td>
<td>ATI 4518 / PTO 5081</td>
</tr>
</tbody>
</table>

Table Maltodextrin-3. General Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Pollutant</th>
<th>Emission Limit(s)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-120</td>
<td>EU-120</td>
<td>Opacity</td>
<td>20%</td>
<td>LCO 10.7</td>
</tr>
<tr>
<td>SEP-123</td>
<td>EU-123</td>
<td>PM</td>
<td>0.1 gr/dscf</td>
<td>567 IAC 23.4(7)</td>
</tr>
<tr>
<td>SEP-126</td>
<td>EU-126</td>
<td>PM</td>
<td>0.1 gr/dscf</td>
<td>LCO 10.9(1)&quot;g&quot;</td>
</tr>
<tr>
<td>SEP-127</td>
<td>EU-127</td>
<td>PM</td>
<td>0.1 gr/dscf</td>
<td></td>
</tr>
<tr>
<td>SEP-128</td>
<td>EU-128</td>
<td>PM</td>
<td>0.1 gr/dscf</td>
<td></td>
</tr>
<tr>
<td>SEP-130</td>
<td>EU-130</td>
<td>PM</td>
<td>0.1 gr/dscf</td>
<td></td>
</tr>
</tbody>
</table>
Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Control Device:
A baghouse shall be used to control particulate emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement:   LCPH ATI 4513 / PTO 5076
                             LCPH ATI 4514 / PTO 5077
                             LCPH ATI 4515 / PTO 5078
                             LCPH ATI 4516 / PTO 5079
                             LCPH ATI 4517 / PTO 5080
                             LCPH ATI 4518 / PTO 5081

Operating Limits:
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

   A. All six bins combined (SEP-120, SEP-123, SEP-126, SEP-127, SEP-128, and SEP-130) shall not operate more than 8760 hours per year based on a 12-month rolling total.

Authority for Requirement:   LCPH ATI 4513 / PTO 5076
                             LCPH ATI 4514 / PTO 5077
                             LCPH ATI 4515 / PTO 5078
                             LCPH ATI 4516 / PTO 5079
                             LCPH ATI 4517 / PTO 5080
                             LCPH ATI 4518 / PTO 5081

Operating Condition Monitoring and Recordkeeping:
All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County AQD and other federal or state air pollution regulatory agencies and/or their authorized representatives. Records shall be legible and maintained in an orderly manner. All monitors shall be easily accessible to air pollution personnel. These records shall show the following:

   A. Non-resettable hour meters shall be installed on each bin.

   B. During the first twelve (12) months of operation, determine the cumulative hours of operation for each bin for each month of operation.

   C. After the first twelve (12) months of operation, determine the annual hours of operation on a rolling 12-month basis for each month of operation.

   D. Daily pressure drop readings.

   E. Records of all maintenance and repair complete on the control equipment.
F. Copies of test results shall be retained until a new approved representative test is conducted or for 5 years, whichever is longer.

Authority for Requirement:  
LCPH ATI 4513 / PTO 5076  
LCPH ATI 4514 / PTO 5077  
LCPH ATI 4515 / PTO 5078  
LCPH ATI 4516 / PTO 5079  
LCPH ATI 4517 / PTO 5080  
LCPH ATI 4518 / PTO 5081

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

### Table Maltodextrin-4.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>LCPH ATI / PTO Numbers</th>
<th>Stack Characteristics</th>
<th>Stack Opening (inches, dia.)</th>
<th>Exhaust Temp. (°F)</th>
<th>Exhaust Flow Rate (scfm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-120</td>
<td>EU-120</td>
<td>4513 / 5076</td>
<td>64</td>
<td>Downward</td>
<td>6</td>
<td>130-165</td>
</tr>
<tr>
<td>SEP-123</td>
<td>EU-123</td>
<td>4514 / 5077</td>
<td>64</td>
<td>Downward</td>
<td>6</td>
<td>130-165</td>
</tr>
<tr>
<td>SEP-126</td>
<td>EU-126</td>
<td>4515 / 5078</td>
<td>64</td>
<td>Downward</td>
<td>6</td>
<td>130-165</td>
</tr>
<tr>
<td>SEP-127</td>
<td>EU-127</td>
<td>4516 / 5079</td>
<td>64</td>
<td>Downward</td>
<td>6</td>
<td>130-165</td>
</tr>
<tr>
<td>SEP-128</td>
<td>EU-128</td>
<td>4517 / 5080</td>
<td>64</td>
<td>Downward</td>
<td>6</td>
<td>130-165</td>
</tr>
<tr>
<td>SEP-130</td>
<td>EU-130</td>
<td>4518 / 5081</td>
<td>64</td>
<td>Downward</td>
<td>6</td>
<td>130-165</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.

Stack testing for PM/PM₁₀ was successfully completed for emission point SEP-127 on February, 2005.

**Opacity Monitoring:**
The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling
operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required?  Yes No

Facility Maintained Operation & Maintenance Plan Required?  Yes No

Compliance Assurance Monitoring (CAM) Plan Required?  Yes No

1 Facility O&M required for EP 120, 123, 126, 127, 128, and 130

Authority for Requirement: 567 IAC 22.108(3)

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

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

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

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: SEP-122
Process Area: MALTODEXTRIN

Table Maltodextrin-5. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
<th>CE ID</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-122</td>
<td>EU-122A</td>
<td>Maltodextrin</td>
<td>Maltodextrin</td>
<td>5 tons/hr</td>
<td>CE-122A</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-122</td>
<td>EU-122B</td>
<td>Spray Dryer</td>
<td></td>
<td>0.04 MCF/hr</td>
<td>CE-122B</td>
<td>Baghouse</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 Maltodextrin-6. Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Pollutant</th>
<th>Emission Limit(s)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-122</td>
<td>EU-122A</td>
<td>Opacity</td>
<td>20%</td>
<td>ATI 5330 / PTO 5585</td>
</tr>
<tr>
<td></td>
<td>EU-122B</td>
<td>PM\textsubscript{10}</td>
<td>2.06 lb/hr\textsubscript{2}</td>
<td>ATI 5330 / PTO 5585</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PM</td>
<td>2.06 lb/hr, 0.1 gr/dscf</td>
<td>ATI 5330 / PTO 5585, 567 IAC 23.4(7) LCO 10.9(1)a&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SO\textsubscript{2}</td>
<td>0.02 lb/hr, 0.02 tpy 500 ppmv</td>
<td>ATI 5330 / PTO 5585, LCO 10.12(2)</td>
</tr>
</tbody>
</table>

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

Control Device:
Two baghouses shall be used to control particulate emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 5330 / PTO 5585

Operating Limits:
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

A. The spray dryer shall be heated by natural gas or steam heat only.

B. Pressure drop across each baghouse shall be maintained between 0.5 to 10 inches of water.
C. The control equipment on this unit shall be maintained and operated according to the manufacturer’s specifications and good operating practices.

Authority for Requirement: LCPH ATI 5330 / PTO 5585

Operating Condition Monitoring and Recordkeeping:
If not specified elsewhere, 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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and/or their authorized representatives.

A. Pressure drop across each baghouse, CE-122A and CE-122B, shall be recorded on a daily basis while the control equipment is in operation.

B. The owner or operator shall monitor and record “no visible emissions” on a weekly basis.

C. Maintenance and repair completed on the control devices.

D. Copies of test results shall be retained until a new approved representative test is conducted for this emission point.

Authority for Requirement: LCPH ATI 5330 / PTO 5585

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

- Stack Height, (ft, from the ground): 141
- Discharge Style: Vertical, unobstructed
- Stack Opening, (inches, diameter): 78
- Exhaust Temperature (°F): 160
- Exhaust Flow Rate (scfm): 65,000

Authority for Requirement: LCPH ATI 5330 / PTO 5585

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 – PM$_{10}$
  - 1st Stack Test to be Completed within the first two years of permit term
  - Authority for Requirement – 567 IAC 22.108(3)

- Pollutant – Particulate Matter
  - 1st Stack Test to be Completed within the first two years of permit term
Test Method: 40 CFR 60, Appendix A, Method 5 and
40 CFR Part 51, Appendix M, Method 202
Authority for Requirement – 567 IAC 22.108(3)

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

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

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

1 Compliance Assurance Monitoring plan has been waived. PTO 5585 has CAM equivalent monitoring required.
Table Maltodextrin-7. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
<th>CE ID</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-124</td>
<td>EU-124</td>
<td>Maltodextrin Packaging Transfer Line</td>
<td>Maltodextrin</td>
<td>24 ton/hr</td>
<td>CE-124</td>
<td>Baghouse</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 Maltodextrin-8. Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Pollutant</th>
<th>Emission Limit(s)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-124</td>
<td>EU-124</td>
<td>Opacity</td>
<td>20%</td>
<td>ATI 5025 / PTO 5320</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PM\textsubscript{10}</td>
<td>0.31 lb/hr</td>
<td>ATI 5025 / PTO 5320</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PM</td>
<td>0.31 lb/hr, 0.1 gr/dscf</td>
<td>ATI 5025 / PTO 5320, 567 IAC 23.4(7), LCO 10.9(1)&quot;a&quot;</td>
</tr>
</tbody>
</table>

Operational Limits & Requirements

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

Control Device:

A baghouse shall be used to control particulate emissions. The control device shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in [Operating Condition Monitoring and Recordkeeping] shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 5025 / PTO 5320

Operating Limits:

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

A. The control equipment shall be maintained according to the manufacturer’s specifications and good operating practices.

B. Pressure drop across the baghouse, CE-124, shall be maintained between 0.3 to 6 inches of water.

Authority for Requirement: LCPH ATI 5025 / PTO 5320
Operating Condition Monitoring and Recordkeeping:
A. Pressure drop readings across the baghouse, CE-124, shall be recorded on a daily basis while the control equipment is in operation.

B. Monitor and record “no visible emissions” observations on a weekly basis. An exceedance of the indicator opacity of no visible emissions will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance.

C. Record all maintenance and repair completed to the control equipment.

D. Retain copies of emission test results for compliance testing completed on this emission source.

If not specified elsewhere, 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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

Authority for Requirement: LCPH ATI 5025 / PTO 5320

Emission Point Characteristics
The emission point shall conform to the specifications listed below.
Stack Height, (ft, from the ground): 43
Discharge Style: Vertical, unobstructed
Stack Opening, (inches, dia.): 12
Exhaust Temperature (°F): 155
Exhaust Flow Rate (acfm): 5,400

Authority for Requirement: LCPH ATI 5025 / PTO 5320

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 is not required at this time.

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.
If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

Authority for Requirement: 567 IAC 22.108(3)
**Emission Point ID Number:** SEP-125  
**Process Area:** MALTODEXTRIN

**Associated Equipment**  
Associated Emission Unit ID Numbers: EU-125  
Emissions Control Equipment ID Number: CE-125  
Emissions Control Equipment Description: Baghouse

**Emission Unit vented through this Emission Point:** EU-125  
**Emission Unit Description:** Maltodextrin Vacuum / Reprocess System  
**Raw Material/Fuel:** Maltodextrin  
**Rated Capacity:** 1000 scfm

---

**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:**  
  LCPH ATI 3980 / PTO 4033  
  LCO 10.7

- **Pollutant:** PM$_{10}$  
  **Emission Limit(s):** 0.09 lb/hr, 0.38 tpy  
  **Authority for Requirement:**  
  LCPH ATI 3980 / PTO 4033

- **Pollutant:** Particulate Matter  
  **Emission Limit(s):** 0.1 gr/dscf  
  **Authority for Requirement:**  
  567 IAC 23.4(7)  
  LCO 10.9(1)"g"

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

**Control Device:**  
A baghouse shall be used to control particulate emissions. The control device shall be operated at all times when any equipment controlled by the control device is operating. The control device shall be maintained on this source in a good operating condition at all times.

All appropriate probes and gauges needed to measure the parameters outlined in "Monitoring Requirements" shall be installed and maintained in a good operating condition.

**Authority for Requirement:**  
LCPH ATI 3980 / PTO 4033
Operating Limits:
This source shall be limited to 5865 hours of operation calculated on a 12-month rolling sum.
The airflow rate as it associates to emission calculated for this source has been limited to 1000 scfm. Any increase in airflow may necessitate a new Permit to Operate.

Authority for Requirement: LCPH ATI 3980 / PTO 4033

Monitoring Requirements:
The following information shall be monitored:

A. Monthly hours of operation from a non-resettable hour meter.
B. Daily pressure drop readings when operating.
C. All monitors shall be easily accessible to air pollution personnel.

Authority for Requirement: LCPH ATI 3980 / PTO 4033

Recordkeeping Requirements:
A log of operation shall be maintained for the above-listed unit. The following information shall be recorded and kept on-site for a period of no less than five years.

A. Hours of operation calculated on a 12-month rolling sum.
B. Daily pressure drop readings.
C. Record of maintenance and repair completed on the control device.

These records shall be available on-site at all times for viewing by air pollution control personnel.

Authority for Requirement: LCPH ATI 3980 / PTO 4033

Reporting:
Submit an annual report summarizing the hours of operation based on a 12-month rolling sum.
Submit excess emission reports as required in Linn County Ordinance, Chapter 10, Section 14.

Authority for Requirement: LCPH ATI 3980 / PTO 4033

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

Stack testing is not required at this time.

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.
If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

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

Authority for Requirement: 567 IAC 22.108(3)
Table Maltodextrin-9. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
<th>CE ID</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-129</td>
<td>EU-129</td>
<td>Maltodextrin Packaging System</td>
<td>Maltodextrin</td>
<td>27 ton/hr</td>
<td>CE-129</td>
<td>Baghouse</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 Maltodextrin-10. Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Pollutant</th>
<th>Emission Limit(s)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-129</td>
<td>EU-129</td>
<td>Opacity</td>
<td>20%</td>
<td>ATI 5026 / PTO 5321</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PM10</td>
<td>0.73 lb/hr</td>
<td>ATI 5026 / PTO 5321</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PM</td>
<td>0.73 lb/hr</td>
<td>ATI 5026 / PTO 5321</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0.1 gr/dscf</td>
<td>567 IAC 23.4(7)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LCO 10.9(1)&quot;a&quot;</td>
</tr>
</tbody>
</table>

Operational Limits & Requirements

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

Control Device:

A baghouse shall be installed to control particulate matter emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LPCH ATI 5026 / PTO 5321

Operating Limits:

A. Pressure drop across the baghouse, CE-129, shall be maintained between 0.3 to 14 inches of water.

B. The emission point shall be limited to packaging 420,480,000 pounds of maltodextrin per year.

Authority for Requirement: LCPH ATI 5026 / PTO 5321

Operating Condition Monitoring and Recordkeeping:

Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized
representatives. Records shall be legible and maintained in an orderly manner. These records shall show the following:

A. Pressure drop readings across the baghouse, CE-129, shall be recorded on a daily basis while the control equipment is in operation.

B. Record process rate on a 12-month rolling total basis.

C. The owner or operator shall monitor and record ‘no visible emissions’ observations on a weekly basis. An exceedance of ‘no visible emissions’ will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.

D. Record all maintenance and repair completed to the control equipment.

E. Retain copies of emission test results for compliance testing completed on this emission source.

Authority for Requirement:  LCPH ATI 5026 / PTO 5321

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 110
Discharge Style: Vertical, unobstructed
Stack Opening, (inches, diameter): 20
Exhaust Temperature (°F): 71
Exhaust Flow Rate (scfm): 9684

Authority for Requirement:  LCPH ATI 5026/ PTO 5321

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator shall submit a request to the Department within thirty (30) days of 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 is not required at this time.

**Opacity Monitoring:**

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.
If an opacity >20% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

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

Authority for Requirement: 567 IAC 22.108(3)
Table Fructose-1. Table Fructose. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-153</td>
<td>EU-153</td>
<td>Fructose East MR Evaporator Vent</td>
<td>Dextrose</td>
<td>39,000 gallons/hr</td>
<td>None</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 Fructose-2. Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Pollutant</th>
<th>Emission Limit(s)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-153</td>
<td>EU-153</td>
<td>SO₂</td>
<td>0.10 lb/hr</td>
<td>ATI 5681 / PTO 5478</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>500 ppmv</td>
<td>LCO 10.7</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 of this equipment shall comply with the operational limits and requirements listed below:

A. The operation of this emission unit(s) while operating on stillage is prohibited. The use of stillage would necessitate the owner or operator to apply for an authorization to install permit prior to this modification.

Authority for Requirement: LCPH ATI 5681 / PTO 5478

Recordkeeping Requirements:
There are no recordkeeping requirements for this source at this time.

Authority for Requirement: LCPH ATI 5681 / PTO 5478

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

Stack Height, (ft, from the ground): 55
Discharge Style: Vertical, unobstructed
Stack Opening, (inches, dia.): 6
Exhaust Temperature (°F): 192
Exhaust Flow Rate (acfm): 25

Authority for Requirement: LCPH ATI 5681 / PTO 5478

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 is not required at this time.

Opacity monitoring is not required at this time.

**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: SEP-034, SEP-114  
Process Area: SYRUP / REFINERY

Table Refinery-1. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
<th>CE ID</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-034</td>
<td>EU-34A</td>
<td>Carbon Furnace</td>
<td>Spent Carbon</td>
<td>3333 lb/hr</td>
<td>CE-034A</td>
<td>Sly Venturi Impingejet Scrubber, Zero Hearth</td>
</tr>
<tr>
<td>SEP-034</td>
<td>EU-34B</td>
<td>Carbon Furnace – Natural Gas</td>
<td>Natural Gas</td>
<td>23 MMBtu/hr</td>
<td>CE-034B</td>
<td>Sly Venturi Impingejet Scrubber, Zero Hearth</td>
</tr>
<tr>
<td>SEP-114</td>
<td>EU-114A</td>
<td>Carbon Furnace #2</td>
<td>Spent Carbon</td>
<td>3333 lb/hr</td>
<td>CE-114A</td>
<td>Sly Venturi Impingejet Scrubber, Zero Hearth</td>
</tr>
<tr>
<td>SEP-114</td>
<td>EU-114B</td>
<td>Carbon Furnace #2 – Natural Gas</td>
<td>Natural Gas</td>
<td>23 MMBtu/hr</td>
<td>CE-114B</td>
<td>Sly Venturi Impingejet Scrubber, Zero Hearth</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 Refinery-2. Emission Limits

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Pollutant</th>
<th>Emission Limit(s)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-034</td>
<td>EU-34</td>
<td>Opacity</td>
<td>20%</td>
<td>ATI 4664 / PTO 5082</td>
</tr>
<tr>
<td></td>
<td>EU-114</td>
<td></td>
<td></td>
<td>ATI 4665 / PTO 5083</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LCO 10.7</td>
</tr>
<tr>
<td>SEP-114</td>
<td>EU-114</td>
<td>PM&lt;sub&gt;10&lt;/sub&gt;</td>
<td>1.61 lb/hr, 0.033 gr/dscf</td>
<td>ATI 4664 / PTO 5082</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>ATI 4665 / PTO 5083</td>
</tr>
<tr>
<td>SEP-034</td>
<td>EU-34</td>
<td>PM&lt;sub&gt;1&lt;/sub&gt;</td>
<td>1.61 lb/hr, 0.033 gr/dscf</td>
<td>ATI 4664 / PTO 5082</td>
</tr>
<tr>
<td></td>
<td>EU-114</td>
<td></td>
<td></td>
<td>ATI 4665 / PTO 5083</td>
</tr>
<tr>
<td>SEP-114</td>
<td>EU-114</td>
<td>SO&lt;sub&gt;x&lt;/sub&gt;</td>
<td>4.49 lb/hr</td>
<td>ATI 4664 / PTO 5082</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>ATI 4665 / PTO 5083</td>
</tr>
<tr>
<td>SEP-114</td>
<td>EU-114</td>
<td>NO&lt;sub&gt;x&lt;/sub&gt;</td>
<td>4.49 lb/hr</td>
<td>ATI 4664 / PTO 5082</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>ATI 4665 / PTO 5083</td>
</tr>
<tr>
<td>SEP-034</td>
<td>EU-34</td>
<td>VOC&lt;sub&gt;1&lt;/sub&gt;</td>
<td>4.49 lb/hr</td>
<td>ATI 4664 / PTO 5082</td>
</tr>
<tr>
<td></td>
<td>EU-114</td>
<td></td>
<td></td>
<td>ATI 4665 / PTO 5083</td>
</tr>
<tr>
<td>SEP-114</td>
<td>EU-114</td>
<td>CO&lt;sub&gt;1&lt;/sub&gt;</td>
<td>11.34 lb/hr</td>
<td>ATI 4664 / PTO 5082</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>ATI 4665 / PTO 5083</td>
</tr>
</tbody>
</table>

<sup>1</sup> Emissions are limited to maintain synthetic minor status for the project. Project emissions include the installation of two carbon furnaces (EP 034 and 114).

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.
Control Device:
A Venturi scrubber shall be used to control particulate and sulfur dioxide emissions. The zero hearth furnace afterburner shall be used to control volatile organic compounds (VOC) and carbon monoxide (CO) emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement:   LCPH ATI 4664 / PTO 5082
                              LCPH ATI 4665 / PTO 5083

Operating Limits:
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

A. Re-circulation water to the scrubber shall be greater than 350 gallons per minute.
B. pH of the scrubbing liquor shall be maintained above 5.
C. This unit shall burn natural gas only.

Authority for Requirement:   LCPH ATI 4664 / PTO 5082
                              LCPH ATI 4665 / PTO 5083

Operating Condition Monitoring and Recordkeeping:
The following shall be monitored and recorded:

A. Daily pressure drop readings.
B. Daily scrubber water re-circulation rate.
C. Daily scrubber pH.
D. Visible emissions shall be observed on a weekly basis to ensure that no visible emissions occur during material handling of the unit.
E. Maintenance and repair completed to the control unit.
F. Maintain copies of source test results until a new approved representative test is conducted or for five (5) years, whichever is longer.

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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

Authority for Requirement:   LCPH ATI 4664 / PTO 5082
                              LCPH ATI 4665 / PTO 5083
**Emission Point Characteristics**

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

**Table Refinery-3.**

<table>
<thead>
<tr>
<th>EP</th>
<th>LCPH ATI / PTO Numbers</th>
<th>Stack Characteristics</th>
<th>Stack Opening (inches, dia.)</th>
<th>Exhaust Temp. (°F)</th>
<th>Exhaust Flow Rate (scfm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-034</td>
<td>4664 / 5082</td>
<td>110 Vertical, unobstructed</td>
<td>27</td>
<td>160</td>
<td>5700</td>
</tr>
<tr>
<td>SEP-114</td>
<td>4665 / 5083</td>
<td>90 Vertical, unobstructed</td>
<td>30</td>
<td>160</td>
<td>5700</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.*

**Stack Testing:**

EP 034 - Pollutant – CO

1st Stack Test to be Completed within the first two years of permit term

- Test Method – Method 10 (40 CFR 60) or approved alternative
- Authority for Requirement – 567 IAC 22.108(3)

EP 114 - Pollutant – CO

1st Stack Test to be Completed within the first two years of permit term

- Test Method – Method 10 (40 CFR 60) or approved alternative
- Authority for Requirement – 567 IAC 22.108(3)

**Opacity Monitoring:**

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to
retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agency Approved Operation &amp; Maintenance Plan</td>
<td>☐</td>
<td>☒</td>
</tr>
<tr>
<td>Facility Maintained Operation &amp; Maintenance Plan</td>
<td>☐²</td>
<td>☐</td>
</tr>
<tr>
<td>Compliance Assurance Monitoring (CAM) Plan</td>
<td>☐²</td>
<td>☐</td>
</tr>
</tbody>
</table>

²CAM for Zero Hearth CO control is required for both EP 034 and EP 114. See Appendix B.

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

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

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

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: SEP-112
Process Area: SYRUP / REFINERY

Associated Equipment
Associated Emission Unit ID Numbers: EU-112
Emissions Control Equipment ID Number: CE-112
Emissions Control Equipment Description: Refinery Acid Tank Scrubber

Emission Unit vented through this Emission Point: EU-112
Emission Unit Description: Refinery Acid Tank Scrubber System
Raw Material/Fuel: 35% Hydrochloric Acid
Rated Capacity: 900 gal/hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: LCPH ATI 4490 / PTO 4701
LCO 10.7

Pollutant: PM$_{10}$
Emission Limit(s): 0.16 lb/hr
Authority for Requirement: LCPH ATI 4490 / PTO 4701

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf, 0.16 lb/hr
Authority for Requirement: LCPH ATI 4490 / PTO 4701
567 IAC 23.4(7)
LCO 10.9(1)“g”

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

Control Device:
A packed scrubber shall be used to control particulate matter emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 4490 / PTO 4701
Operating Limits:
Throughput through the tanks shall be limited to 900 gallons per hour (7,884,000 gallons per year) for all tanks combined.

Tanks shall not be removed or added without obtaining the proper permits (if required).

Authority for Requirement: LCPH ATI 4490 / PTO 4701

Operating Condition Monitoring and Recordkeeping:
All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

Annual acid throughput calculated on a 12-month rolling total.

Records of all maintenance and repair completed to the scrubber.

Authority for Requirement: LCPH ATI 4490 / PTO 4701

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

Stack Height, (ft, from the ground): 45
Discharge Style: Vertical
Stack Opening, (inches, diameter): 8
Exhaust Temperature (°F): 90
Exhaust Flow Rate (scfm): 200

Authority for Requirement: LCPH 4490 / PTO 4701

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 is not required at this time.

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If
weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

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

Authority for Requirement: 567 IAC 22.108(3)
**Emission Point ID Number:** SEP-387  
**Process Area:** SYRUP / REFINERY

**Associated Equipment**  
Associated Emission Unit ID Numbers: EU-387  
Emissions Control Equipment ID Number: CE-387  
Emissions Control Equipment Description: Refinery Heavy Steepwater Tank

Emission Unit vented through this Emission Point: EU-387  
Emission Unit Description: Refinery Heavy Steepwater Tank  
Raw Material/Fuel: Heavy Steepwater  
Rated Capacity: 21000 gal/hr

---

**Applicable Requirements**

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

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

- **Pollutant:** SO₂  
  - Emission Limit(s): 0.08 lb/hr  
  - Authority for Requirement: LCPH ATI 4842 / PTO 6125

- **Pollutant:** SO₂  
  - Emission Limit(s): 500 ppmv  
  - Authority for Requirement: LCPH ATI 4842 / PTO 6125
  - LCO 10.12(2)

- **Pollutant:** VOC  
  - Emission Limit(s): 0.20 lb/hr  
  - Authority for Requirement: LCPH ATI 4842 / PTO 6125

**Emission Point Characteristics**

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

- **Stack Height:** (ft, from the ground): 42  
- **Discharge Style:** Vertical, unobstructed  
- **Stack Opening:** (inches, diameter): 8  
- **Exhaust Temperature (°F):** 134  
- **Exhaust Flow Rate (acfm):** 47  
- **Authority for Requirement:** LCPH 4842 / PTO 6125

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 is not required at this time.

Opacity monitoring is not required at this time.

**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:  SEP-091, SEP-092, SEP-093, SEP-094, SEP-097, SEP-516, SEP-540
Process Area:  UTILITIES

Table Utilities-1.  Emission Point IDs.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-091</td>
<td>EU-91</td>
<td>Dry Starch Diesel Generator</td>
<td>Diesel Fuel</td>
<td>44.8 gal/hr</td>
</tr>
<tr>
<td>SEP-092</td>
<td>EU-92</td>
<td>#3 Cooling Tower Emergency Generator</td>
<td>Diesel Fuel</td>
<td>49.4 gal/hr</td>
</tr>
<tr>
<td>SEP-093</td>
<td>EU-93</td>
<td>Alcohol / Waste Treatment Emergency Generator</td>
<td>Diesel Fuel</td>
<td>44.8 gal/hr</td>
</tr>
<tr>
<td>SEP-094</td>
<td>EU-94</td>
<td>Fructose Emergency Generator</td>
<td>Diesel Fuel</td>
<td>19 gal/hr</td>
</tr>
<tr>
<td>SEP-097</td>
<td>EU-97</td>
<td>Boiler Room #2 Emergency Diesel Generator</td>
<td>Diesel Fuel</td>
<td>44.8 gal/hr</td>
</tr>
<tr>
<td>SEP-516</td>
<td>EU-516</td>
<td>Co-Gen Emergency Generator</td>
<td>Diesel Fuel</td>
<td>42.4 gal/hr</td>
</tr>
<tr>
<td>SEP-540</td>
<td>EU-540</td>
<td>Co-Gen 2 Emergency Diesel Generator</td>
<td>Diesel Fuel</td>
<td>59.2 gal/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.

Table Utilities-2.  Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>Opacity</th>
<th>PM$_{10}^*$</th>
<th>PM$^*$</th>
<th>SO$_2^*$</th>
<th>NOx$^*$</th>
<th>ATI / PTO #</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-091</td>
<td>20%</td>
<td>0.86 lb/hr</td>
<td>0.1 gr/dscf, 0.86 lb/hr</td>
<td>3.10 lb/hr</td>
<td>19.64 lb/hr</td>
<td>4706 / 4847</td>
</tr>
<tr>
<td>SEP-092</td>
<td>20%</td>
<td>0.95 lb/hr</td>
<td>0.1 gr/dscf, 0.95 lb/hr</td>
<td>3.42 lb/hr</td>
<td>21.66 lb/hr</td>
<td>4707 / 4848</td>
</tr>
<tr>
<td>SEP-093</td>
<td>20%</td>
<td>0.86 lb/hr</td>
<td>0.1 gr/dscf, 0.86 lb/hr</td>
<td>3.10 lb/hr</td>
<td>19.64 lb/hr</td>
<td>4708 / 4849</td>
</tr>
<tr>
<td>SEP-094</td>
<td>20%</td>
<td>0.81 lb/hr</td>
<td>0.1 gr/dscf, 0.81 lb/hr</td>
<td>0.75 lb/hr</td>
<td>11.48 lb/hr</td>
<td>4709 / 4850</td>
</tr>
<tr>
<td>SEP-097</td>
<td>20%</td>
<td>0.86 lb/hr</td>
<td>0.1 gr/dscf, 0.86 lb/hr</td>
<td>3.10 lb/hr</td>
<td>19.64 lb/hr</td>
<td>4710 / 4851</td>
</tr>
<tr>
<td>SEP-516</td>
<td>20%</td>
<td>0.86 lb/hr</td>
<td>0.1 gr/dscf, 0.86 lb/hr</td>
<td>2.93 lb/hr</td>
<td>18.59 lb/hr</td>
<td>4711 / 4852</td>
</tr>
<tr>
<td>SEP-540</td>
<td>20%</td>
<td>1.14 lb/hr</td>
<td>0.1 gr/dscf, 1.14 lb/hr</td>
<td>4.10 lb/hr</td>
<td>25.95 lb/hr</td>
<td>4712 / 4853</td>
</tr>
</tbody>
</table>

$^*$Emission rate used to demonstrate no exceedance of the National Ambient Air Quality Standards (NAAQS).
Table Utilities-3. General Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>Pollutant</th>
<th>Emission Limit(s)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-091</td>
<td>Opacity</td>
<td>20%</td>
<td>LCO 10.7</td>
</tr>
<tr>
<td>SEP-092</td>
<td>PM</td>
<td>0.1 gr/dscf</td>
<td>567 IAC 23.3(2)&quot;a&quot;(2) LCO 10.9(1)&quot;a&quot;</td>
</tr>
<tr>
<td>SEP-093</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEP-094</td>
<td></td>
<td></td>
<td></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 not operate more than 500 hours in any rolling twelve-month period.
B. This emission unit shall operate on #1 or #2 distillate fuel only.
C. The sulfur content of the fuel oil shall not exceed 0.5 percent by weight.

Authority for Requirement: LCPH ATI 4706 / PTO 4847
LCPH ATI 4707 / PTO 4848
LCPH ATI 4708 / PTO 4849
LCPH ATI 4709 / PTO 4850
LCPH ATI 4710 / PTO 4851
LCPH ATI 4711 / PTO 4852
LCPH ATI 4712 / PTO 4853

Operating Condition Monitoring and Recordkeeping:
All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspections by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. Maintain records clearly showing the type of fuel utilized and the sulfur content of that fuel.
B. Record the hours of operation for the emission unit for each month of operation.
C. The annual hours of operation for the emission unit shall be updated on a 12-month rolling basis, for each month of operation.

Authority for Requirement: LCPH ATI 4706 / PTO 4847
LCPH ATI 4707 / PTO 4848
LCPH ATI 4708 / PTO 4849
LCPH ATI 4709 / PTO 4850
LCPH ATI 4710 / PTO 4851
LCPH ATI 4711 / PTO 4852
LCPH ATI 4712 / PTO 4853
Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Table Utilites-4.

<table>
<thead>
<tr>
<th>EP</th>
<th>LCPH ATI / PTO Numbers</th>
<th>Stack Characteristics</th>
<th>Stack Opening (inches, dia.)</th>
<th>Exhaust Temp. (°F)</th>
<th>Exhaust Flow Rate (acfm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-091</td>
<td>4706 / 4847</td>
<td>30 Vertical, unobstructed</td>
<td>10</td>
<td>650</td>
<td>5018</td>
</tr>
<tr>
<td>SEP-092</td>
<td>4707 / 4848</td>
<td>29 Vertical, unobstructed</td>
<td>10</td>
<td>650</td>
<td>6536</td>
</tr>
<tr>
<td>SEP-093</td>
<td>4708 / 4849</td>
<td>34 Vertical, unobstructed</td>
<td>8</td>
<td>650</td>
<td>5018</td>
</tr>
<tr>
<td>SEP-094</td>
<td>4709 / 4850</td>
<td>50 Vertical, unobstructed</td>
<td>8</td>
<td>650</td>
<td>2358</td>
</tr>
<tr>
<td>SEP-097</td>
<td>4710 / 4851</td>
<td>44 Vertical, unobstructed</td>
<td>11</td>
<td>650</td>
<td>5018</td>
</tr>
<tr>
<td>SEP-516</td>
<td>4711 / 4852</td>
<td>12 Vertical, unobstructed</td>
<td>10</td>
<td>650</td>
<td>3669</td>
</tr>
<tr>
<td>SEP-540</td>
<td>4712 / 4853</td>
<td>12 Vertical, unobstructed</td>
<td>8</td>
<td>964</td>
<td>6879</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.

Stack testing is not required at this time.

Opacity monitoring is not required at this time.

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: SEP-170
Process Area: UTILITIES

Table Utilities-5. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-170</td>
<td>EU-170A</td>
<td>Fructose Cooling Tower #2 Cell A</td>
<td>Water</td>
<td>750,000 gal/hr</td>
<td>Drift Eliminator</td>
</tr>
<tr>
<td>SEP-170</td>
<td>EU-170B</td>
<td>Fructose Cooling Tower #2 Cell B</td>
<td>Water</td>
<td>750,000 gal/hr</td>
<td>Drift Eliminator</td>
</tr>
<tr>
<td>SEP-170</td>
<td>EU-170C</td>
<td>Fructose Cooling Tower #2 Cell C</td>
<td>Water</td>
<td>750,000 gal/hr</td>
<td>Drift Eliminator</td>
</tr>
<tr>
<td>SEP-170</td>
<td>EU-170D</td>
<td>Fructose Cooling Tower #2 Cell D</td>
<td>Water</td>
<td>750,000 gal/hr</td>
<td>Drift Eliminator</td>
</tr>
<tr>
<td>SEP-170</td>
<td>EU-170E</td>
<td>Fructose Cooling Tower #2 Cell E</td>
<td>Water</td>
<td>750,000 gal/hr</td>
<td>Drift Eliminator</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 Utilities-6. Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Pollutant</th>
<th>Emission Limit(s)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-170</td>
<td>EU-170</td>
<td>Opacity</td>
<td>20%</td>
<td>ATI 5550 / PTO 5767, LCO 10.7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PM&lt;sub&gt;10&lt;/sub&gt;</td>
<td>0.57 lb/hr</td>
<td>ATI 5550 / PTO 5767</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PM</td>
<td>0.1 gr/dscf</td>
<td>ATI 5550 / PTO 5767, 567 IAC 23.4(7), LCO 10.9(1)&quot;a&quot;</td>
</tr>
</tbody>
</table>

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

NSPS and NESHAP Applicability:
The National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR 63 Subpart Q National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers shall apply to this source pursuant to LCO 10.9(4)"q" and 567 IAC 23.1(4)"q".

Authority for Requirement: LCPH ATI 5550 / PTO 5767

Operating Limits:
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

A. The circulating water in the cooling tower shall not exceed 2500 parts per million by weight (ppmw) (2500 mg/L) total dissolved solids (TDS).
B. Chromium based or VOC containing water treatment chemicals shall not be used in these emission units.

C. The owner or operator shall maintain the cooling tower drift eliminators according to manufacturer’s specification, instructions and maintenance schedule.

Authority for Requirement: LCPH ATI 5550 / PTO 5767

**Operating Condition Monitoring and Recordkeeping:**
If not specified elsewhere, 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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. The owner or operator shall complete an analysis of the TDS of the water in the cooling tower at least once for each calendar month this emission unit is in operation.

B. The owner or operator shall maintain a record of the manufacturer's drift loss guarantee for the cooling tower drift eliminators.

C. Maintain a material safety data sheet of all water treatment chemicals used.

D. The owner or operator shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the cooling tower.

Authority for Requirement: LCPH ATI 5550 / PTO 5767

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

Stack Height, (ft, from the ground): 42
Discharge Style: Vertical, unobstructed
Stack Opening, (inches, dia.): 408
Exhaust Temperature (°F): 80
Exhaust Flow Rate (acfm): 4 cells @ 1,186,751 acfm per cell; 1 cell at 1,171,570 acfm per cell

Authority for Requirement: LCPH ATI 5550 / PTO 5767

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 is not required at this time.
Opacity monitoring is not required at this time.

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:** EU-095, EU-096, EU-517, EU-518  
**Process Area:** UTILITIES

### Table Utilities-7. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU-095</td>
<td>North Corn Plant Diesel Fire Pump</td>
<td>Diesel</td>
<td>302 hp</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>EU-096</td>
<td>South Corn Plant Diesel Fire Pump</td>
<td>Diesel</td>
<td>302 hp</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>EU-517</td>
<td>East Co-Gen Diesel Fire Pump</td>
<td>Diesel</td>
<td>340 hp</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>EU-518</td>
<td>West Co-Gen Diesel Fire pump</td>
<td>Diesel</td>
<td>340 hp</td>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

### Applicable Requirements

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

**Pollutant:** Opacity  
**Emission Limit(s):** 20%  
**Authority for Requirement:** LCO 10.7

**Pollutant:** Particulate Matter  
**Emission Limit(s):** 0.1 gr/scf  
**Authority for Requirement:** 567 IAC 23.3(2)"a"  
LCO 10.9(1)"a"

**Pollutant:** Sulfur Dioxide (SO2)  
**Emission Limit(s):** 2.5 lb/MMBtu  
**Authority for Requirement:** 567 IAC 23.3(3)"b"(2)

**Pollutant:** Sulfur Dioxide (SO2)  
**Emission Limit(s):** 1.5 lb/MMBtu  
**Authority for Requirement:** LCO 10.12(1)"b"

### Operational Limits & Requirements

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

**Process throughput:**

1. No person shall allow, cause or permit the combustion of number 1 or number 2 fuel oil exceeding a sulfur content of 0.5 percent by weight.  
**Authority for Requirement:** 567 IAC 23.3(3)"b"(1)
Reporting & Recordkeeping:
The following records shall be maintained on-site for five (5) years and available for inspection upon request by representatives of the Department of Natural Resources:

1. The facility shall monitor the percent of sulfur by weight in the fuel oil as delivered. The documentation may be vendor supplied or facility generated.

Authority for Requirement: 567 IAC 22.108(3)

NSPS and NESHAP Applicability:
The National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR 63 Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, shall apply to this source pursuant to LCO 10.9(4)"zzzz" and 567 IAC 23.1(4)"cz".

Existing, Compression, Emergency ≤ 500 hp, at a Major HAP Source

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"

LCO 10.9(4)"zzzz"

**Monitoring Requirements**

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

Stack testing is not required at this time.

Opacity monitoring is not required at this time.

**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:** SEP-459, SEP-460  
**Process Area:** COGENERATION

### Table Co-Gen 1. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material /Fuel</th>
<th>Rated Capacity</th>
<th>CE</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-459</td>
<td>EU-459</td>
<td>Natural Gas Fired Boiler #3</td>
<td>Natural Gas</td>
<td>292.5 MMBtu/hr</td>
<td>CE-459</td>
<td>Advanced Ultra-Low NOx Burners with FGR</td>
</tr>
<tr>
<td>SEP-460</td>
<td>EU-460</td>
<td>Natural Gas Fired Boiler #2</td>
<td>Natural Gas</td>
<td>292.5 MMBtu/hr</td>
<td>CE-460</td>
<td>Advanced Ultra-Low NOx Burners with FGR</td>
</tr>
</tbody>
</table>

### Applicable Requirements

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

#### Table Co-Gen 2. Opacity and Particulate Matter Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Opacity</th>
<th>PM$_{10}$</th>
<th>Particulate Matter</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-459</td>
<td>EU-459</td>
<td>0%$^1$</td>
<td>0.005 lb/MMBtu$^2$</td>
<td>0.005 lb/MMBtu$^2$</td>
<td>DNR PSD Permit #07-A-579-P</td>
</tr>
<tr>
<td>SEP-460</td>
<td>EU-460</td>
<td>0.030 lb/MMBtu$^3$</td>
<td>40 CFR §60.43b Subpart Db</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>SO$_2$</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-459</td>
<td>EU-459</td>
<td>0.0006 lb/MMBtu$^5$</td>
<td>DNR PSD Permit #07-A-579-P</td>
</tr>
<tr>
<td>SEP-460</td>
<td>EU-460</td>
<td>0.17 lb/hr$^2,4$</td>
<td>DNR PSD Permit #07-A-580-P</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.20 lb/MMBtu$^6$</td>
<td>40 CFR §60.42b Subpart Db</td>
</tr>
</tbody>
</table>

#### Table Co-Gen 3. Sulfur Dioxide Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>NO$_X$</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-459</td>
<td>EU-459</td>
<td>0.02 lb/MMBtu$^{5,7}$</td>
<td>DNR PSD Permit #07-A-579-P</td>
</tr>
<tr>
<td>SEP-460</td>
<td>EU-460</td>
<td>25.62 tpy$^8$</td>
<td>DNR PSD Permit #07-A-580-P</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5.85 lb/hr$^{2,4}$</td>
<td>40 CFR §60.44b Subpart Db</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.20 lb/MMBtu$^{6,9}$</td>
<td>40 CFR §63.7500 Subpart DDDDD</td>
</tr>
<tr>
<td></td>
<td></td>
<td>400 ppm$_{wd}^{10}$</td>
<td>Subpart DDDDD</td>
</tr>
</tbody>
</table>

#### Table Co-Gen 4. Nitrogen Oxides and Carbon Monoxide Emission Limits.
Table Co-Gen 5. Other Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>VOC</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-459</td>
<td>EU-459</td>
<td>0.0054 lb/MMBtu&lt;sup&gt;2&lt;/sup&gt;</td>
<td>DNR PSD Permit #07-A-579-P</td>
</tr>
<tr>
<td>SEP-460</td>
<td>EU-460</td>
<td></td>
<td>DNR PSD Permit #07-A-580-P</td>
</tr>
</tbody>
</table>

Table Co-Gen 6. General Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Pollutant</th>
<th>Emission Limit(s)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-459</td>
<td>EU-459</td>
<td>Opacity</td>
<td>40%</td>
<td>567 IAC 23.3(2)&quot;d&quot;</td>
</tr>
<tr>
<td>SEP-460</td>
<td>EU-460</td>
<td></td>
<td>20%</td>
<td>LCO 10.7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PM</td>
<td>0.6 lb/MMBtu</td>
<td>567 IAC 23.3(2)&quot;b&quot;(2)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0.275 lb/MMBtu</td>
<td>LCO 10.8(2)&quot;b&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SO&lt;sub&gt;2&lt;/sub&gt;</td>
<td>500 ppm&lt;sub&gt;v&lt;/sub&gt;</td>
<td>567 IAC 23.3(3)&quot;e&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LCO 10.12(2)</td>
</tr>
</tbody>
</table>

<sup>1</sup> Standard is expressed as a six-minute average.

<sup>2</sup> Standard is expressed as the average of 3 test runs.

<sup>3</sup> Standard is expressed as the average of 3 test runs and applies at all times, excluding periods of startup, shutdown, and malfunction. Per 40 CFR §60.43b(h)(5), if the boilers combust only gaseous fuels with potential sulfur dioxide emission rates of 0.32 lb/MMBtu heat input or less, they are not subject to the PM limit listed above.

<sup>4</sup> The limit for PM<sub>10</sub> emissions is established to limit emissions below levels that predict exceedances of the 24-hour NAAQS, the 24-hour increment, and the annual increment for PM<sub>10</sub>. The limit for SO<sub>2</sub> emissions is established to limit emissions below levels that predict exceedances of the 3-hour, 24-hour, and annual NAAQS and increment for SO<sub>2</sub>. The limit for NO<sub>x</sub> emissions is established to limit emissions below levels that predict exceedances of the annual NAAQS and increment for NO<sub>x</sub>. The limit for CO emissions is established to limit emissions below levels that predict exceedances of the 1-hour and 8-hour NAAQS for CO.

<sup>5</sup> Standard is expressed as a 30-day rolling average.

<sup>6</sup> Standard is expressed as a 30-day rolling average and applies at all times, including periods of startup, shutdown, and malfunction.

<sup>7</sup> The NO<sub>x</sub> and CO pound per million Btu standards apply at all times, except during periods of startup, shutdown, or malfunction.

<sup>8</sup> The NO<sub>x</sub> and CO ton per year standards are expressed as a 12-month rolling total and apply at all times, including during periods of startup, shutdown, or malfunction.

<sup>9</sup> The boilers may comply with an optional limit of 270 ng/J (2.1 lb/MWh) gross energy output, based on a 30-day rolling average. Units complying with this output-based limit must demonstrate compliance according to the procedures of 40 CFR §60.48Da(i), and must monitor emissions according to 40 CFR §60.49Da(c), and (k) through (n).

<sup>10</sup> Standard is a 30-day rolling average, corrected to 3% O<sub>2</sub>, and applies at all times, except during periods of startup, shutdown, malfunction, and when your boilers or process heater is operating at less than 50% of rated capacity.
Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Control Device:
Advanced ultra-low NOx burners with flue gas recirculation will be used to reduce nitrogen oxide emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors, and gauges needed to measure the parameters outlined in [Operating Condition Monitoring and Recordkeeping] shall be installed, maintained, and operating during the operation of the emission unit and control devices at all times.

Authority for Requirement:   LCPH ATI 5238 / PTO 5789
   LCPH ATI 5239 / PTO 5790

NSPS and NESHAP Applicability:
This emission unit is subject to Subpart A - General Provisions (40 CFR §60.1 through 40 CFR §60.19) of the New Source Performance Standards (NSPS) and Subpart Db - Standards of Performance for Industrial, Commercial, Institutional Steam Generating Units (40 CFR §60.40b through 40 CFR §60.49b) and is also subject to the requirements of 567 IAC 23.1(2)"ccc".

As provided in 40 CFR §63.7480 through 40 CFR §63.7570, this emission unit is subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart DDDDD - Industrial, Commercial, and Institutional Boilers and Process Heaters as a new large gaseous fuel unit with a heat input greater than 100 MMBtu/hr. This emission unit is also subject to Subpart A - General Provisions (40 CFR §63.1 through 40 CFR §63.15) and is also subject to the requirements of 567 IAC 23.1(4)"dd".

Authority for Requirement:   DNR PSD Permit #07-A-579-P
   DNR PSD Permit #07-A-580-P

Operating Limits:
A. The owner or operator shall furnish the Department with final detailed plans and specifications for all emission control equipment selected by the owner to meet the emission limits contained in Tables Co-Gen 2, 3, 4, 5, and 6. In addition, the facility shall detail all revisions made to the affected emission units and provide a startup, shutdown, and malfunction plan (SSMP) for the emission unit and control device. This information shall be submitted to the Department at least 30 days in advance of construction of any control equipment.

B. The owner or operator shall operate and maintain Boilers #3 and #2 and all control equipment according to the provisions in 40 CFR §63.6(e).

C. The owner or operator shall develop and implement a written startup, shutdown, and malfunction plan (SSMP) for Boilers #3 and #2, according to the provisions in 40 CFR §63.6(e).

D. Boilers #3 and #2 shall be limited to firing on natural gas only.

Authority for Requirement:   DNR PSD Permit #07-A-579-P
   DNR PSD Permit #07-A-580-P
Operating Condition Monitoring:
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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. The owner or operator shall maintain records of fuel supplier certifications of sulfur content reported in pounds per million Btu of the fuels burned in Boilers #3 and #2. The facility shall request monthly fuel certification from the vendor unless the certification of the sulfur content from the previous month did not change. The owner or operator shall maintain a record of the date they contacted the vendor to determine if the certification is still valid. The facility shall request a new certification if the previous month’s certification of the sulfur content is no longer representative of the boilers' combusted fuel. The facility may use preliminary data available from the vendor to determine the sulfur content of the fuel. If the preliminary data indicate that the sulfur content is within 90% of the emission limit established in Permit Condition 10a, the facility shall request a formal certification from the supplier of the sulfur content of the fuel.

B. The owner or operator shall follow the notification, recordkeeping, and reporting requirements of 40 CFR §60.49b and 40 CFR §63.7550.

C. The owner or operator of an affected facility subject to the nitrogen oxides standards under 40 CFR §60.44b shall maintain records of the following information for each steam generating unit operating day:

1) Calendar date.

2) The average hourly nitrogen oxides emission rates (expressed and NO2) (ng/J or lb/MMBtu heat input) measured or predicted.

3) The 30-day average nitrogen oxides emission rates (ng/J or lb/MMBtu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days.

4) Identification of the steam generating unit operating days when the calculated 30-day average nitrogen oxides emission rates are in excess of the nitrogen oxides emission standards under 40 CFR §60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken.

5) Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken.

6) Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data.

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

8) Identification of the times when the pollutant concentration exceed full span of the continuous monitoring system.
9) Description of any modifications to the continuous monitoring system that could affect the ability of the continuous monitoring system to comply with Performance Specification 2 or 3.

10) Results of daily CEMS drift tests and quarterly accuracy assessments, as required under 40 CFR §60, Appendix F, Procedure 1.

D. The owner or operator shall maintain records of monthly fuel use by Boilers #3 and #2, including the type of fuel and amount according to 40 CFR §63.7555 and 40 CFR §63.7560.

E. The owner or operator shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the control equipment and the monitoring devices.

Authority for Requirement: DNR PSD Permit #07-A-579-P
DNR PSD Permit #07-A-580-P

**Emission Point Characteristics**

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

**Table Co-Gen 7.**

<table>
<thead>
<tr>
<th>EP</th>
<th>LCPH Numbers</th>
<th>Stack Characteristics</th>
<th>Stack Opening (inches, dia.)</th>
<th>Exhaust Temp. (°F)</th>
<th>Exhaust Flow Rate (scfm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-459</td>
<td>5238 / 5789</td>
<td>75 Vertical, unobstructed</td>
<td>78</td>
<td>294</td>
<td>72,000</td>
</tr>
<tr>
<td>SEP-460</td>
<td>5239 / 5790</td>
<td>75 Vertical, unobstructed</td>
<td>78</td>
<td>294</td>
<td>72,000</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.*

**Stack Testing:**
The following stack tests shall be performed:

- Pollutant – Volatile Organic Compounds (VOC)¹
- 1st Stack Test to be Completed by – within first two years of permit term
- Test Method – Method 25A (40 CFR Part 60, Appendix A)
- Authority for Requirement – 567 IAC 22.108(3)

¹ ADM may choose to perform the required tests on either Natural Gas Fired Boiler #3 or #2. One set of tests may be used to represent emissions and compliance from both Natural Gas Fired
Boilers #3 and #2. If the test results for any pollutant are 90% or above of the applicable standard, additional testing of both boilers shall be required. A test protocol must be approved by the Department's stack testing personnel prior to testing.

**Opacity Monitoring:**
Opacity monitoring is not required at this time.

**Continuous Emission Monitoring:**
Per 40 CFR §60.48b, the owner or operator shall demonstrate compliance with the nitrogen oxide emission limits of this permit through the use of a continuous emission monitoring system (CEMS). The facility shall install, calibrate, maintain, and operate a CEMS for measuring nitrogen oxides emissions discharged to the atmosphere. CEMS shall be installed, evaluated, operated, and date collected, as required under 40 CFR §60.48b(c), (d), (e), and (f).

Per 40 CFR §63.7525, the owner or operator shall demonstrate compliance with the carbon monoxide emission limits of this permit through the use of a CEMS. The facility shall install, operate, and maintain a CEMS for carbon monoxide and oxygen, as required under 40 CFR §63.7525(a)(1) through (a)(6).

The CEMS required by this permit shall be operated and data recorded during all periods of operation of the boilers, except for CEMS breakdown and repairs. Data shall be recorded during calibration checks, and zero and span adjustments.

Authority for Requirement:   DNR PSD Permit #07-A-579-P  
DNR PSD Permit #07-A-580-P

**Agency Approved Operation & Maintenance Plan Required?**    Yes ☐ No ☑

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

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

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

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

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

Authority for Requirement:  567 IAC 22.108(3)
Emission Point ID Number: SEP-501  
Process Area: COGENERATION

### Table Co-Gen 8. Emission Point Description.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-501</td>
<td>EU-501A</td>
<td>Co-Gen Boiler #1</td>
<td>Coal</td>
<td>551.50 MMBtu/hr</td>
</tr>
<tr>
<td>SEP-501</td>
<td>EU-501AN</td>
<td>Co-Gen Boiler #1</td>
<td>Natural Gas</td>
<td>0.22 MMCF/hr</td>
</tr>
<tr>
<td>SEP-501</td>
<td>EU-501BF</td>
<td>Co-Gen Boiler #1</td>
<td>Fuel Oil</td>
<td></td>
</tr>
<tr>
<td>SEP-501</td>
<td>EU-501B</td>
<td>Co-Gen Boiler #2</td>
<td>Coal</td>
<td>551.50 MMBtu/hr</td>
</tr>
<tr>
<td>SEP-501</td>
<td>EU-501BN</td>
<td>Co-Gen Boiler #2</td>
<td>Natural Gas</td>
<td>0.22 MMCF/hr</td>
</tr>
<tr>
<td>SEP-501</td>
<td>EU-501BF</td>
<td>Co-Gen Boiler #2</td>
<td>Fuel Oil</td>
<td></td>
</tr>
</tbody>
</table>

### Table Co-Gen 9. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>CE ID</th>
<th>CE Description</th>
<th>ME ID</th>
</tr>
</thead>
</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 Co-Gen 10. Opacity Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>Opacity</th>
<th>Authority for Requirement</th>
</tr>
</thead>
</table>
| SEP-501 | 20%, 6-minute average except for one 6-minute period per hour of not more than 27% | 40 CFR §60.43b(f) Subpart Db  
40 CFR §60.46b(a) Subpart Db  
567 IAC 23.1(2)"ccc"  
LCO 10.9(2)"a"(55) |
| SEP-501 | 20%                              | LCO 10.7                                                                                 |
### Table Co-Gen 11. Particulate Matter Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>PM-10</th>
<th>Particulate Matter</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-501</td>
<td>0.03 lb/MMBtu</td>
<td>0.03 lb/MMBtu</td>
<td>DNR PSD Permit #86-A-090P1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>DNR PSD Permit #86-A-091P1</td>
</tr>
<tr>
<td>SEP-501</td>
<td>0.051 lb/MMBtu</td>
<td></td>
<td>40 CFR §60.43(b)(a)(1) Subpart Db</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>40 CFR §60.46(b)(a) Subpart Db</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>567 IAC 23.1(2)&quot;ccc&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>LCO 10.9(2)&quot;a&quot;(55)</td>
</tr>
</tbody>
</table>

### Table Co-Gen 12. Sulfur Dioxide (SO2) Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>Sulfur Dioxide (SO2)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-501</td>
<td>0.45 lb/MMBtu, 30-day rolling average(^3,7) 90% reduction of equivalent inlet SO₂ rate(^3,6,7), 30-day rolling average</td>
<td>DNR PSD Permit #86-A-090P1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DNR PSD Permit #86-A-091P1</td>
</tr>
<tr>
<td>SEP-501</td>
<td>0.20 lb/MMBtu, 30-day rolling average(^3,8)</td>
<td>DNR PSD Permit #86-A-090P1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DNR PSD Permit #86-A-091P1</td>
</tr>
<tr>
<td>SEP-501</td>
<td>1.03 lb/MMBtu, 3-hour rolling average(^9)</td>
<td>DNR PSD Permit #86-A-090P1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DNR PSD Permit #86-A-091P1</td>
</tr>
<tr>
<td>SEP-501</td>
<td>1.2 lb/MMBtu 90% reduction of equivalent inlet SO₂ rate, 30-day rolling average</td>
<td>40 CFR §60.42(b)(a), (e), (g), Subpart Db</td>
</tr>
<tr>
<td></td>
<td></td>
<td>40 CFR §60.45(b)(a) Subpart Db</td>
</tr>
<tr>
<td></td>
<td></td>
<td>567 IAC 23.1(2)&quot;ccc&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LCO 10.9(2)&quot;a&quot;(55)</td>
</tr>
<tr>
<td>SEP-501</td>
<td>1.5 lb/MMBtu when burning liquid fuel</td>
<td>LCO 10.12(1)&quot;b&quot;</td>
</tr>
<tr>
<td>SEP-501</td>
<td>5 lb/MMBtu, 2-hour rolling average, when burning solid fuel</td>
<td>LCO 10.12(1)&quot;a&quot;</td>
</tr>
<tr>
<td>SEP-501</td>
<td>500 ppmv</td>
<td>567 IAC 23.3(3)&quot;e&quot;</td>
</tr>
</tbody>
</table>
**Table Co-Gen 13. Nitrogen Oxides and Carbon Monoxide Emission Limits.**

<table>
<thead>
<tr>
<th>EP</th>
<th>NOX</th>
<th>CO</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-501</td>
<td>TBD$^{1,5}$</td>
<td>0.20 lb/MMBtu, 3-hour average$^9$</td>
<td>DNR PSD Permit #86-A-090P1 DNR PSD Permit #86-A-091P1</td>
</tr>
<tr>
<td>SEP-501</td>
<td>260 ng/J, 0.6 lb/MMBtu, 30-day rolling average</td>
<td></td>
<td>40 CFR §60.44b(a) Subpart Db 40 CFR §60.44b(h)-(i) Subpart Db 40 CFR §60.46b(a) Subpart Db 567 IAC 23.1(2)&quot;ccc&quot; LCO 10.9(2)&quot;a&quot;(55)</td>
</tr>
<tr>
<td>SEP-501</td>
<td>0.07 lb/MMBtu, 30-day rolling average$^5$</td>
<td></td>
<td>LCPH ATI 6131 / PTO 6267</td>
</tr>
</tbody>
</table>

**Table Co-Gen 14. Other Emission Limits.**

<table>
<thead>
<tr>
<th>EP</th>
<th>Fluorides</th>
<th>Lead</th>
<th>Beryllium</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-501</td>
<td>0.75 lb/hr, 3-hour average$^9$</td>
<td>&lt;1.24x10$^{-4}$ lb/MMBtu, 0.068 lb/hr</td>
<td>&lt;8.28x10$^{-8}$ lb/MMBtu, &lt;4.56x10$^{-5}$ lb/hr</td>
<td>DNR PSD Permit #86-A-090P1 DNR PSD Permit #86-A-091P1</td>
</tr>
<tr>
<td>SEP-501</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Standard is expressed as the average of three (3) runs.
2. Standard is a 12-month rolling total.
3. Standard is a 30-day rolling average.
4. This emission limit is waived for the specific optimization study activity as detailed in Operating Limits item C not to extend more than 365 days after the modifications have been completed.
5. This standard is a 30-day rolling average that includes all periods of operation except for cold startup periods. A cold startup period is defined as that period of time when a coal-fired cogen boiler is proceeding to increase the temperature in the lower combustor from less than 400° F to at least 1,500° F. This period shall last no more than forty-eight (48) hours and NOx emissions data from this period shall be excluded when determining compliance with the permitted emission limit. Ammonia injection shall begin as soon as the lower combustor temperature reaches 1,500° F and the cold startup period will end at this time. All data from cold startup periods after the first forty-eight (48) hours, or while ammonia is injected in the boiler, will be included in determining compliance with the optimized limit.
6. The equivalent inlet SO2 emission rate means the stack emissions (on a lb/MMBtu heat input basis) that would result from the combustion of “as fired” coal in the boiler without SO2 absorption, assuming 100% conversion of sulfur in the coal to SO2.
7. When SO2 inlet > 2.0 lb/MMBtu.
8. When SO2 inlet < 2.0 lb/MMBtu.
9. Standard is a 3-hour rolling average.
Operational Limits & Requirements

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

Operating Limits:

Operating limits for this emission source are:

A. The fuel combusted shall be limited to gas (for startup), oil (for startup), and coal.

B. The owner or operator must receive an approval from the IDNR central office before a fuel other than specified above is combusted in the boilers. The IDNR shall reevaluate the fuel and may impose best available control technology (BACT) emission standards (including a percent reduction requirement) for the fuel type (or combination) in question. Other PSD-related procedures (e.g., dispersion modeling studies) may also be required.

C. The owner/operator may conduct a study on the boiler to determine the optimized performance of the system within one year after the startup date. In lieu of submitting a study plan and conducting a study, ADM may submit documentation showing that a boiler is equivalent in design, size and operation to a unit for which an optimization study has already been completed and approved, and request that the results of the earlier study be applied to the equivalent unit(s). The Department shall review the optimization study and revise the NOx emission limit as the Department determines is appropriate so as to reflect optimized performance of the system as indicated by the SNCR percent NOx reduction for the various operating conditions tested. The Department will include a margin of up to twenty percent (20%) to provide for excess emissions over an averaging period adequate to reflect the variability of the operating parameters the Department determines have the dominant impact on emission rates. Prior to initiating the study, ADM shall submit a detailed study plan for the IDNR approval including the specific dates of the optimization study and the boiler operation conditions to be tested. The optimization study shall monitor and record, but not limited to, the following items:

1) reagent injection rates,
2) boiler NOx prior to injection,
3) reagent injection to boiler NOx ratios,
4) boiler temperature,
5) CO, SO2, and chlorine levels prior to injection,
6) boiler load in MMBtu/hr and percent of rated capacity,
7) steam generation rate,
8) bed calcium to sulfur ratios,
9) fuel type, percent ash and percent sulfur,
10) NOx emission rate,
11) SNCR NOx emission reduction in percent,
12) ammonia emission rates, and
13) opacity.

D. This information shall be collected or calculated hourly during the study unless otherwise specified in the detailed study plan to be submitted by ADM as approved by the IDNR. In addition, at least three separate visible emission tests shall be conducted for each set of operation/injection conditions identified for the study. Within one year after beginning operation, the optimization study data and report shall be submitted to the IDNR.
E. ADM shall also submit a summary of study activities with the Quarterly CEM reports covering the same time period as the CEM report.

F. The owner shall furnish the IDNR written reports as follows:

1) Initial Compliance Demonstration Reports required in Condition 13 [of PSD permit #86-A-091-P1].
2) CEMS performance evaluation.
3) The maximum heat input capacity data from the demonstration of the boiler’s maximum heat input capacity.
4) The owner shall submit a written emissions report to the IDNR central office each calendar quarter. Reports shall be submitted to the IDNR postmarked no later than 30 days after the end of the calendar quarter starting with the quarter in which initial startup of the boiler occurs. The report shall include the following:
   a. Calendar dates covered by the report,
   b. Dates and hours of startup, shutdown or malfunction,
   c. Type, quality and quantity of fuel combusted,
   d. Each hourly SO₂ and NOₓ emissions, a summary of excess opacity emissions and diluent gas emission rate as well as each operating day’s 30-day average SO₂ and NOₓ. Emission rate and percent SO₂ reduction determined during the reporting period,
   e. Each instance of excess emissions and of non-standard or manual data collection and how those data were collected. Where data was excluded, exceeded full span of the CEMS or was not available for any other reason, together with reasons for each of these instances of noncompliance and a description of the corrective actions taken, and any statistics required pursuant to 40 CFR §60.49b(m),
   f. “F” factor, method of determination and fuel description,
   g. Description of any modification to the CEMS and its potential effect on CEMS performance,
   h. Results of daily CEMS drift test and quarterly accuracy assessments and related data as required under 40 CFR Part 60 Appendix F,
   i. Coal sampling and analysis results,
   j. Lead (Pb) quarterly test results.

G. The owner or operator shall record the amounts of each fuel combusted during each day and calculate a new annual capacity factor for each fuel type at the end of each calendar month as specified in 40 CFR §60.49b(d).

H. The owner or operator shall record the amounts of each fuel combusted during each day and calculate the annual capacity factor individually according to 40 CFR §60.49b(d).

I. The owner or operator shall record the net actual electrical output to any utility power distribution system for sale annually, calculated as an average over any three (3) calendar year period.

J. The owner or operator shall furnish the IDNR with final detailed plans and specifications for all emission control equipment selected by the owner to meet the emission limits contained in Tables Co-Gen 10, 11, 12, 13, and 14. This information shall be submitted to the IDNR at least 30 days in advance of construction of any control equipment.
Operating Condition Monitoring
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. These records shall show the following:

A. The owner or operator shall maintain a record of periods of startup, shutdown, or malfunction. Operating hours shall be averaged on a 12-month basis rolled over monthly.

B. The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month as specified in 40 CFR §60.49b(d).

C. The owner or operator shall maintain records of the net actual electrical output to any utility power distribution system for sale annually, calculated as an average over any three (3) calendar year period.

Authority for Requirement: DNR Permit #86-A-090P1
DNR Permit #86-A-091P1

Continuous Emission Monitoring:
The owner or operator shall continuously demonstrate compliance with the SO₂ and NOₓ emission limitations and SO₂ percent reduction requirements of this permit, in part, through the use of continuous emission monitoring systems (CEMS). The owner shall install, calibrate, operate, maintain, audit, and record the output from CEMS capable of measuring SO₂, NOₓ, and the appropriate diluent gas (oxygen or carbon dioxide). The CEMS shall be installed, calibrated, operated, maintained and audited, and data recorded in accordance with the provisions found at 40 CFR §60.13 (Monitoring Requirements), 40 CFR Part 60, Appendix B, Performance Specifications 2 and 3 (Specification and Test Procedures for SO₂, NOₓ, and diluent CEMS), and 40 CFR Part 60, Appendix F (Quality Assurance Requirements for Gas CEMS Used for Compliance Determinations).

The CEMS shall be operated and data recorded during any period any fuel is combusted in the boilers. Hourly parts-per-million data recorded by the pollutant CEMS shall be converted to lb-pollutant per million Btus (lb/MBtus) heat input using the equations and methodology specified in 40 CFR Part 60, Appendix A, Method 19 (as it appears in the July 1, 1992, Code of Federal Regulations). Hourly emission rate data shall be recorded and used by the owner or operator to calculate compliance with the applicable emission rates and percent reductions for the specified averaging times.

The owner or operator shall also install, operate, and maintain a fuel sampling and analysis (FSA) system to collect “as fired” fuel data. The FSA system shall meet or exceed the design and performance specifications set forth in 40 CFR Part 60, Appendix A, Method 19 (incorporating by reference of ASTM Method D2234-76, et al.). As specified by Method 19, at least a minimum number of sample increments shall be collected at a location immediately preceding each day bunker, composited, and analyzed daily. Coal analyses shall be conducted for weight percent sulfur (%S) and gross heat value (GHV, expressed in BTUs/lb-coal).
The owner may develop an in-house coal analysis program or may send collected samples to a laboratory for analysis. In either case, the analytical results shall be available to the proposed boiler operator within 72 hours of the sample collection time.

The “as fired” fuel data shall be used in conjunction with the SO2 CEMS emission rate data to determine compliance with the SO2 30-day rolling percent reduction limit.

The owner shall calculate an equivalent SO2 rate for each bunker using the weight percent sulfur and the gross heating value obtained through daily FSA, using the following equation:

$$\text{Equivalent SO}_2 \text{ Inlet Rate of Individual Bunker} = \frac{\%S}{GHV} \times K$$

Where \( K = 20,000 \text{ (lb*Btu) / (%*MMBtu)} \)

If the equivalent inlet SO2 rates for coal contained in each day bunker which feeds to a single boiler differ by 0.2 lb SO2/MMBtu heat input or less, the arithmetic average of the two equivalent SO2 inlet rates shall be used as the “equivalent hourly average SO2 inlet rate” for each hourly percent reduction calculation during the boiler operation day.

Otherwise, the owner shall: (1) use the smaller of the two equivalent SO2 inlet rates as the “equivalent hourly average SO2 inlet rate” for each hourly percent reduction calculation during the boiler operating day or (2) calculate an “equivalent hourly average SO2 inlet rate” for each hour of operation using the following heat input weighted equation.

$$\text{Equivalent Hourly Average SO}_2 \text{ Inlet Rate} = \frac{(W_1 \times \%S_1) + (W_2 \times \%S_2)}{(W_1 \times GHV_1) + (W_2 \times GHV_2)} \times K$$

\( W_1 \) = Tons of coal fed to first of paired day bunkers during hour
\( W_2 \) = Tons of coal fed to second of paired day bunkers during hour
\( \%S_1 \) = Weight percent sulfur of coal contained in first bunker
\( \%S_2 \) = Weight percent sulfur of coal contained in second bunker
\( GHV_1 \) = Gross heating value of coal contained in first bunker
\( GHV_2 \) = Gross heating value of coal contained in second bunker
\( K \) = 20,000 (lb*Btu) / (%*MMBtu)

The existing continuous monitoring system for measuring the opacity of emissions discharged into the atmosphere shall be operated, and maintained during all periods of operation of the boiler except for continuous monitoring system breakdowns and repairs. Operation shall be in conformance with 40 CFR §60.48b which includes recording the output of the system. Reporting and recordkeeping requirements shall be in conformance with 40 CFR §60.49b which shall include filing a quarterly report of excess emissions as outlined therein.

Authority for Requirement:  DNR Permit #86-A-090P1
DNR Permit #86-A-091P1

Continuous Emission Monitoring and Fuel Sampling Analysis:
For CFBC Boiler #4 and for SO2 emissions from CFBC Boilers #1, 2, 3:

A. \( \text{SO}_2 \) and \( \text{NO}_x \).

The owner shall continuously demonstrate compliance with the \( \text{SO}_2 \) and \( \text{NO}_x \) emission limitations and \( \text{SO}_2 \) percent reduction requirements of this permit through the use of a continuous emission monitoring system (CEMS) and a fuel sampling and analysis (FSA) system. These
systems shall be installed, operating and calibrated prior to beginning the initial compliance
demonstration set forth in ["Compliance Demonstrations" of SEP-502] according to 40 CFR
§60.13.

In the case where a CEMS is to be used as the test method for demonstrating compliance, the
performance certification report shall be submitted to IDNR prior to initiating the facility
compliance testing.

Compliance with the SO₂ and NOₓ emission rate limitations and the SO₂ percent reduction
requirements shall be calculated as the average of all valid hourly emission rate data and valid
hourly SO₂ percent reduction data for the 30 previous boiler operating days during which each
standard applies. The owner shall calculate a new 30-day average at the end of each boiler
operating day.

Unless otherwise approved by the Department, the selection of the CEMS span value (maximum
data display output) for each parameter shall be those specified in Subpart Db of the Code of
Federal Regulations.

In addition to the provisions of 40 CFR Part 60, Appendix B, the performance specifications
applicable to the CEMS required by the permit shall include a data recovery requirement of 90%
and shall meet precision and accuracy requirements of 10 percent and 10 percent of the
applicable standard respective, unless otherwise specified in the permit. When the minimum data
requirements of the permit cannot be obtained, the methods and procedures of 40 CFR
§60.47b(c) and §60.48b(F) shall be employed by the owner to obtain the required data.

1. 30-Day Rolling NOₓ and SO₂ Emission Rate Compliance

The owner shall install, calibrate, operate, maintain, audit, and record the output from CEMS
capable of measuring SO₂, NOₓ, and the appropriate diluent gas (oxygen or carbon dioxide). The
CEMS shall be installed, calibrated, operated, maintained, and audited. Data shall be recorded in
accordance with the provisions found at 40 CFR §60.13 [Monitoring Requirements]; 40 CFR
Part 60, Appendix B, Performance Specifications 2 and 3 [Specification and Test Procedures for
SO₂, NOₓ, and diluent CEMS]; and 40 CFR Part 60, Appendix F [Quality Assurance
Requirements for Gas CEMS Used for Compliance Determinations], as adopted by the
Department by reference.

The CEMS shall be operated and data recorded during any period any fuel is combusted in the
boiler. Hourly parts-per-million data recorded by the pollutant CEMS shall be converted to
pound of pollutant per million Btu (lb/MMBtu) heat input using the equations and methodology
specified in 40 CFR Part 60, Appendix A, Method 19 (as it appears in the July 1, 1992, Code of
Federal Regulations). Hourly emission rate data shall be recorded and used by the
owner/operator to calculate compliance with the applicable emission rates and percent reductions
for the specified averaging times.

The owner shall successfully complete SO₂ and NOₓ CEMS performance evaluations including
relative accuracy and calibration drift assessment evaluations prior to beginning the initial
compliance demonstration.

The owner shall notify the DNR central office at least 30 days in advance of conducting any
relative accuracy test.
2. SO₂ Percent Reduction Compliance

The owner shall install, calibrate, operate, and maintain a fuel sampling and analysis (FSA) system to collect "as-fired" fuel data. The FSA system shall meet or exceed the design and performance specifications set forth in 40 CFR Part 60, Appendix A, Method 19 (incorporating by reference of ASTM Method D2234-76, et al.).

Analyses shall be performed for weight percent sulfur (\(\%S\)) and gross heat value (\(\text{GHV}\), expressed in Btu/lb-coal). The owner may develop an in-house coal analysis program or may send collected samples to a laboratory for analysis. In either case, the analytical results shall be available to the proposed boiler operator within 72 hours of the sample collection time.

The "as-fired" fuel data shall be used to determine the equivalent hourly average SO₂ inlet rate to the boiler, and shall be used in conjunction with the SO₂ CEMS emission rate data to determine compliance with the SO₂ 30-day rolling percent reduction limit.

The owner shall calculate an equivalent SO₂ rate for each bunker using the weight percent sulfur and the gross heating value obtained through daily FSA, using the following equation:

\[
\text{Equivalent SO}_2 \text{ Inlet Rate of Individual Bunker} = \frac{\%S}{\text{GHV}} \times K
\]

Where \(K = 20,000 \text{ (lb*Btu)/(\%*MMBtu)}\)

If the equivalent inlet SO₂ rates for coal contained in each day bunker which feeds to a single boiler differ by 0.2 lb SO₂/MMBtu heat input or less, the arithmetic average of the two equivalent SO₂ inlet rates shall be used as the "equivalent hourly average SO₂ inlet rate" for each hourly percent reduction calculation during the boiler operation day.

Otherwise, the owner shall: (1) use the smaller of the two equivalent SO₂ inlet rates as the "equivalent hourly average SO₂ inlet rate" for each hourly percent reduction calculation during the boiler operating day; or (2) calculate an "equivalent hourly average SO₂ inlet rate" for each hour of operation using the following heat input weighted equation.

\[
\text{Equivalent Hourly Average SO}_2 \text{ Inlet Rate} = \frac{\left(W_1 \times \%S_1\right) + \left(W_2 \times \%S_2\right)}{\left(W_1 \times \text{GHV}_1\right) + \left(W_2 \times \text{GHV}_2\right)} \times K
\]

\(W_1\) = Tons of coal fed to first of paired day bunkers during hour
\(W_2\) = Tons of coal fed to second of paired day bunkers during hour
\(\%S_1\) = Weight percent sulfur of coal contained in first bunker
\(\%S_2\) = Weight percent sulfur of coal contained in second bunker
\(\text{GHV}_1\) = Gross heating value of coal contained in first bunker
\(\text{GHV}_2\) = Gross heating value of coal contained in second bunker

\(K = 20,000 \text{ (lb*Btu)/(\%*MMBtu)}\)

B. Particulate (PM₁₀)

The existing continuous monitoring system for measuring the opacity of emissions discharged into the atmosphere shall be operated, and maintained during all periods of operation of the boiler except for continuous monitoring system breakdowns and repairs. Operation shall be in conformance with 40 CFR §60.48b which includes recording the output of the system. Reporting and recordkeeping requirements shall be in conformance with 40 CFR §60.49b which shall include filing a quarterly report of excess emissions as outlined therein.
C. Lead (Pb) and Beryllium (Be)

Coal samples shall be analyzed for Lead (Pb) and Beryllium (Be) and the results submitted in writing to the IDNR on a quarterly basis. Fuel Sampling shall be conducted as specified in Condition A.2 above. Sample Analysis for Lead (Pb) and Beryllium (Be) shall be performed as specified in SW-846 Method 6010. The test results shall be reported as specified below.

The owner shall submit a written emissions report to the IDNR central office each calendar quarter. Reports shall be submitted to the IDNR postmarked no later than 30 days after the end of the calendar quarter starting with the quarter in which initial startup of the boiler occurs. The report shall include the following:

- Calendar dates covered by the report,
- Dates and hours of startup, shutdown or malfunction,
- Type, quality and quantity of fuel combusted,
- Each hourly SO₂, NOₓ, opacity and diluent gas emission rate as well as each operating day's 30-day average SO₂, and NOₓ emission rate and percent SO₂, reduction determined during the reporting period,
- Each instance of excess emissions, and of non-standard or manual data collection and how those data were collected. Where data was excluded, exceeded full span of the CEMS or was not available for any other reason, together with reasons for each of these instances of noncompliance and a description of the corrective actions taken, and any statistics required pursuant to 40 CFR §60.49b(m),
- "F" factor, method of determination and fuel description,
- Description of any modification to the CEMS and its potential effect on CEMS performance,
- Results of daily CEMS drift test and quarterly accuracy assessments and related data as required under 40 CFR Part 60 Appendix F,
- Coal sampling and analysis results,
- PM₁₀, Lead (Pb) and Beryllium (Be) quarterly test results.

All data, records, reports, documentation, and calculations required under this permit shall be available at the plant during normal business hours for inspection and copying by federal, state, or local air pollution regulatory agencies and their authorized representatives for a minimum of five (5) years from the date of recording.

Authority for Requirement:  DNR PSD Permit 93-A-324-S1

Operating Condition Monitoring:
For CFBC Boilers #1, 2, 3 and 4, the owner shall maintain a record of periods of startup, shutdown or malfunction. Operating hours shall be averaged on a 12-month basis rolled over monthly.

Authority for Requirement:  DNR PSD Permit #93-A-324-S1

NSPS General Requirements:
These boilers are subject to 40 CFR Part 60 NSPS Subpart Db, Standards of Performance for Industrial, Commercial, Institutional Steam Generating Units.

The permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control
equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. 40 CFR §60.7(b)

The permittee shall submit an excess emissions and monitoring systems performance report to the Department and Administrator in accordance with 40 CFR §60.7(c). The summary report form shall contain the information and format required in 40 CFR §60.7(d).

Notwithstanding the frequency of reporting requirements in the prior permit conditions, the permittee may reduce the frequency of reporting of excess emissions and monitoring system performance reports pursuant to 40 CFR §60.7(e).

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR §60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment, or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR §60.12

Authority for Requirement: 567 IAC 23.1(2)

Existing Large Solid Fuel Subcategory:
These emission units are subject to Subpart A – General Provisions (40 CFR §63.1 through 40 CFR §63.15) of the National Emission Standards for Hazardous Air Pollutants (NESHAP) and Subpart DDDDD – NESHAP for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (40 CFR §63.7480 through 40 CFR §63.7575).

Authority for requirement: NESHAP Subpart A
NESHAP Subpart DDDDD

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

Stack Height, (ft, from the ground): 350
Discharge Style: Vertical, unobstructed
Stack Opening, (inches, diameter): 138
Exhaust Temperature (°F): 358°F
Exhaust Flow Rate (acfm): 403,000 (combined Boilers #1 and #2)

Authority for Requirement: DNR PSD Permit #86-A-090P1
DNR PSD Permit #86-A-091P1
LCPH ATI 6131 / PTO 6267

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:**
Stack testing is not required at this time.

**Continuous Emissions Monitoring:**

<table>
<thead>
<tr>
<th>Pollutant:</th>
<th>Nitrogen Oxides (NO&lt;sub&gt;x&lt;/sub&gt;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous Emissions Monitor ID:</td>
<td>ME-501A for Boiler #1</td>
</tr>
<tr>
<td>Operational Specifications:</td>
<td>40 CFR Part 60</td>
</tr>
<tr>
<td>Date of Most Recent System Calibration &amp; Quality Assurance:</td>
<td>May 4, 2016</td>
</tr>
<tr>
<td>Ongoing System Calibration/Quality Assurance:</td>
<td>40 CFR Part 60, Appendix F</td>
</tr>
<tr>
<td>Reporting &amp; Recordkeeping:</td>
<td>40 CFR Part 60, Appendix A and B</td>
</tr>
<tr>
<td>Authority for Requirement:</td>
<td>40 CFR Part 60 Subpart Db 567 IAC 23.1(2)&quot;ccc&quot; LCO 10.9(2)&quot;a&quot;(55)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pollutant:</th>
<th>Nitrogen Oxides (NO&lt;sub&gt;x&lt;/sub&gt;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous Emissions Monitor ID:</td>
<td>ME-501B for Boiler #2</td>
</tr>
<tr>
<td>Operational Specifications:</td>
<td>40 CFR Part 60</td>
</tr>
<tr>
<td>Date of Most Recent System Calibration &amp; Quality Assurance:</td>
<td>May 4, 2016</td>
</tr>
<tr>
<td>Ongoing System Calibration/Quality Assurance:</td>
<td>40 CFR Part 60, Appendix F</td>
</tr>
<tr>
<td>Reporting &amp; Recordkeeping:</td>
<td>40 CFR Part 60, Appendix A and B</td>
</tr>
<tr>
<td>Authority for Requirement:</td>
<td>40 CFR Part 60 Subpart Db 567 IAC 23.1(2)&quot;ccc&quot; LCO 10.9(2)&quot;a&quot;(55)</td>
</tr>
<tr>
<td>Pollutant:</td>
<td>Opacity</td>
</tr>
<tr>
<td>-----------</td>
<td>---------</td>
</tr>
<tr>
<td>Continuous Emissions Monitor ID:</td>
<td>ME-501C for Boilers #1 and #2</td>
</tr>
<tr>
<td>Operational Specifications:</td>
<td>40 CFR §60.13 and 40 CFR §60.45</td>
</tr>
<tr>
<td>Date of Most Recent System Calibration &amp; Quality Assurance:</td>
<td>March 2, 2016</td>
</tr>
<tr>
<td>Ongoing System Calibration/Quality Assurance:</td>
<td>40 CFR Part 60, Appendix F</td>
</tr>
<tr>
<td>Reporting &amp; Recordkeeping:</td>
<td>40 CFR Part 60, Appendix B</td>
</tr>
</tbody>
</table>
| Authority for Requirement: | DNR PSD Permit #86-A-090  
DNR PSD Permit #86-A-091  
40 CFR Part 60 Subpart Db  
567 IAC 23.1(2)"ccc"  
LCO 10.9(2)"a"(55) |

<table>
<thead>
<tr>
<th>Pollutant:</th>
<th>Sulfur Dioxide (SO₂)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous Emissions Monitor ID:</td>
<td>ME-501F for Boiler #1</td>
</tr>
<tr>
<td>Operational Specifications:</td>
<td>40 CFR Part 60</td>
</tr>
<tr>
<td>Date of Most Recent System Calibration &amp; Quality Assurance:</td>
<td>May 4, 2016</td>
</tr>
<tr>
<td>Ongoing System Calibration/Quality Assurance:</td>
<td>40 CFR Part 60, Appendix F</td>
</tr>
<tr>
<td>Reporting &amp; Recordkeeping:</td>
<td>40 CFR Part 60, Appendix A and B</td>
</tr>
</tbody>
</table>
| Authority for Requirement: | DNR PSD Permit #93-A-324-S1  
40 CFR Part 60 Subpart Db  
567 IAC 23.1(2)"ccc"  
LCO 10.9(2)"a"(55) |

<table>
<thead>
<tr>
<th>Pollutant:</th>
<th>Sulfur Dioxide (SO₂)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous Emissions Monitor ID:</td>
<td>ME-501G for Boiler #2</td>
</tr>
<tr>
<td>Operational Specifications:</td>
<td>40 CFR Part 60</td>
</tr>
<tr>
<td>Date of Most Recent System Calibration &amp; Quality Assurance:</td>
<td>May 4, 2016</td>
</tr>
<tr>
<td>Ongoing System Calibration/Quality Assurance:</td>
<td>40 CFR Part 60, Appendix F</td>
</tr>
<tr>
<td>Reporting &amp; Recordkeeping:</td>
<td>40 CFR Part 60, Appendix A and B</td>
</tr>
</tbody>
</table>
| Authority for Requirement: | DNR PSD Permit #93-A-324-S1  
40 CFR Part 60 Subpart Db  
567 IAC 23.1(2)"ccc"  
LCO 10.9(2)"a"(55) |
Other Parameters:

<table>
<thead>
<tr>
<th>Pollutant:</th>
<th>Diluent Gas (Oxygen)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous Emissions Monitor ID:</td>
<td>ME-501D for Boiler #1</td>
</tr>
<tr>
<td>Operational Specifications:</td>
<td>40 CFR Part 60</td>
</tr>
<tr>
<td>Date of Most Recent System Calibration &amp; Quality Assurance:</td>
<td>May 4, 2016</td>
</tr>
<tr>
<td>Ongoing System Calibration/Quality Assurance:</td>
<td>40 CFR Part 60, Appendix F</td>
</tr>
<tr>
<td>Reporting &amp; Recordkeeping:</td>
<td>40 CFR Part 60, Appendix A and B</td>
</tr>
<tr>
<td>Authority for Requirement:</td>
<td>DNR PSD Permit #93-A-324-S1</td>
</tr>
<tr>
<td></td>
<td>40 CFR Part 60 Subpart Db</td>
</tr>
<tr>
<td></td>
<td>567 IAC 23.1(2)&quot;ccc&quot;</td>
</tr>
<tr>
<td></td>
<td>LCO 10.9(2)&quot;a&quot;(55)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pollutant:</th>
<th>Diluent Gas (Oxygen)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous Emissions Monitor ID:</td>
<td>ME-501E for Boiler #2</td>
</tr>
<tr>
<td>Operational Specifications:</td>
<td>40 CFR Part 60</td>
</tr>
<tr>
<td>Date of Most Recent System Calibration &amp; Quality Assurance:</td>
<td>May 4, 2016</td>
</tr>
<tr>
<td>Ongoing System Calibration/Quality Assurance:</td>
<td>40 CFR Part 60, Appendix F</td>
</tr>
<tr>
<td>Reporting &amp; Recordkeeping:</td>
<td>40 CFR Part 60, Appendix A and B</td>
</tr>
<tr>
<td>Authority for Requirement:</td>
<td>DNR PSD Permit #93-A-324-S1</td>
</tr>
<tr>
<td></td>
<td>40 CFR Part 60 Subpart Db</td>
</tr>
<tr>
<td></td>
<td>567 IAC 23.1(2)&quot;ccc&quot;</td>
</tr>
<tr>
<td></td>
<td>LCO 10.9(2)&quot;a&quot;(55)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pollutant:</th>
<th>Flow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous Emissions Monitor ID:</td>
<td>ME-501H for Boiler #1 and #2</td>
</tr>
<tr>
<td>Operational Specifications:</td>
<td>40 CFR Part 60</td>
</tr>
<tr>
<td>Date of Most Recent System Calibration &amp; Quality Assurance:</td>
<td>February 23, 2016</td>
</tr>
<tr>
<td>Ongoing System Calibration/Quality Assurance:</td>
<td>40 CFR 60, Appendix F</td>
</tr>
<tr>
<td>Reporting &amp; Recordkeeping:</td>
<td>40 CFR 60, Appendix B</td>
</tr>
<tr>
<td>Authority for Requirement:</td>
<td>DNR PSD Permit #93-A-324-S1</td>
</tr>
<tr>
<td></td>
<td>40 CFR Part 60 Subpart Db</td>
</tr>
<tr>
<td></td>
<td>567 IAC 23.1(2)&quot;ccc&quot;</td>
</tr>
<tr>
<td></td>
<td>LCO 10.9(2)&quot;a&quot;(55)</td>
</tr>
<tr>
<td>Pollutant:</td>
<td>Diluent Gas (Carbon Dioxide)</td>
</tr>
<tr>
<td>--------------------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td>Continuous Emissions Monitor ID:</td>
<td>ME-501I for Boiler #1 and #2</td>
</tr>
<tr>
<td>Operational Specifications:</td>
<td>40 CFR Part 60</td>
</tr>
<tr>
<td>Date of Most Recent System Calibration &amp; Quality Assurance:</td>
<td>February 23, 2016</td>
</tr>
<tr>
<td>Ongoing System Calibration/Quality Assurance:</td>
<td>40 CFR 60, Appendix F</td>
</tr>
<tr>
<td>Reporting &amp; Recordkeeping:</td>
<td>40 CFR 60, Appendix B</td>
</tr>
<tr>
<td>Authority for Requirement:</td>
<td>DNR PSD Permit #93-A-324-S1</td>
</tr>
<tr>
<td></td>
<td>40 CFR Part 60 Subpart Db</td>
</tr>
<tr>
<td></td>
<td>567 IAC 23.1(2)“ccc”</td>
</tr>
<tr>
<td></td>
<td>LCO 10.9(2)“a”(55)</td>
</tr>
</tbody>
</table>

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 ☐

1 Compliance Assurance Monitoring is required for PM₁₀ and an agency-approved operation and maintenance plan is technically required for PM; however, as PM and PM₁₀ are controlled by the same equipment, and CAM is more stringent, the separate agency-approved operation and maintenance plan requirement is waived.

Authority for Requirement:  567 IAC 22.108(3)

Refer to Appendix B, CAM Plans, for the complete compliance assurance monitoring plan.

The SO₂ and NOₓ potentials to emit trigger Agency-approved operation & maintenance plans; however, existing CEMS at this emission point meet or exceed the Agency-approved operation & maintenance plan requirements for these pollutants.
Emission Point ID Number: SEP-502
Process Area: COGENERATION

Table Co-Gen 15. Emission Point Description.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-502</td>
<td>EU-502A</td>
<td>Co-Gen Boiler #3</td>
<td>Coal</td>
<td>551.50 MMBtu/hr</td>
</tr>
<tr>
<td>SEP-502</td>
<td>EU-502AN</td>
<td>Co-Gen Boiler #3</td>
<td>Natural Gas</td>
<td>0.22 MMCF/hr</td>
</tr>
<tr>
<td>SEP-502</td>
<td>EU-502AF</td>
<td>Co-Gen Boiler #3</td>
<td>Fuel Oil</td>
<td></td>
</tr>
<tr>
<td>SEP-502</td>
<td>EU-502B</td>
<td>Co-Gen Boiler #4</td>
<td>Coal</td>
<td>551.50 MMBtu/hr</td>
</tr>
<tr>
<td>SEP-502</td>
<td>EU-502BN</td>
<td>Co-Gen Boiler #4</td>
<td>Natural Gas</td>
<td>0.22 MMCF/hr</td>
</tr>
<tr>
<td>SEP-502</td>
<td>EU-502BF</td>
<td>Co-Gen Boiler #4</td>
<td>Fuel Oil</td>
<td></td>
</tr>
</tbody>
</table>

Table Co-Gen 16. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>CE ID</th>
<th>CE Description</th>
<th>ME ID</th>
</tr>
</thead>
</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 Co-Gen 17. Opacity Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Opacity</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-502</td>
<td>EU-502A, EU-502AN, EU-502B, EU-502BN</td>
<td>20%, 6-minute average¹ except for one 6-minute period per hour of not more than 27%</td>
<td>40 CFR §60.43b(f) Subpart Db 40 CFR §60.46b(a) Subpart Db 567 IAC 23.1(2) &quot;ccc&quot; LCO 10.9(2)&quot;a&quot;(55)</td>
</tr>
<tr>
<td>SEP-502</td>
<td>EU-502B, EU-502BN</td>
<td>20%, 6-minute average¹</td>
<td>LCPH ATI 6132 / PTO 6268 DNR PSD Permit #93-A-324-S1</td>
</tr>
</tbody>
</table>
### Table Co-Gen 18. Particulate Matter Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>PM$_{10}$</th>
<th>Particulate Matter</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-502</td>
<td>EU-502A EU-502AN</td>
<td>0.10</td>
<td>lb/MBtu</td>
<td>40 CFR §60.42b(a)(2) Subpart Db 567 IAC 23.1(2)&quot;ccc&quot; LCO 10.9(2)&quot;a&quot;(55)</td>
</tr>
<tr>
<td>SEP-502</td>
<td>EU-502AN</td>
<td>0.03</td>
<td>lb/MBtu</td>
<td>DNR Permit #90-A-083P1</td>
</tr>
<tr>
<td>SEP-502</td>
<td>EU-502B EU-502BN</td>
<td>0.051</td>
<td>lb/MBtu</td>
<td>40 CFR §60.43b(a)(1) Subpart Db 40 CFR §60.46(b)(a) Subpart Db 567 IAC 23.1(2)&quot;ccc&quot; LCO 10.9(2)&quot;a&quot;(55)</td>
</tr>
<tr>
<td>SEP-502</td>
<td>EU-502B EU-502BN</td>
<td>0.03</td>
<td>lb/MBtu, 3-hour average</td>
<td>DNR PSD Permit #93-A-324-S1</td>
</tr>
<tr>
<td>SEP-502</td>
<td>EU-502A EU-502AN EU-502B EU-502BN</td>
<td>16.55</td>
<td>lb/hr$^1$</td>
<td>LCPH ATI 6132 / PTO 6268</td>
</tr>
</tbody>
</table>

### Table Co-Gen 19. Sulfur Dioxide (SO$_2$) Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Sulfur Dioxide (SO$_2$)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-502</td>
<td>EU-502A EU-502AN EU-502B EU-502BN</td>
<td>248.2 lb/hr$^2$, 90% reduction$^2,5$</td>
<td>LCPH ATI 6232 / PTO 6268</td>
</tr>
</tbody>
</table>

**For coal supplies (or coal blends) which have an equivalent inlet SO$_2$ rate$^3$ greater than 2.0 lb/MMBtu:**

| SEP-502     | EU-502A EU-502AN | 0.45 lb/MMBtu, 30-day rolling average$^2,6$ 90% reduction of equivalent inlet SO$_2$ emission rate$^2,5,6$, 30-day average | DNR PSD Permit #90-A-083P1 |

**For coal supplies (or coal blends) which have an equivalent inlet SO$_2$ rate$^3$ less than or equal to 2.0 lb/MMBtu:**

| SEP-502     | EU-502A EU-502AN | 0.20 lb/MMBtu, 30-day rolling average$^2,7$ | DNR PSD Permit #90-A-083P1 |

**Other standards:**

| SEP-502     | EU-502A EU-502AN | 0.94 lb/MMBtu, 3-hour rolling average$^8$ | DNR PSD Permit #90-A-083P1 |
| SEP-502     | EU-502B EU-502BN | 0.94 lb/MMBtu, 3-hour average$^9$ | DNR PSD Permit #93-A-324-S1 |
### Table Co-Gen 20. Nitrogen Oxides and Carbon Monoxide Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>NOₓ</th>
<th>CO</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-502</td>
<td>EU-502A, EU-502AN</td>
<td>TBD¹,³,⁴</td>
<td>0.2 lb/MMBtu, 3-hour average⁸</td>
<td>DNR PSD Permit #90-A-083P1</td>
</tr>
<tr>
<td>SEP-502</td>
<td>EU-502B, EU-502BN</td>
<td>0.07 lb/MMBtu, 30-day rolling</td>
<td>0.2 lb/MMBtu, 3-hour average⁸</td>
<td>LCPH ATI 6132 / PTO 6268</td>
</tr>
<tr>
<td>SEP-502</td>
<td>EU-502A, EU-502AN, EU-502B, EU-502BN</td>
<td>0.75 lb/hr¹, 3-hour average⁸</td>
<td>110.3 lb/hr¹</td>
<td>LCPH ATI 6163 / PTO 6268</td>
</tr>
</tbody>
</table>

### Table Co-Gen 21. Other Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Fluorides</th>
<th>Lead</th>
<th>Beryllium</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-502</td>
<td>EU-502A, EU-502AN</td>
<td>0.75 lb/hr¹, 3-hour average⁸</td>
<td>&lt;1.24x10⁻⁴ lb/MMBtu, 0.068 lb/hr¹</td>
<td>&lt;8.28x10⁻⁸ lb/MMBtu, &lt;4.57x10⁻⁵ lb/hr¹</td>
<td>DNR PSD Permit #90-A-083P1</td>
</tr>
<tr>
<td>EP</td>
<td>EU</td>
<td>Fluorides</td>
<td>Lead</td>
<td>Beryllium</td>
<td>Authority for Requirement</td>
</tr>
<tr>
<td>------</td>
<td>---------------------</td>
<td>----------------------------</td>
<td>-----------------------</td>
<td>-----------------------------</td>
<td>---------------------------</td>
</tr>
<tr>
<td>SEP-502</td>
<td>EU-502B, EU-502BN</td>
<td>0.75 lb/hr, 3 tpy, 3-hour average</td>
<td>2.28x10^{-4} lb/MMBtu</td>
<td>1.53x10^{-7} lb/MMBtu</td>
<td>Iowa PSD Permit #93-A-324-S1</td>
</tr>
<tr>
<td>SEP-502</td>
<td>EU-502A, EU-502AN, EU-502B, EU-502BN</td>
<td>0.75 lb/hr(^1) 0.07 lb/hr(^1) 8.4x10^{-5} lb/hr(^1)</td>
<td></td>
<td>LCPH ATI 6163 / PTO 6268</td>
<td></td>
</tr>
</tbody>
</table>

**Table Co-Gen 22. Volatile Organic Compound (VOC) Emission Limits.**

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>VOC</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-502</td>
<td>EU-502A, EU-502AN, EU-502B, EU-502BN</td>
<td>1.45 lb/hr(^1)</td>
<td>LCPH ATI 6232 / PTO 6268</td>
</tr>
</tbody>
</table>

\(^1\) Standard is expressed as the average of three (3) runs.

\(^2\) Standard is a 30-day rolling average.

\(^3\) This emission limit is waived for the specific SNCR optimization study activity as detailed in Operating Limits item C not to extend more than 365 days after the SNCR modifications have been completed.

\(^4\) This standard is a 30-day rolling average that includes all periods of operation except for cold startup periods. A cold startup period is defined as that period of time when a coal-fired cogen boiler is proceeding to increase the temperature in the lower combustor from less than 400° F to at least 1,500° F. This period shall last no more than forty-eight (48) hours and NO\(_x\) emissions data from this period shall be excluded when determining compliance with the permitted emission limit. Ammonia injection shall begin as soon as the lower combustor temperature reaches 1,500° F and the cold startup period will end at this time. All data from cold startup periods after the first forty-eight (48) hours, or while ammonia is injected in the boiler, will be included in determining compliance with the optimized limit.

\(^5\) The equivalent inlet SO\(_2\) emission rate means the stack emissions (on a lb/MMBtu heat input basis) that would result from the combustion of “as fired” coal in the boiler without SO\(_2\) absorption, assuming 100% conversion of sulfur in the coal to SO\(_2\).

\(^6\) When SO\(_2\) inlet > 2.0 lb/MMBtu.

\(^7\) When SO\(_2\) inlet < 2.0 lb/MMBtu.

\(^8\) Standard is a 3-hour rolling average.

\(^9\) This limit is effective on and after the date the 30-day SO\(_2\) compliance demonstration is completed.

**Operational Limits & Requirements**

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

**Control Device:**

A baghouse shall be installed to control particulate matter emissions from Boiler #3 and Boiler #4. A Selective Non-Catalytic Reduction (SNCR) system shall be installed to control NO\(_x\)
emissions on Boiler #3 and Boiler #4. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors, and gauges needed to measure the parameters outlined in “Operating Condition Monitoring and Recordkeeping” shall be installed, maintained, and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 6132 / PTO 6268

Operating Limits:

Operating limits for this emission source are:

A. The fuel combusted shall be limited to gas (for startup), oil (for startup), and coal.

B. The owner or operator must receive an approval from the IDNR central office before a fuel other than specified above is combusted in the boilers. The IDNR shall reevaluate the fuel and may impose best available control technology (BACT) emission standards (including a percent reduction requirement) for the fuel type (or combination) in question. Other PSD-related procedures (e.g., dispersion modeling studies) may also be required.

C. The owner/operator shall conduct a study on the boiler to determine the optimized performance of the SNCR system within one year after the startup date. The Department shall review the optimization study and revise the NOx emission limit as the Department determines is appropriate so as to reflect optimized performance of the SNCR system as indicated by the SNCR percent NOx reduction for the various operating conditions tested. The Department will include a margin of up to twenty percent (20%) to provide for excess emissions over an averaging period adequate to reflect the variability of the operating parameters the Department determines have the dominant impact on emission rates. Prior to initiating the study, ADM shall submit a detailed study plan for the IDNR approval, including the specific dates of the optimization study and the boiler operation conditions to be tested. The optimization shall monitor and record, but not limited to, the following items:

1) reagent injection rates,
2) boiler NOx prior to injection,
3) reagent injection to boiler NOx ratios,
4) boiler temperature,
5) CO, SO2, and chlorine levels prior to injection,
6) boiler load in MMBtu/hr and percent of rated capacity,
7) steam generation rate,
8) bed calcium to sulfur ratios,
9) fuel type, percent ash and percent sulfur,
10) NOx emission rate,
11) SNCR NOx emission reduction in percent,
12) ammonia emission rates, and
13) opacity.

This information shall be collected or calculated hourly during the study unless otherwise specified in the detailed study plan to be submitted by ADM as approved by the IDNR. In addition, at least three separate visible emission tests shall be conducted for each set of operation/injection conditions identified for the study.
D. Within one year after beginning operation, the optimization study data and report shall be submitted to the IDNR.

E. ADM shall also submit a summary of study activities with the Quarterly CEM reports covering the same time period as the CEM report.

F. The owner shall furnish the IDNR written reports as follows:

1) Initial Compliance Demonstration Reports required in Condition 13 [of PSD permit #93-A-083P1].
2) CEMS performance evaluation.
3) The maximum heat input capacity data from the demonstration of the boiler’s maximum heat input capacity.
4) The owner shall submit a written emissions report to the IDNR central office each calendar quarter. Reports shall be submitted to the IDNR postmarked no later than 30 days after the end of the calendar quarter starting with the quarter in which initial startup of the boiler occurs. The report shall include the following:
   a. Calendar dates covered by the report,
   b. Dates and hours of startup, shutdown or malfunction,
   c. Type, quality and quantity of fuel combusted,
   d. Each hourly SO₂ and NOₓ emissions, a summary of excess opacity emissions and diluent gas emission rate as well as each operating day’s 30-day average SO₂ and NOₓ. Emission rate and percent SO₂ reduction determined during the reporting period,
   e. Each instance of excess emissions and of non-standard or manual data collection and how those data were collected. Where data was excluded, exceeded full span of the CEMS or was not available for any other reason, together with reasons for each of these instances of noncompliance and a description of the corrective actions taken, and any statistics required pursuant to 40 CFR §60.49b(m),
   f. “F” factor, method of determination and fuel description,
   g. Description of any modification to the CEMS and its potential effect on CEMS performance,
   h. Results of daily CEMS drift test and quarterly accuracy assessments and related data as required under 40 CFR Part 60 Appendix F,
   i. Coal sampling and analysis results,
   j. Lead (Pb) quarterly test results.

G. The owner or operator shall record the amounts of each fuel combusted during each day and calculate a new annual capacity factor for each fuel type at the end of each calendar month as specified in 40 CFR §60.49b(d).

H. The owner or operator shall record the amounts of each fuel combusted during each day and calculate the annual capacity factor individually according to 40 CFR §60.49b (d).

I. The owner or operator shall record the net actual electrical output to any utility power distribution system for sale annually, calculated as an average over any three (3) calendar year period.

J. The owner or operator shall furnish the IDNR with final detailed plans and specifications for all emission control equipment selected by the owner to meet the emission limits
contained in Condition 10. This information shall be submitted to the IDNR at least 30 days in advance of construction of any control equipment.

Authority for Requirement:  DNR PSD Permit #90-A-083P1

For CFBC Boilers #1, 2, 3 and 4, the owner shall maintain a record of periods of startup, shutdown or malfunction. Operating hours shall be averaged on a 12-month basis rolled over monthly.

Authority for Requirement:  DNR PSD Permit #93-A-324-S1

**Operating Condition Monitoring:**

A. 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. These records shall show the following:

B. The owner or operator shall maintain a record of periods of startup, shutdown, or malfunction. Operating hours shall be averaged on a 12-month basis rolled over monthly.

C. The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month as specified in 40 CFR §60.49b(d).

D. The owner or operator shall maintain records of the net actual electrical output to any utility power distribution system for sale annually, calculated as an average over any three (3) calendar year period.

Authority for Requirement:  DNR PSD Permit #90-A-083P1

**Continuous Emission Monitoring:**

The owner or operator shall continuously demonstrate compliance with the SO₂ and NOₓ emission limitations and SO₂ percent reduction requirements of this permit, in part, through the use of continuous emission monitoring systems (CEMS). The owner shall install, calibrate, operate, maintain, audit, and record the output from CEMSs capable of measuring SO₂, NOₓ, and the appropriate diluent gas (oxygen or carbon dioxide). The CEMS shall be installed, calibrated, operated, maintained and audited, and data recorded in accordance with the provisions found at 40 CFR §60.13 (Monitoring Requirements); 40 CFR Part 60, Appendix B, Performance Specifications 2 and 3 (Specification and Test Procedures for SO₂, NOₓ, and diluent CEMS), and 40 CFR Part 60, Appendix F (Quality Assurance Requirements for Gas CEMS Used for Compliance Determinations).

The CEMS shall be operated and data recorded during any period any fuel is combusted in the boilers. Hourly parts-per-million data recorded by the pollutant CEMS shall be converted to lb-pollutant per million Btus (lb/MMBtus) heat input using the equations and methodology specified in 40 CFR Part 60, Appendix A, Method 19 (as it appears in the July 1, 1992, Code of Federal Regulations). Hourly emission rate data shall be recorded and used by the owner or operator to calculate compliance with the applicable emission rates and percent reductions for the specified averaging times.
The owner or operator shall also install, operate, and maintain a fuel sampling and analysis (FSA) system to collect “as-fired” fuel data. The FSA system shall meet or exceed the design and performance specifications set forth in 40 CFR Part 60, Appendix A, Method 19 (incorporating by reference of ASTM Method D2234-76, et al.). As specified by Method 19, at least a minimum number of sample increments shall be collected at a location immediately preceding each day bunker, composited, and analyzed daily. Coal analyses shall be conducted for weight percent sulfur (%S) and gross heat value (GHV, expressed in Btus/lb-coal).

The owner may develop an in-house coal analysis program or may send collected samples to a laboratory for analysis. In either case, the analytical results shall be available to the proposed boiler operator within 72 hours of the sample collection time.

The “as-fired” fuel data shall be used in conjunction with the SO₂ CEMS emission rate data to determine compliance with the SO₂ 30-day rolling percent reduction limit.

The owner shall calculate an equivalent SO₂ rate for each bunker using the weight percent sulfur and the gross heating value obtained through daily FSA, using the following equation:

\[
\text{Equivalent SO}_2 \text{ Inlet Rate of Individual Bunker} = \frac{\%S}{\text{GHV}} \times K
\]

Where \(K=20,000 \text{ (lb*BTU)/(%*MMBTU)}\)

If the equivalent inlet SO₂ rates for coal contained in each day bunker which feeds to a single boiler differ by 0.2 lbs-SO₂/MMBtu heat input or less, the arithmetic average of the two equivalent SO₂ inlet rates shall be used as the “equivalent hourly average SO₂ inlet rate” for each hourly percent reduction calculation during the boiler operating day.

Otherwise, the owner shall: (1) use the smaller of the two equivalent SO₂ inlet rates as the “equivalent hourly average SO₂ inlet rate” for each hourly percent reduction calculation during the boiler operating day; or (2) calculate an “equivalent hourly average SO₂ inlet rate” for each hour of operation using the following heat input weighted equation.

\[
\text{Equivalent Hourly Average SO}_2 \text{ Inlet Rate} = \frac{(W_1 \times \%S_1) + (W_2 \times \%S_2)}{(W_1 \times \text{GHV}_1) + (W_2 \times \text{GHV}_2)} \times K
\]

\(W_1=\) Tons of coal fed to first of paired day bunkers during hour
\(W_2=\) Tons of coal fed to second of paired day bunkers during hour
\(\%S_1=\) Weight percent sulfur of coal contained in first bunker
\(\%S_2=\) Weight percent sulfur of coal contained in second bunker
\(\text{GHV}_1=\) Gross heating value of coal contained in first bunker
\(\text{GHV}_2=\) Gross heating value of coal contained in second bunker
\(K=20,000 \text{ (lb*BTU)/(%*MMBTU)}\)

The existing continuous monitoring system for measuring the opacity of emissions discharged into the atmosphere shall be operated, and maintained during all periods of operation of the boiler except for continuous monitoring system breakdowns and repairs. Operation shall be in conformance with 40 CFR 60.48b which includes recording the output of the system. Reporting and recordkeeping requirements shall be in conformance with 40 CFR 60.49b which shall include filing a quarterly report of excess emissions as outlined therein.

Authority for Requirement:  DNR PSD Permit #90-A-083P1
**Continuous Emission Monitoring and Fuel Sampling Analysis:**
For CFBC Boiler #4 and for SO$_2$ emissions from CFBC Boilers #1, 2, 3:

**A. SO$_2$ and NO$_x$.**

The owner shall continuously demonstrate compliance with the SO$_2$ and NO$_x$ emission limitations and SO$_2$ percent reduction requirements of this permit through the use of a continuous emission monitoring system (CEMS) and a fuel sampling and analysis (FSA) system. These systems shall be installed, operating and calibrated prior to beginning the initial compliance demonstration set forth in ["Compliance Demonstrations"] according to 40 CFR §60.13.

In the case where a CEMS is to be used as the test method for demonstrating compliance, the performance certification report shall be submitted to IDNR prior to initiating the facility compliance testing.

Compliance with the SO$_2$ and NO$_x$ emission rate limitations and the SO$_2$ percent reduction requirements shall be calculated as the average of all valid hourly emission rate data and valid hourly SO$_2$ percent reduction data for the 30 previous boiler operating days during which each standard applies. The owner shall calculate a new 30-day average at the end of each boiler operating day.

Unless otherwise approved by the Department, the selection of the CEMS span value (maximum data display output) for each parameter shall be those specified in Subpart Db of the Code of Federal Regulations.

In addition to the provisions of 40 CFR Part 60, Appendix B, the performance specifications applicable to the CEMS required by the permit shall include a data recovery requirement of 90% and shall meet precision and accuracy requirements of 10 percent and 10 percent of the applicable standard respective, unless otherwise specified in the permit. When the minimum data requirements of the permit cannot be obtained, the methods and procedures of 40 CFR §60.47b(c) and §60.48b(F) shall be employed by the owner to obtain the required data.

**1. 30-Day Rolling NO$_x$ and SO$_2$ Emission Rate Compliance**

The owner shall install, calibrate, operate, maintain, audit, and record the output from CEMS capable of measuring SO$_2$, NO$_x$, and the appropriate diluent gas (oxygen or carbon dioxide). The CEMS shall be installed, calibrated, operated, maintained, and audited. Data shall be recorded in accordance with the provisions found at 40 CFR §60.13 [Monitoring Requirements]; 40 CFR Part 60, Appendix B, Performance Specifications 2 and 3 [Specification and Test Procedures for SO$_2$, NO$_x$, and diluent CEMS]; and 40 CFR Part 60, Appendix F [Quality Assurance Requirements for Gas CEMS Used for Compliance Determinations], as adopted by the Department by reference.

The CEMS shall be operated and data recorded during any period any fuel is combusted in the boiler. Hourly parts-per-million data recorded by the pollutant CEMS shall be converted to pound of pollutant per million Btu (lb/MMBtu) heat input using the equations and methodology specified in 40 CFR Part 60, Appendix A, Method 19 (as it appears in the July 1, 1992, Code of Federal Regulations). Hourly emission rate data shall be recorded and used by the owner/operator to calculate compliance with the applicable emission rates and percent reductions for the specified averaging times.
The owner shall successfully complete SO₂ and NOₓ CEMS performance evaluations including relative accuracy and calibration drift assessment evaluations prior to beginning the initial compliance demonstration.

The owner shall notify the DNR central office at least 30 days in advance of conducting any relative accuracy test.

2. SO₂ Percent Reduction Compliance

The owner shall install, calibrate, operate, and maintain a fuel sampling and analysis (FSA) system to collect "as-fired" fuel data. The FSA system shall meet or exceed the design and performance specifications set forth in 40 C.F.R. Part 60, Appendix A, Method 19 (incorporating by reference of ASTM Method D2234-76, et al.).

Analyses shall be performed for weight percent sulfur (%S) and gross heat value (GHV, expressed in Btu/lb-coal). The owner may develop an in-house coal analysis program or may send collected samples to a laboratory for analysis. In either case, the analytical results shall be available to the proposed boiler operator within 72 hours of the sample collection time.

The "as-fired" fuel data shall be used to determine the equivalent hourly average SO₂ inlet rate to the boiler, and shall be used in conjunction with the SO₂ CEMS emission rate data to determine compliance with the SO₂ 30-day rolling percent reduction limit.

The owner shall calculate an equivalent SO₂ rate for each bunker using the weight percent sulfur and the gross heating value obtained through daily FSA, using the following equation:

\[
\text{Equivalent SO}_2 \text{ Inlet Rate of Individual Bunker} = \frac{\%S}{GHV} \times K
\]

Where K = 20,000 (lb*BTU)/(%/MMBTU)

If the equivalent inlet SO₂ rates for coal contained in each day bunker which feeds to a single boiler differ by 0.2 lbs-SO₂/MMBtu heat input or less, the arithmetic average of the two equivalent SO₂ inlet rates shall be used as the "equivalent hourly average SO₂ inlet rate" for each hourly percent reduction calculation during the boiler operation day.

Otherwise, the owner shall: (1) use the smaller of the two equivalent SO₂ inlet rates as the "equivalent hourly average SO₂ inlet rate" for each hourly percent reduction calculation during the boiler operating day; or (2) calculate an "equivalent hourly average SO₂ inlet rate" for each hour of operation using the following heat input weighted equation.

\[
\text{Equivalent Hourly Average SO}_2 \text{ Inlet Rate} = \frac{(W_1 \times \%S_1) + (W_2 \times \%S_2)}{(W_1 \times GHV_1) + (W_2 \times GHV_2)} \times K
\]

\[W_1 = \text{Tons of coal fed to first of paired day bunkers during hour}\]
\[W_2 = \text{Tons of coal fed to second of paired day bunkers during hour}\]
\[\%S_1 = \text{Weight percent sulfur of coal contained in first bunker}\]
\[\%S_2 = \text{Weight percent sulfur of coal contained in second bunker}\]
\[GHV_1 = \text{Gross heating value of coal contained in first bunker}\]
\[GHV_2 = \text{Gross heating value of coal contained in second bunker}\]
\[K = 20,000 \text{ (lb*BTU) / (%*MMBTU)}\]
B. Particulate (PM$_{10}$)

The existing continuous monitoring system for measuring the opacity of emissions discharged into the atmosphere shall be operated, and maintained during all periods of operation of the boiler except for continuous monitoring system breakdowns and repairs. Operation shall be in conformance with 40 CFR §60.48b which includes recording the output of the system. Reporting and recordkeeping requirements shall be in conformance with 40 CFR §60.49b which shall include filing a quarterly report of excess emissions as outlined therein.

C. Lead (Pb) and Beryllium (Be)

Coal samples shall be analyzed for Lead (Pb) and Beryllium (Be) and the results submitted in writing to the IDNR on a quarterly basis. Fuel Sampling shall be conducted as specified in Condition A.2 above. Sample Analysis for Lead (Pb) and Beryllium (Be) shall be performed as specified in SW-846 Method 6010. The test results shall be reported as specified below.

The owner shall submit a written emissions report to the IDNR central office each calendar quarter. Reports shall be submitted to the IDNR postmarked no later than 30 days after the end of the calendar quarter starting with the quarter in which initial startup of the boiler occurs. The report shall include the following:

- Calendar dates covered by the report,
- Dates and hours of startup, shutdown or malfunction,
- Type, quality and quantity of fuel combusted,
- Each hourly SO$_2$, NO$_x$, opacity and diluent gas emission rate as well as each operating day's 30-day average SO$_2$, and NO$_x$. emission rate and percent SO$_2$, reduction determined during the reporting period,
- Each instance of excess emissions, and of non-standard or manual data collection and how those data were collected. Where data was excluded, exceeded full span of the CEMS or was not available for any other reason, together with reasons for each of these instances of noncompliance and a description of the corrective actions taken, and any statistics required pursuant to 40 CFR §60.49b(m),
- "F" factor, method of determination and fuel description,
- Description of any modification to the CEMS and its potential effect on CEMS performance,
- Results of daily CEMS drift test and quarterly accuracy assessments and related data as required under 40 CFR Part 60 Appendix F,
- Coal sampling and analysis results,
- PM$_{10}$, Lead (Pb) and Beryllium (Be) quarterly test results.

All data, records, reports, documentation, and calculations required under this permit shall be available at the plant during normal business hours for inspection and copying by federal, state, or local air pollution regulatory agencies and their authorized representatives for a minimum of five (5) years from the date of recording.

Authority for Requirement: DNR PSD Permit #93-A-324-S1

Compliance Demonstrations:

The owner shall verify initial compliance with the emission limitations contained in Emission Limit Section above and submit a written report of the results within 60 days of achieving maximum production and no later than 180 days after the startup date of the proposed boiler.
Initial compliance demonstrations shall include verification of the flue gas flow rate and exhaust temperature using methods approved by DNR prior to the pretest meeting. The owner shall submit a written report to the DNR central office of each initial compliance demonstration attempt, whether successful or not, postmarked not later than 30 days after the completion of the test period or the termination of the attempt, whichever occurs first.

A. Long Term Emission Limits

1. 30-Day Rolling NOX and SO2 Emission Rate Compliance

The initial performance tests using a Continuous Emission Monitoring System (CEMS) shall be conducted over the first 30 consecutive boiler operating days. The first day of these tests shall be completed within 30 days after achieving maximum production rate but no later than 180 days after initial startup of the facility.

For the initial 30-day rolling average compliance test, NOX and SO2, from the boiler shall be monitored for 30 consecutive boiler operating days. The 30-day average emission limit shall be calculated as the average of all valid hourly emission rate data recorded by the CEMS during the 30-day test period.

2. SO2 Percent Reduction Compliance

The initial performance tests using a Continuous Emission Monitoring System (CEMS) and a Fuel Sampling and Analysis (FSA) system shall be conducted over the first 30 successive boiler operating days. The first day of tests shall be completed within 30 days after achieving maximum production rate but no later than 180 days after initial startup of the facility. Performance tests using CEMS cannot be conducted until each CEMS is certified and accepted by the IDNR for such purposes.

The owner shall use all valid hourly stack emissions data recorded by the CEMS in conjunction with the corresponding equivalent inlet SO2 rate to calculate each hourly percent SO2 reduction achieved by the boiler. The 30-day average percent SO2 reduction shall be calculated as the average of all valid hourly percent reduction values collected during 30 consecutive boiler operating days during which the 90 percent reduction requirement applies.

A boiler operating day means any 24-hour period beginning at 7:00 a.m. and continuing to 7:00 a.m. the following day, during which any amount of coal is combusted in the boiler.

It is not necessary for coal to be combusted continuously for the entire 24-hour period to qualify as a boiler operating day. Valid data includes any data collected during any period of coal combustion and at all operating times.

B. Short Term Emission limits

The boiler shall be performance tested for compliance with the sulfur dioxide (SO2), particulate (PM10), carbon monoxide (CO), and fluoride (F), Lead (Pb) and Beryllium (Be) 3 hour emission standards.

The tests shall be conducted and a written report of the results shall be submitted to the DNR central office within sixty (60) days after achieving the maximum production rate at which the boiler will be operated, but no later than 180 days after initial startup of the boiler. Additional reports may be requested by the DNR central office, unless the owner and DNR agree to a demonstration through other means that the applicable standard is being met.
The owner shall verify initial compliance with the emission limitations contained in Emission Limit Section and submit a written report of the results within 60 days of achieving maximum production and no later than 180 days after the startup date of the proposed boiler. Initial compliance demonstrations shall include verification of the flue gas flow rate and exhaust temperature using methods approved by IDNR prior to the pretest meeting.

The owner shall submit a written report to the DNR central office of each initial compliance demonstration attempt, whether successful or not, postmarked not later than 30 days after the completion of the test period or the termination of the attempt, whichever occurs first.

A. Long Term Emission Limits

1. 30-Day Rolling NOx and SO2 Emission Rate Compliance

The initial performance tests using a Continuous Emission Monitoring System (CEMS) shall be conducted over the first 30 consecutive boiler operating days. The first day of these tests shall be completed within 30 days after achieving maximum production rate but no later than 180 days after initial startup of the facility.

For the initial 30-day rolling average compliance test, NOx. and SO2, from the boiler shall be monitored for 30 consecutive boiler operating days. The 30-day average emission limit shall be calculated as the average of all valid hourly emission rate data recorded by the CEMS during the 30-day test period.

2. SO2 Percent Reduction Compliance

The initial performance tests using a Continuous Emission Monitoring System (CEMS) and a Fuel Sampling and Analysis (FSA) system shall be conducted over the first 30 successive boiler operating days. The first day of tests shall be completed within 30 days after achieving maximum production rate but no later than 180 days after initial startup of the facility. Performance tests using CEMS cannot be conducted until each CEMS is certified and accepted by the DNR for such purposes.

The owner shall use all valid hourly stack emissions data recorded by the CEMS in conjunction with the corresponding equivalent inlet SO2 rate to calculate each hourly percent SO2 reduction achieved by the boiler. The 30-day average percent SO2 reduction shall be calculated as the average of all valid hourly percent reduction values collected during 30 consecutive boiler operating days during which the 90 percent reduction requirement applies.

A boiler operating day means any 24-hour period beginning at 7:00 a.m. and continuing to 7:00 a.m. the following day, during which any amount of coal is combusted in the boiler. It is not necessary for coal to be combusted continuously for the entire 24-hour period to qualify as a boiler operating day. Valid data includes any data collected during any period of coal combustion and at all operating times.

B. Short Term Emission Limits

The boiler shall be performance tested for compliance with the sulfur dioxide (SO2), particulate (PM10), carbon monoxide (CO), and fluoride (F), Lead (Pb) and Beryllium (Be) 3 hour emission standards.

The tests shall be conducted and a written report of the results shall be submitted to the DNR central office within sixty (60) days after achieving the maximum production rate at which the boiler will be operated, but no later than 180 days after initial startup of the boiler. Additional
reports may be requested by the DNR central office, unless the owner and DNR agree to a demonstration through other means that the applicable standard is being met.

The CO compliance tests shall be conducted under the same operating and combustion conditions as the NOx CEMS certification tests. Compliance with the NOx/BACT emission limit shall take preference if difficulties are encountered in achieving simultaneous compliance with these BACT emission limits. If such difficulties are encountered, the owner may subsequently request a revision of the CO/BACT emission limit.

The following shall apply to all compliance demonstrations:

- Each compliance test conducted shall be approved by the IDNR central office.
- Each compliance test shall consist of three (3) separate runs. The duration shall be established by the DNR central office representative at the pretest meeting. The arithmetic mean of the results of the three runs shall apply for compliance.
- The compliance test method for PM, shall be Reference Method 5 per 40 CFR §60.46b; for CO shall be the integrated sample of Method 10 of 40 CFR Part 60, Appendix A; for Lead (Pb) shall be reference method 12 of 40 CFR Part 60; and for Beryllium (Be) shall be Reference Method 104 of 40 CFR Part 61, Appendix B. The DNR central office will set forth the test methods and test procedures for fluorides.
- Opacity measurements shall be conducted per Reference Method 9, 40 CFR Part 60, Appendix A during the initial compliance tests for PM10. Alternatively, the opacity monitor may be used for the initial compliance demonstration according to the procedures in 40 CFR §60.11(e)(5).

C. Pretest Meeting

A pretest meeting shall be held at a mutually agreeable site no later than thirty (30) days prior to the date of each compliance test or the date of each CEMS performance evaluation, whichever occurs first if performed at different times. Each meeting shall be attended by representatives of the DNR central office, the owner and the compliance testing firm, if used. Representatives of the Linn County Health Department shall be invited to attend each pretest meeting and each compliance demonstration.

It shall be the responsibility of the owner to coordinate and schedule each meeting, and to formally notify all participants of each pretest meeting date, compliance test date, and CEMS performance evaluation date.

Upon being notified, the DNR will send to the owner a "proposed test plan" questionnaire. The questionnaire shall be completed by the owner and submitted to the DNR as directed. The completed questionnaire must be received by the DNR no later than fifteen (15) working days prior to the pretest meeting date.

D. Additional Notices

The Department reserves the right to impose additional, different, or more detailed testing requirements as the need arises. It is the responsibility of the owner to locate the test ports to be used during compliance testing.

Authority for Requirement: DNR PSD Permit #93-A-324-S1
Fuel Requirements:
Fuel shall be limited to number 1 or number 2 fuel oil with a sulfur content not to exceed 0.5 percent, by weight.
Authority for Requirement: LCO 10.12(1)"c"
567 IAC 23.3(3)"b"(1)

Reporting Requirements:
Copies of all reporting required in PSD Permit 93-A-324-S1 shall be submitted to LCPH.
Authority for Requirement: LCPH ATI 3221 / PTO 3134

Records Retention:
Any data, records, reports, documentation, and calculations required to be kept under this permit shall be available at the plant during normal business hours in a form suitable for inspection and copying by federal, state, or local air pollution regulatory agencies, and their authorized representatives for at least five (5) years from the date of their establishment.
Authority for Requirement: 567 IAC 22.108(4)

NSPS General Requirements:
These boilers are subject to 40 CFR 60 NSPS Subpart Db, Standards of Performance for Industrial, Commercial, Institutional Steam Generating Units.

The permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. 40 CFR §60.7(b)

The permittee shall submit an excess emissions and monitoring systems performance report to the Department and Administrator in accordance with 40 CFR §60.7(c). The summary report form shall contain the information and format required in 40 CFR §60.7(d).

Notwithstanding the frequency of reporting requirements in the prior permit conditions, the permittee may reduce the frequency of reporting of excess emissions and monitoring system performance reports pursuant to 40 CFR §60.7(e).

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR §60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment, or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Authority for Requirement: 567 IAC 23.1(2)
Existing Large Solid Fuel Subcategory:
These emission units are subject to Subpart A - General Provisions (40 CFR §63.1 through 40 CFR §63.15) of the National Emission Standards for Hazardous Air Pollutants (NESHAP) and Subpart DDDDD - NESHAP for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (40 CFR §63.7480 through 40 CFR §63.7575).
Authority for requirement: NESHAP Subpart A; NESHAP Subpart DDDDD

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

Stack Height, (ft, from the ground): 350
Discharge Style: Vertical, unobstructed
Stack Opening, (inches, diameter): 138
Exhaust Temperature (°F): 320°F
Exhaust Flow Rate (acfm): 400,900 (combined Boilers #3 and #4)
UTM Location: 4,642,020.0 meters Northerly and 608,775.0 meters Easterly
Authority for Requirement: DNR PSD Permit #93-A-324-S1

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that 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:
Stack testing is not required at this time.

Continuous Emissions Monitoring:

<p>| Pollutant: Continuous Emissions Monitor ID: Operational Specifications: Date of Most Recent System Calibration &amp; Quality Assurance: Ongoing System Calibration/Quality Assurance: Reporting &amp; Recordkeeping: Authority for Requirement: |
|--------------------------------------------------|--------------------------------------------------|----------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|</p>
<table>
<thead>
<tr>
<th>Pollutant:</th>
<th>Nitrogen Oxides (NOₓ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous Emissions Monitor ID:</td>
<td>ME-502B for Boiler #4</td>
</tr>
<tr>
<td>Operational Specifications:</td>
<td>40 CFR Part 60</td>
</tr>
<tr>
<td>Date of Most Recent System Calibration &amp; Quality Assurance:</td>
<td>May 5, 2016</td>
</tr>
<tr>
<td>Ongoing System Calibration/Quality Assurance:</td>
<td>40 CFR Part 60, Appendix F</td>
</tr>
<tr>
<td>Reporting &amp; Recordkeeping:</td>
<td>40 CFR Part 60, Appendix A and B</td>
</tr>
<tr>
<td>Authority for Requirement:</td>
<td>DNR PSD Permit #93-A-324-S1 40 CFR Part 60 Subpart Db 567 IAC 23.1(2)&quot;ccc&quot; LCO 10.9(2)&quot;a&quot;(55)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pollutant:</th>
<th>Opacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous Emissions Monitor ID:</td>
<td>ME-502C for Boilers #3 and #4</td>
</tr>
<tr>
<td>Operational Specifications:</td>
<td>40 CFR §60.13 and 40 CFR §60.45</td>
</tr>
<tr>
<td>Date of Most Recent System Calibration &amp; Quality Assurance:</td>
<td>March 2, 2016</td>
</tr>
<tr>
<td>Ongoing System Calibration/Quality Assurance:</td>
<td>40 CFR Part 60</td>
</tr>
<tr>
<td>Reporting &amp; Recordkeeping:</td>
<td>40 CFR Part 60</td>
</tr>
<tr>
<td>Authority for Requirement:</td>
<td>DNR PSD Permit #93-A-324-S1 40 CFR Part 60 Subpart Db 567 IAC 23.1(2)&quot;ccc&quot; LCO 10.9(2)&quot;a&quot;(55)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pollutant:</th>
<th>Sulfur Dioxide (SO₂)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous Emissions Monitor ID:</td>
<td>ME-502F for Boiler #3</td>
</tr>
<tr>
<td>Operational Specifications:</td>
<td>40 CFR Part 60 Subpart Db</td>
</tr>
<tr>
<td>Date of Most Recent System Calibration &amp; Quality Assurance:</td>
<td>May 5, 2016</td>
</tr>
<tr>
<td>Ongoing System Calibration/Quality Assurance:</td>
<td>40 CFR Part 60, Appendix F</td>
</tr>
<tr>
<td>Reporting &amp; Recordkeeping:</td>
<td>40 CFR Part 60, Appendix A and B</td>
</tr>
<tr>
<td>Authority for Requirement:</td>
<td>DNR PSD Permit #90-A-083P1 40 CFR 60 Subpart Db 567 IAC 23.1(2)&quot;ccc&quot; LCO 10.9(2)&quot;a&quot;(55)</td>
</tr>
<tr>
<td>Pollutant:</td>
<td>Sulfur Dioxide (SO$_2$)</td>
</tr>
<tr>
<td>--------------------</td>
<td>---------------------------------------------</td>
</tr>
<tr>
<td>Continuous Emissions Monitor ID:</td>
<td>ME-502G for Boiler #4</td>
</tr>
<tr>
<td>Operational Specifications:</td>
<td>40 CFR Part 60 Subpart Db</td>
</tr>
<tr>
<td>Date of Most Recent System Calibration &amp; Quality Assurance:</td>
<td>May 5, 2016</td>
</tr>
<tr>
<td>Ongoing System Calibration/Quality Assurance:</td>
<td>40 CFR Part 60, Appendix F</td>
</tr>
<tr>
<td>Reporting &amp; Recordkeeping:</td>
<td>40 CFR Part 60, Appendix A and B</td>
</tr>
<tr>
<td>Authority for Requirement:</td>
<td>DNR PSD Permit #93-A-324-S1</td>
</tr>
<tr>
<td></td>
<td>40 CFR Part 60 Subpart Db</td>
</tr>
<tr>
<td></td>
<td>567 IAC 23.1(2)&quot;ccc&quot;</td>
</tr>
<tr>
<td></td>
<td>LCO 10.9(2)&quot;a&quot;(55)</td>
</tr>
</tbody>
</table>

**Other Parameters:**

<table>
<thead>
<tr>
<th>Pollutant:</th>
<th>Diluent Gas (Oxygen)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous Emissions Monitor ID:</td>
<td>ME-502D for Boiler #3</td>
</tr>
<tr>
<td>Operational Specifications:</td>
<td>40 CFR Part 60</td>
</tr>
<tr>
<td>Date of Most Recent System Calibration &amp; Quality Assurance:</td>
<td>May 5, 2016</td>
</tr>
<tr>
<td>Ongoing System Calibration/Quality Assurance:</td>
<td>40 CFR Part 60, Appendix F</td>
</tr>
<tr>
<td>Reporting &amp; Recordkeeping:</td>
<td>40 CFR Part 60, Appendix A and B</td>
</tr>
<tr>
<td>Authority for Requirement:</td>
<td>DNR PSD Permit #93-A-324-S1</td>
</tr>
<tr>
<td></td>
<td>DNR PSD Permit #90-A-083-P1</td>
</tr>
<tr>
<td></td>
<td>40 CFR Part 60 Subpart Db</td>
</tr>
<tr>
<td></td>
<td>567 IAC 23.1(2)&quot;ccc&quot;</td>
</tr>
<tr>
<td></td>
<td>LCO 10.9(2)&quot;a&quot;(55)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pollutant:</th>
<th>Diluent Gas (Oxygen)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous Emissions Monitor ID:</td>
<td>ME-502E for Boiler #4</td>
</tr>
<tr>
<td>Operational Specifications:</td>
<td>40 CFR Part 60</td>
</tr>
<tr>
<td>Date of Most Recent System Calibration &amp; Quality Assurance:</td>
<td>May 5, 2016</td>
</tr>
<tr>
<td>Ongoing System Calibration/Quality Assurance:</td>
<td>40 CFR Part 60, Appendix F</td>
</tr>
<tr>
<td>Reporting &amp; Recordkeeping:</td>
<td>40 CFR Part 60, Appendix A and B</td>
</tr>
<tr>
<td>Authority for Requirement:</td>
<td>DNR PSD Permit #93-A-324-S1</td>
</tr>
<tr>
<td></td>
<td>40 CFR Part 60 Subpart Db</td>
</tr>
<tr>
<td></td>
<td>567 IAC 23.1(2)&quot;ccc&quot;</td>
</tr>
<tr>
<td></td>
<td>LCO 10.9(2)&quot;a&quot;(55)</td>
</tr>
</tbody>
</table>
### Pollutant: Flow

<table>
<thead>
<tr>
<th>Continuous Emissions Monitor ID:</th>
<th>ME-502H for Boiler #4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operational Specifications:</td>
<td>40 CFR Part 60</td>
</tr>
<tr>
<td>Date of Most Recent System Calibration &amp; Quality Assurance:</td>
<td>February 23, 2016</td>
</tr>
<tr>
<td>Ongoing System Calibration/Quality Assurance:</td>
<td>40 CFR Part 60, Appendix F</td>
</tr>
<tr>
<td>Reporting &amp; Recordkeeping:</td>
<td>40 CFR Part 60, Appendix B</td>
</tr>
<tr>
<td>Authority for Requirement:</td>
<td>DNR PSD Permit #93-A-324-S1</td>
</tr>
</tbody>
</table>

#### Diluent Gas (Carbon Monoxide)

<table>
<thead>
<tr>
<th>Continuous Emissions Monitor ID:</th>
<th>ME-502I for Boiler #4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operational Specifications:</td>
<td>40 CFR Part 60</td>
</tr>
<tr>
<td>Date of Most Recent System Calibration &amp; Quality Assurance:</td>
<td>February 23, 2016</td>
</tr>
<tr>
<td>Ongoing System Calibration/Quality Assurance:</td>
<td>40 CFR Part 60, Appendix F</td>
</tr>
<tr>
<td>Reporting &amp; Recordkeeping:</td>
<td>40 CFR Part 60, Appendix B</td>
</tr>
<tr>
<td>Authority for Requirement:</td>
<td>DNR PSD Permit #93-A-324-S1</td>
</tr>
</tbody>
</table>

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 ☒

1 Compliance Assurance Monitoring is required for PM$_{10}$ and an agency approved operation and maintenance plan is required for PM; however, because both PM and PM$_{10}$ are controlled by the same equipment, and CAM is more stringent, the agency approved operation and maintenance plan requirement has been waived.

**Authority for Requirement:**  567 IAC 22.108(3)

Refer to Appendix B, CAM Plans, for the complete compliance assurance monitoring plan.

The SO$_2$ and NO$_x$ potentials to emit trigger Agency-approved operation & maintenance plans; however, existing CEMS at this emission point meet or exceed the Agency-approved operation & maintenance plan requirements for these pollutants.
Emission Point ID Number: SEP-503  
Process Area: COGENERATION

Table Co-Gen 23. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
<th>CE ID</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-503</td>
<td>EU-503</td>
<td>Bunker Dust Collector</td>
<td>Coal</td>
<td>600 ton/hr</td>
<td>CE-503</td>
<td>Baghouse</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 Co-Gen 24. Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Opacity</th>
<th>Particulate Matter</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-503</td>
<td>EU-503</td>
<td>0%</td>
<td>0.01 gr/dscf</td>
<td>DNR Permit #86-A-093</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&lt;5% at pick-up points</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Table Co-Gen 25. General Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Pollutant</th>
<th>Emission Limit(s)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-503</td>
<td>EU-503</td>
<td>Opacity</td>
<td>20%</td>
<td>40 CFR §60.252(c) Subpart Y 567 IAC 23.1(2)&quot;v&quot; LCO 10.9(2)&quot;a&quot;(22) LCO 10.7</td>
</tr>
<tr>
<td>PM</td>
<td>0.1 gr/dscf</td>
<td>2.41 lb/hr</td>
<td>567 IAC 23.3(2)&quot;a&quot;(2) LCO 10.9(1)&quot;a&quot; LCPH ATI 6163 / PTO 6235</td>
<td></td>
</tr>
<tr>
<td>PM_{10}</td>
<td>2.41 lb/hr</td>
<td>LCPH ATI 6163 / PTO 6235</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Operational Limits & Requirements

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

NSPS Requirements:

These units are subject to 40 CFR Part 60 NSPS Subpart Y, Standards of Performance for Coal Preparation Plants.

The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. 40 CFR §60.11(c).

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is
not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR §60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment, or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR §60.12

Authority for Requirement: 567 IAC 23.1(2)

**Operating Limits:**

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

A. The baseline actual emissions for the project are equal to 3.39 tons per year for PM₁₀. The baseline actual emissions shall remain unchanged throughout the ten (10) year period following resumption of regular operations after Project 1722 is completed.

B. The owner or operator shall determine the actual emissions for Project 1722 by summing the emissions from the following emission points each month: EP-503, EP-514, and EP-515.

C. Actual PM₁₀ emissions minus the baseline actual PM₁₀ emissions from Project 1722 shall not exceed the PSD significant level of 14.4 tons per calendar year. If this limit is exceeded during the ten (10) year review period, the owner or operator shall submit a report pursuant to 567 IAC 33.3(18)"f"(7).

D. The owner or operator of this equipment shall comply with the operational limits and requirements listed in IDNR Permit 86-A-093.

E. This facility shall meet all applicable requirements of NSPS Subpart A (40 CFR §60.1 through 40 CFR §60.19) to comply with LCO 10.9(2).

F. This facility shall meet the applicable standards for coal processing and conveying equipment, coal storage systems, transfer and loading systems, and open storage piles, per NSPS Subpart Y (40 CFR §60.250 through 40 CFR §60.258) to comply with LCO 10.9(2)"a"(22).

G. This facility shall meet the test methods and procedures of NSPS Subpart Y (40 CFR §60.257) to comply with LCO 10.9(2)"a"(22).

H. The pressure differential across the baghouse shall be between 0.5 inches of water column and 8.0 inches of water column.

I. The control equipment on this unit shall be maintained according to the manufacturer's specifications and good operating practices.

Authority for Requirement: LCPh ATI 6163 / PTO 6235

**Operating Condition Monitoring and Recordkeeping:**

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.
A. The owner or operator shall record each month the sum of the actual PM$_{10}$ emissions from the following emission points: EP-503, EP-514, and EP-515.

B. The owner or operator shall record each month the 12-month rolling value of the actual emissions minus the baseline actual emissions from the following emission points: EP-503, EP-514, and EP-515. This written record shall be retained by the owner or operator for a period of ten (10) years after the resumption of regular operations following completion of Project 1722.

C. The facility is allowed to exclude those emissions following this change that could have been accommodated during the consecutive 24-month period used to establish BAE, and is unrelated to this project (i.e., increased utilization due to demand growth). The facility shall be required to include a justification for any emissions excluded due to demand growth.

D. The owner or operator of this equipment shall comply with the monitoring and recordkeeping requirements listed in IDNR PSD Permit 86-A-093.

E. Notification and recordkeeping requirements for NSPS Subpart A shall be done in accordance with 40 CFR §60.7.

F. General notification and reporting requirements for NSPS Subpart A shall be done in accordance with 40 CFR §60.19.

G. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operate or equipment associated with the exceedance, and record the corrective action taken.

H. The owner or operator shall record all maintenance and repair completed on the control device.

I. The owner or operator shall monitor and record the differential pressure across the baghouse on a weekly basis.

Authority for Requirement: LCPH ATI 6163 / PTO 6235

**Emission Point Characteristics**

The emission point shall conform to the specifications listed below:

Stack Height, (ft, from the ground): 165
Discharge Style: Vertical, unobstructed
Stack Opening, (inches, diameter): 36
Exhaust Temperature (°F): 103°F
Exhaust Flow Rate (acfm): 45,441

Authority for Requirement: LCPH ATI 6163 / PTO 6235

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:**
The following stack tests shall be performed:

- **Pollutant – Particulate Matter**
  1st Stack Test to be Completed by – within first two years of permit term
  Test Method – Method 5 (40 CFR Part 60, Appendix A)
  Authority for Requirement – 567 IAC 22.108(3)

- **Pollutant – PM10**
  1st Stack Test to be Completed by – within first two years of permit term
  Test Method – Method 201A with 202 (40 CFR 51) or approved alternative
  Authority for Requirement – 567 IAC 22.108(3)

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

**Opacity Monitoring:**
The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity > 0% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(3)

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

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

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

1 Facility maintained operation & maintenance plan is required for PM.
2 Compliance Assurance Monitoring plan is required for PM10. Refer to Appendix B, CAM Plans, for the complete compliance assurance monitoring plan.
Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source’s compliance with the applicable requirements.

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

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

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: SEP-504
Process Area: COGENERATION

Table Co-Gen 26. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
<th>CE ID</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-504</td>
<td>EU-504</td>
<td>Crusher Building D.C. System</td>
<td>Coal</td>
<td>1800 ton/hr</td>
<td>CE-504</td>
<td>Baghouse</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 Co-Gen 27. Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Opacity</th>
<th>Particulate Matter</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-504</td>
<td>EU-504</td>
<td>0% &lt;5% at pick-up points</td>
<td>0.01 gr/dscf</td>
<td>DNR Permit #86-A-092</td>
</tr>
</tbody>
</table>

Table Co-Gen 28. General Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Pollutant</th>
<th>Emission Limit(s)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-504</td>
<td>EU-504</td>
<td>Opacity</td>
<td>20%</td>
<td>40 CFR §60.252(c) Subpart Y 567 IAC 23.1(2)&quot;v&quot; LCO 10.9(2)&quot;a&quot;(22) LCO 10.7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PM</td>
<td>0.1 gr/dscf</td>
<td>567 IAC 23.3(2)&quot;a&quot;(2) LCO 10.9(1)&quot;a&quot; LCPH ATI 5801 / PTO 5970</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PM_{10}</td>
<td>2.18 lb/hr</td>
<td>LCPH ATI 5801 / PTO 5970</td>
</tr>
</tbody>
</table>

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

NSPS Requirements:
These units are subject to 40 CFR Part 60 NSPS Subpart Y, Standards of Performance for Coal Preparation Plants.

The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. 40 CFR §60.11(c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is
not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR §60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment, or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR §60.12

Authority for Requirement: 567 IAC 23.1(2)

Operating Limits:
_The owner or operator of this equipment shall comply with the operational limits and requirements listed below:_

A. This facility shall meet all applicable requirements of NSPS Subpart A (40 CFR §60.1 through 40 CFR §60.19) to comply with LCO 10.9(2).

B. This facility shall meet the applicable standards for coal processing and conveying equipment, coal storage systems, transfer and loading systems, and open storage piles of NSPS Subpart Y (40 CFR §60.250 through 40 CFR §60.258) to comply with LCO 10.9(2)"a"(22).

C. This facility shall meet the performance tests and other compliance requirements of NSPS Subpart Y (40 CFR §60.255) to comply with LCO 10.9(2)"a"(22).

D. This facility shall meet the test methods and procedures of NSPS Subpart Y (40 CFR §60.257) to comply with LCO 10.9(2)"a"(22).

E. The pressure differential across the baghouse shall be between 0.5 inches of water column and 8.0 inches of water column.

F. The control equipment on this unit shall be maintained according to the manufacturer's specifications and good operating practices.

Authority for Requirement: LCPH ATI 5801 / PTO 5970

Operating Condition Monitoring and Recordkeeping:
All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. Notification and recordkeeping requirements for NSPS Subpart A shall be done in accordance with 40 CFR §60.7.

B. General notification and reporting requirements for NSPS Subpart A shall be done in accordance with 40 CFR §60.19.

C. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.

D. The differential pressure across the baghouse shall be monitored and recorded on a weekly basis.
E. Maintain records of all maintenance completed on the control device.

Authority for Requirement: LCPH ATI 5801 / PTO 5970

**Emission Point Characteristics**

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

- Stack Height, (ft, from the ground): 61
- Discharge Style: Vertical, unobstructed
- Stack Opening, (inches, diameter): 36
- Exhaust Temperature (°F): 58°F
- Exhaust Flow Rate (acfm): 25,000

Authority for Requirement: LCPH ATI 5801 / PTO 5970

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:**

The following stack tests shall be performed:

- **Pollutant – Particulate Matter**
  - 1st Stack Test to be Completed by – within first two years of permit term
  - Test Method – Method 5 (40 CFR Part 60, Appendix A)
  - Authority for Requirement – 567 IAC 22.108(3)

- **Pollutant – PM10**
  - 1st Stack Test to be Completed by – within first two years of permit term
  - Test Method – Method 201A with 202 (40 CFR 51) or approved alternative
  - Authority for Requirement – 567 IAC 22.108(3)

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

**Opacity Monitoring:**

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of this unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective
action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity > 0% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(3)

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)
Table Co-Gen 29. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
<th>CE ID</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-505</td>
<td>EU-505</td>
<td>Limestone Unloading Dust Collector</td>
<td>Limestone</td>
<td>250 ton/hr</td>
<td>CE-505</td>
<td>Baghouse</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 Co-Gen 30. General Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Pollutant</th>
<th>Emission Limit(s)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-505</td>
<td>EU-505</td>
<td>Opacity</td>
<td>20%</td>
<td>LCO 10.7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PM</td>
<td>0.1 gr/dscf</td>
<td>567 IAC 23.3(2)&quot;a&quot;(2)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PM</td>
<td>2.18 lb/hr</td>
<td>LCPH ATI 5802 / PTO 5971</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 of this equipment shall comply with the operational limits and requirements listed below:

- A. The differential pressure across the baghouse shall be maintained between 0.5 inches of water column and 8.0 inches of water column.

Authority for Requirement: LCPH ATI 5802 / PTO 5971

**Operating Condition Monitoring and Recordkeeping:**
All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

- A. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will required the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.

- B. The differential pressure across the baghouse shall be monitored and recorded on a weekly basis.

- C. All maintenance performed on the control device shall be recorded.
**Emission Point Characteristics**
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 150
Discharge Style: Vertical, unobstructed
Stack Opening, (inches, diameter): 36
Exhaust Temperature (°F): 58°F
Exhaust Flow Rate (acfm): 25,000

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:**
Stack testing is not required at this time.

**Opacity Monitoring:**
The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)
Agency Approved Operation & Maintenance Plan Required? Yes ☑ No ☐
Facility Maintained Operation & Maintenance Plan Required? Yes ☑ No ☐
Compliance Assurance Monitoring (CAM) Plan Required? Yes ☑ ¹ No ☐

¹ Compliance Assurance Monitoring is required for PM and a facility maintained operation and maintenance plan is required for PM₁₀; however, as PM and PM₁₀ are controlled by the same equipment, and CAM is more stringent, the facility maintained operation and maintenance plan requirement has been waived.

Authority for Requirement: 567 IAC 22.108(3)
Refer to Appendix B, CAM Plans, for the complete compliance assurance monitoring plan.
Emission Point ID Number: SEP-506  
Process Area: COGENERATION

Table Co-Gen 31. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
<th>CE ID</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-506</td>
<td>EU-506</td>
<td>Fly Ash Conveying</td>
<td>Fly Ash</td>
<td>55 ton/hr</td>
<td>CE-506</td>
<td>Baghouse</td>
</tr>
<tr>
<td></td>
<td>EU-507</td>
<td>Dust Collector A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EU-509</td>
<td>Bed Ash Conveying</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EU-510</td>
<td>Dust Collector A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EU-520</td>
<td>Dust Collector C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EU-541</td>
<td>Dust Collector C</td>
<td></td>
<td></td>
<td></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.*

Table Co-Gen 32. Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Opacity</th>
<th>PM$_{10}$</th>
<th>Particulate Matter</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-506</td>
<td>EU-506</td>
<td>0%</td>
<td>1.95 lb/hr</td>
<td>0.02 gr/dscf</td>
<td>DNR Permit #86-A-096</td>
</tr>
<tr>
<td></td>
<td>EU-507</td>
<td></td>
<td></td>
<td>1.95 lb/hr</td>
<td>DNR Permit #88-A-023</td>
</tr>
<tr>
<td></td>
<td>EU-509</td>
<td></td>
<td></td>
<td></td>
<td>DNR Permit #86-A-099</td>
</tr>
<tr>
<td></td>
<td>EU-510</td>
<td></td>
<td></td>
<td></td>
<td>DNR Permit #86-A-100</td>
</tr>
<tr>
<td></td>
<td>EU-520</td>
<td></td>
<td></td>
<td></td>
<td>LCPH ATI 5803 / PTO 5972</td>
</tr>
<tr>
<td></td>
<td>EU-541</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Table Co-Gen 33. General Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Pollutant</th>
<th>Emission Limit(s)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-506</td>
<td>EU-506</td>
<td>Opacity</td>
<td>20%</td>
<td>LCO 10.7</td>
</tr>
<tr>
<td></td>
<td>EU-507</td>
<td>PM</td>
<td>0.1 gr/dscf</td>
<td>567 IAC 23.3(2)&quot;a&quot;(2)</td>
</tr>
<tr>
<td></td>
<td>EU-509</td>
<td></td>
<td></td>
<td>LCO 10.9(1)&quot;a&quot;</td>
</tr>
</tbody>
</table>
Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Control Device:
A baghouse shall be used to control particulate emissions for SEP-506, SEP-507, SEP-509, SEP-510, SEP-520, and SEP-541, each. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors, and gauges needed to measure the parameters outlined in ‘Operating Condition Monitoring and Recordkeeping’ shall be installed, maintained, and operating during the operation of the emission unit and control device at all times.

Authority for requirement: LCPH ATI 5803 / PTO 5972

Operating Limits:
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

A. The differential pressure across each baghouse (CE-506, CE-507, CE-509, CE-510, CE-520, and CE-541) shall be between 0.5 inches of water column and 8.0 inches of water column.

Authority for requirement: LCPH ATI 5803 / PTO 5972

At no time shall more than two of the following three emission units operate simultaneously: EU-506, EU-507, and EU-520.

Authority for requirement: IDNR Permit 88-A-023; IDNR Permit 86-A-096

At no time shall more than two of the following three emission units operate simultaneously: EU-509, EU-510, and EU-541.

Authority for requirement: IDNR Permit 86-A-099; IDNR Permit 86-A-100

Operating Condition Monitoring and Recordkeeping:
All records, as required by this permit, shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. The differential pressure across each baghouse (CE-506, CE-507, CE-509, CE-510, CE-520, and CE-541) shall be monitored and recorded on a weekly basis.

B. All maintenance performed on the control devices shall be recorded.

Authority for requirement: LCPH ATI 5803 / PTO 5972

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

Stack Height, (ft, from the ground): 145
Discharge Style: Vertical, unobstructed
Stack Opening, (inches, diameter): 16
Exhaust Temperature (°F): 160°F
Exhaust Flow Rate (acfm): 13,350

Authority for Requirement: LCPH ATI 5803 / PTO 5972
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:**
Stack testing is not required at this time.

**Opacity Monitoring:**
The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of this unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than 8 hours from the observation of visible emissions. If corrective action does not return the observation to 'no visible emissions,' then a Method 9 observation will be required.

If an opacity > 0% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than 8 hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for requirement: 567 IAC 22.108(14)

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

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

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on-site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility’s implementation of its obligation to operate according to good air pollution control practice.
Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: SEP-508, SEP-511, SEP-534, SEP-538  
Process Area: COGENERATION

Table Co-Gen 34. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
<th>CE ID</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-508</td>
<td>EU-508</td>
<td>Fly Ash Silo Vent Dust Collector</td>
<td>Fly Ash</td>
<td>110 ton/hr</td>
<td>CE-508</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-511</td>
<td>EU-511</td>
<td>Bed Ash Silo Vent Dust Collector</td>
<td>Bed Ash</td>
<td>85 ton/hr</td>
<td>CE-511</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-534</td>
<td>EU-534</td>
<td>Fly Ash Silo Vent</td>
<td>Fly Ash</td>
<td>30 ton/hr</td>
<td>CE-534</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-538</td>
<td>EU-538</td>
<td>Bed Ash Silo Vent</td>
<td>Bed Ash</td>
<td>14 ton/hr</td>
<td>CE-538</td>
<td>Baghouse</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 Co-Gen 35. Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Opacity</th>
<th>PM_{10}</th>
<th>Particulate Matter</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-508</td>
<td>EU-508</td>
<td>0%</td>
<td>0.02 gr/dscf</td>
<td></td>
<td>DNR Permit #86-A-095</td>
</tr>
<tr>
<td>SEP-511</td>
<td>EU-511</td>
<td>0%</td>
<td>0.02 gr/dscf</td>
<td></td>
<td>DNR Permit #86-A-097</td>
</tr>
<tr>
<td>SEP-534</td>
<td>EU-534</td>
<td>10%</td>
<td>0.012 gr/dscf</td>
<td>0.012 gr/dscf</td>
<td>DNR PSD Permit #98-A-511-P2, LCPH ATI 3733 / PTO 4737</td>
</tr>
<tr>
<td>SEP-534</td>
<td>EU-534</td>
<td></td>
<td>0.21 lb/hr*</td>
<td></td>
<td>DNR PSD Permit #98-A-511-P2, LCPH ATI 3733 / PTO 4737</td>
</tr>
<tr>
<td>SEP-538</td>
<td>EU-538</td>
<td>10%</td>
<td>0.012 gr/dscf</td>
<td>0.012 gr/dscf</td>
<td>DNR PSD Permit #98-A-515-P2, LCPH ATI 3729 / PTO 4733</td>
</tr>
<tr>
<td>SEP-538</td>
<td>EU-538</td>
<td></td>
<td>0.21 lb/hr*</td>
<td></td>
<td>DNR PSD Permit #98-A-515-P2, LCPH ATI 3729 / PTO 4733</td>
</tr>
</tbody>
</table>

*Emission rate used to demonstrate the boiler project was below PSD significant impact levels for PM_{10}.

Table Co-Gen 36. General Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Pollutant</th>
<th>Emission Limit(s)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-508</td>
<td>EU-508</td>
<td>Opacity</td>
<td>20%</td>
<td>LCO 10.7</td>
</tr>
<tr>
<td>SEP-511</td>
<td>EU-511</td>
<td>PM</td>
<td>0.1 gr/dscf</td>
<td>567 IAC 23.3(2)&quot;a&quot;(2) LCO 10.9(1)&quot;a&quot;</td>
</tr>
</tbody>
</table>
Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Control Device:
A baghouse shall be used to control particulate matter emissions for SEP-534 and SEP-538. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 3733 / PTO 4737
LCPH ATI 3729 / PTO 4733

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

Table Co-Gen 37.

<table>
<thead>
<tr>
<th>EP</th>
<th>LCPH ATI / PTO Numbers</th>
<th>Stack Characteristics</th>
<th>Stack Height (feet, above ground)</th>
<th>Discharge Style</th>
<th>Stack Opening (inches, dia.)</th>
<th>Exhaust Temp. (°F)</th>
<th>Exhaust Flow Rate (scfm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-534</td>
<td>3733 / 4737</td>
<td></td>
<td>127</td>
<td>Horizontal</td>
<td>24 x 48</td>
<td>70</td>
<td>2,100</td>
</tr>
<tr>
<td>SEP-538</td>
<td>3729 / 4733</td>
<td></td>
<td>127</td>
<td>Horizontal</td>
<td>24 x 48</td>
<td>70</td>
<td>2,100</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.

Stack Testing:
Stack testing is not required at this time.

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity greater than the applicable standard listed in Table Co-Gen 35 above is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than
eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(3)

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

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

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

Facility maintained operation & maintenance plan is required for PM and PM$_{10}$ for SEP-534 and SEP-538.

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

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

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

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: SEP-512, SEP-513  
Process Area: COGENERATION

Table Co-Gen 38. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
<th>CE ID</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-512</td>
<td>EU-512</td>
<td>Transferring Limestone into Storage Dust Collector</td>
<td>Limestone</td>
<td>250 ton/hr</td>
<td>CE-512</td>
<td>Bin Vent Filter</td>
</tr>
<tr>
<td>SEP-513</td>
<td>EU-513</td>
<td>Transferring Limestone into Storage Dust Collector</td>
<td>Limestone</td>
<td>250 ton/hr</td>
<td>CE-513</td>
<td>Bin Vent Filter</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 Co-Gen 39. General Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Pollutant</th>
<th>Emission Limit(s)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-512</td>
<td>EU-512</td>
<td>Opacity</td>
<td>20%</td>
<td>LCO 10.7</td>
</tr>
<tr>
<td>SEP-513</td>
<td>EU-513</td>
<td>PM</td>
<td>0.1 gr/dscf</td>
<td>567 IAC 23.3(2)&quot;a&quot;(2) LCO 10.9(1)&quot;a&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PM&lt;sub&gt;10&lt;/sub&gt;</td>
<td>0.086 lb/hr</td>
<td>ATI 6730 / PTO 6611 ATI 6729 / PTO 6612</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 shall be maintained according to the manufacturer's specifications and good operating practices.

B. The differential pressure across the bin vent filter shall be 0.2 inches of water column to 6 inches of water column.

Authority for Requirement: LCPH ATI 6730 / PTO 6611 LCPH ATI 6729 / PTO 6612

Operating Condition Monitoring and Recordkeeping:

Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to
promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.

B. Record all maintenance and repair completed on the control device.

C. Monitor and record differential pressure across the bin vent filter on a weekly basis.

Authority for Requirement: LCPH ATI 6730 / PTO 6611
LCPH ATI 6729 / PTO 6612

**Emission Point Characteristics**

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

**Table Co-Gen 40.**

<table>
<thead>
<tr>
<th>EP</th>
<th>LCPH ATI / PTO Numbers</th>
<th>Stack Characteristics</th>
<th>Stack Height (feet, above ground)</th>
<th>Discharge Style</th>
<th>Stack Opening (inches, dia.)</th>
<th>Exhaust Temp. (°F)</th>
<th>Exhaust Flow Rate (scfm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-512</td>
<td>6730 / 6611</td>
<td></td>
<td>138</td>
<td>Horizontal</td>
<td>7.5 x 10</td>
<td>68</td>
<td>1,000</td>
</tr>
<tr>
<td>SEP-513</td>
<td>6729 / 6612</td>
<td></td>
<td>138</td>
<td>Horizontal</td>
<td>7.5 x 10</td>
<td>68</td>
<td>1,000</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.*

**Stack Testing:**
Stack testing is not required at this time.

**Opacity Monitoring:**
The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation
attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: SEP-514, SEP-515  
Process Area: COGENERATION

Table Co-Gen 41. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
<th>CE ID</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-514</td>
<td>EU-514</td>
<td>Coal Truck Dump Pit Dust Collector (South)</td>
<td>Coal</td>
<td>1,200 ton/hr</td>
<td>CE-514</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-515</td>
<td>EU-515</td>
<td>Coal Truck Dump Pit Dust Collector (North)</td>
<td>Coal</td>
<td>1,200 ton/hr</td>
<td>CE-514</td>
<td>Baghouse</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 Co-Gen 42. Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Opacity</th>
<th>PM$_{10}$</th>
<th>Particulate Matter</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-514</td>
<td>EU-514</td>
<td>10%</td>
<td>0.18 tpy</td>
<td></td>
<td>DNR Permit #86-A-094</td>
</tr>
<tr>
<td>SEP-515</td>
<td>EU-515</td>
<td>10%</td>
<td>0.01 gr/dscf</td>
<td></td>
<td>40 CFR §60.254(b)(2) Subpart Y</td>
</tr>
<tr>
<td>SEP-514</td>
<td>EU-514</td>
<td>10%</td>
<td>0.01 gr/dscf</td>
<td></td>
<td>40 CFR §60.254(b)(2) Subpart Y</td>
</tr>
<tr>
<td>SEP-515</td>
<td>EU-515</td>
<td>10%</td>
<td>0.01 gr/dscf</td>
<td></td>
<td>40 CFR §60.254(b)(2) Subpart Y</td>
</tr>
<tr>
<td>SEP-514</td>
<td>EU-514</td>
<td>10%</td>
<td>0.01 gr/dscf</td>
<td></td>
<td>40 CFR §60.254(b)(2) Subpart Y</td>
</tr>
<tr>
<td>SEP-515</td>
<td>EU-515</td>
<td>10%</td>
<td>0.01 gr/dscf</td>
<td></td>
<td>40 CFR §60.254(b)(2) Subpart Y</td>
</tr>
</tbody>
</table>

Table Co-Gen 43. General Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Pollutant</th>
<th>Emission Limit(s)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-514</td>
<td>EU-514</td>
<td>Opacity</td>
<td>20%</td>
<td>LCO 10.7</td>
</tr>
<tr>
<td>SEP-515</td>
<td>EU-515</td>
<td>PM</td>
<td>0.1 gr/dscf</td>
<td>567 IAC 23.3(2)&quot;a&quot;(2)</td>
</tr>
<tr>
<td>SEP-515</td>
<td>EU-515</td>
<td>PM</td>
<td>0.1 gr/dscf</td>
<td>LCO 10.9(1)&quot;a&quot;</td>
</tr>
</tbody>
</table>

1 An exceedance of no visible emissions will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, Linn County may require additional proof to demonstrate compliance (e.g., stack testing).
2 Emission rate used to demonstrate no exceedance of the National Ambient Air Quality Standards (NAAQS).
3 This emission limit is a PSD synthetic minor limit that was established for this project, which includes SEP-503, SEP-514, and SEP-515. Compliance with this annual emission limit is demonstrated pursuant to “Operating Condition Monitoring and Recordkeeping.”

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

These units are subject to 40 CFR 60 NSPS Subpart Y, Standards of Performance for Coal Preparation Plants.

The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. 40 CFR §60.11(c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR §60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR §60.12

Authority for Requirement: 567 IAC 23.1(2)

This source is not subject to a NESHAP at this time.

Authority for Requirement:  
LCPH ATI 6108 / PTO 6236  
LCPH ATI 6120 / PTO 6237

**Control Device:**

A baghouse shall be installed to control particulate emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors, and gauges need to measure the parameters outlined in “Operating Condition Monitoring and Recordkeeping” shall be installed, maintained, and operating during the operation of the emission unit and control device at all times.

Authority for Requirement:  
LCPH ATI 6108 / PTO 6236  
LCPH ATI 6120 / PTO 6237

**Operating Limits:**

A. This source shall be limited to a monthly average of 110 hours of operation per week.

B. The differential pressure across the baghouse shall be 0.5 inches of water column to 8 inches of water column.

C. This facility shall meet all applicable requirements of 40 CFR Part 60 (NSPS Subpart A) to comply with LCO 10.9(2).

D. This facility shall meet the applicable standards for coal processing and conveying equipment, coal storage systems, transfer and loading systems, and open storage piles of 40 CFR §60.254 (NSPS Subpart Y) to comply with LCO 10.9(2)"a"(22).

E. This facility shall meet the performance tests and other compliance requirements of 40 CFR §60.255 (NSPS Subpart Y) to comply with LCO 10.9(2)"a"(22).
F. This facility shall meet the test methods and procedures of 40 CFR §60.257 (NSPS Subpart Y) to comply with LCO 10.9(2)"a"(22).

G. The baseline actual emissions for the project are equal to 3.39 tons per year for PM10. The baseline actual emissions shall remain unchanged throughout the ten (10) year period following the issuance of this permit.

H. The owner or operator shall determine the actual emissions for the project by summing the emissions from the following emission points each month: SEP-503, SEP-514, and SEP-515.

I. Actual emissions minus the baseline actual emissions from the project shall not exceed the PSD significant levels: 14.4 tons per 12-month rolling period of PM10. If these limits are exceeded during the ten (10) year review period, the owner or operator shall submit a report pursuant to 567 IAC 33.3(18)"f"(7).

Authority for Requirement: LCPH ATI 6108 / PTO 6236
LCPH ATI 6120 / PTO 6237

Operating Condition Monitoring and Recordkeeping:
Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. The owner/operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.

B. Hours of operation of the coal dump pit dust collection system.

C. Record all maintenance and repair completed on the control device.

D. Monitor and record differential pressure across the baghouse on a weekly basis.

E. Notification and recordkeeping requirements for NSPS Subpart A shall be done in accordance with 40 CFR §60.7.

F. General notification and reporting requirements for NSPS Subpart A shall be done in accordance with 40 CFR §60.19.

G. Record each month the sum of the actual PM10 emissions from the following emission points: SEP-503, SEP-514, and SEP-515.

H. Record each month the 12-month rolling value of the actual emission minus the baseline actual emissions from the following emission points: SEP-503, SEP-514, and SEP-515. This written record shall be retained by the owner or operator for a period of ten (10) years after the project is completed.
I. The facility is allowed to exclude those emissions following this change that could have been accommodated during the consecutive 24-month period used to establish BAE, and is unrelated to this project (i.e., increased utilization due to demand growth). The facility shall be required to include a justification for any emissions excluded due to demand growth.

Authority for Requirement: LCPH ATI 6108 / PTO 6236
LCPH ATI 6120 / PTO 6237

Reporting:
The owner or operator shall submit to the department the 12-month rolling value of the actual emissions minus the baseline actual emissions each calendar year. This information must be postmarked by March 31 for each calendar year submitted (i.e., the initial report shall be postmarked by March 31, 2012).

Authority for Requirement: LCPH ATI 6108 / PTO 6236
LCPH ATI 6120 / PTO 6237

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

**Table Co-Gen 44.**

<table>
<thead>
<tr>
<th>EP</th>
<th>LCPH ATI / PTO Numbers</th>
<th>Stack Characteristics</th>
<th>Stack Characteristics</th>
<th>Stack Opening (inches, dia.)</th>
<th>Exhaust Temp. (°F)</th>
<th>Exhaust Flow Rate (scfm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-514</td>
<td>6108 / 6236</td>
<td>85</td>
<td>Vertical, unobstructed</td>
<td>52</td>
<td>70</td>
<td>75,000</td>
</tr>
<tr>
<td>SEP-515</td>
<td>6120 / 6237</td>
<td>85</td>
<td>Vertical, unobstructed</td>
<td>52</td>
<td>70</td>
<td>75,000</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.

**Stack Testing:**
The following stack tests shall be performed:

- Pollutant – Particulate Matter
  - 1st Stack Test to be Completed by – within first two years of permit term
  - Test Method – Method 5 (40 CFR Part 60, Appendix A)
  - Authority for Requirement – 567 IAC 22.108(3)
Pollutant – Particulate Matter (PM₁₀)¹
1st Stack Test to be Completed by – within first two years of permit term
Test Method – Method 201A with 202 (40 CFR Part 51, Appendix M)
Authority for Requirement – 567 IAC 22.108(3)

¹ ADM may choose to perform the required tests on either the North or South Coal Truck Dump Pit Dust Collector. One set of tests may be used to represent emissions and compliance from both emission points. If the test results for any pollutant are 90% or above of the applicable standard, additional testing of both dust collectors shall be required. A test protocol must be approved by the Department's stack testing personnel prior to testing.

*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)*

**Opacity Monitoring:**
The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >10 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No X
Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No X
Compliance Assurance Monitoring (CAM) Plan Required? Yes X¹ No ☐

¹ Compliance Assurance Monitoring is required for PM₁₀ and a facility maintained operation and maintenance plan is required for PM; however, as PM and PM₁₀ are controlled by the same equipment, and CAM is more stringent, the facility maintained operation and maintenance plan requirement is waived.

Authority for Requirement: 567 IAC 22.108(3)

Refer to Appendix B, CAM Plans, for the complete compliance assurance monitoring plan.
Emission Point ID Number: SEP-521
Process Area: COGENERATION

Table Co-Gen 45. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
<th>CE ID</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-521</td>
<td>EU-521</td>
<td>Co-Gen HCl and Neutralization Tanks</td>
<td>HCl</td>
<td>10,000 gal/hr</td>
<td>CE-521A CE-521B</td>
<td>Venturi Scrubber &amp; Neutralization Tank Spray Scrubber</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 Co-Gen 46. Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Opacity</th>
<th>PM$_{10}$</th>
<th>Particulate Matter</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-521</td>
<td>EU-521</td>
<td>0.26 lb/hr$^1$</td>
<td>0.26 lb/hr$^1$</td>
<td>LCPH ATI 4943 / PTO 5306</td>
<td></td>
</tr>
</tbody>
</table>

Table Co-Gen 47. General Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Pollutant</th>
<th>Emission Limit(s)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-521</td>
<td>EU-521</td>
<td>Opacity</td>
<td>20%</td>
<td>LCO 10.7 LCPH ATI 4943 / PTO 5306</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PM</td>
<td>0.1 gr/dscf</td>
<td>567 IAC 23.3(2)&quot;a&quot;(2) LCO 10.9(1)&quot;a&quot; LCPH ATI 4943 / PTO 5306</td>
</tr>
</tbody>
</table>

$^1$It is assumed that PM is equal to PM$_{10}$.

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

Control Device:
A venturi and a spray scrubber shall be used to control HCl emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 4943 / PTO 5306

Operating Limits:
- A. Fresh water flow to the spray scrubber shall be maintained at 3 gallons per minute or greater.

Authority for Requirement: LCPH ATI 4943 / PTO 5306
Operating Condition Monitoring and Recordkeeping:
All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. Record the fresh water flow to the spray scrubber on a daily basis.

B. Monitor and record "no visible emissions" observations on a weekly basis.

C. Records of all maintenance and repairs completed on the control device.

Authority for Requirement: LCPH ATI 4943 / PTO 5306

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

- Stack Height (ft, from ground): 24
- Discharge Style: Vertical, unobstructed
- Stack Opening (inches, diameter): 16
- Exhaust Temperature (°F): 65
- Exhaust Flow Rate (scfm): 300

Authority for Requirement: LCPH ATI 4943 / PTO 5306

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

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

Stack testing is not required at this time.

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)
<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: SEP-522, SEP-539
Process Area: COGENERATION

Table Co-Gen 48. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
<th>CE ID</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-522</td>
<td>EU-522</td>
<td>Co-gen Turbine Lube Oil Tanks 1-5</td>
<td>Oil</td>
<td>19,800 gal/hr</td>
<td>CE-522</td>
<td>Precipitator</td>
</tr>
<tr>
<td>SEP-539</td>
<td>EU-539</td>
<td>Co-gen Turbine Lube Oil Tank No. 6</td>
<td>Oil</td>
<td>2,810 gallons</td>
<td>CE-539</td>
<td>Precipitator</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 Co-Gen 49. Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Opacity</th>
<th>Permit #</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-522</td>
<td>EU-522</td>
<td>10%</td>
<td>LCPH ATI 4092 / PTO 4035</td>
</tr>
<tr>
<td>SEP-539</td>
<td>EU-539</td>
<td>10%</td>
<td>LCPH ATI 4093 / PTO 4293</td>
</tr>
</tbody>
</table>

Table Co-Gen 50. General Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Pollutant</th>
<th>Emission Limit(s)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-522</td>
<td>EU-522</td>
<td>Opacity</td>
<td>20%</td>
<td>LCO 10.7</td>
</tr>
<tr>
<td>SEP-539</td>
<td>EU-539</td>
<td>PM</td>
<td>0.1 gr/dscf</td>
<td>567 IAC 23.3(2)&quot;a&quot;(2) LCO 10.9(1)&quot;a&quot;</td>
</tr>
</tbody>
</table>

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

Control Device:
A Smog-Hog Air Cleaning System (SH-10-PE-XB for SEP-539) shall be used to control particulate emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 4092 / PTO 4035
LCPH ATI 4093 / PTO 4293

Operating Limits:
A. The oil tank SEP-539 shall not exceed 2810 gallons.

Authority for Requirement: LCPH ATI 4093 / PTO 4293

Operating Condition Monitoring and Recordkeeping:
A. A log of operation shall be maintained for the operation of SEP-539.
B. Amount of oil consumed tracked on a 12-month rolling total.

C. All monitors shall be easily accessible to air pollution personnel.

D. 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 Linn County AQD and other federal or state air pollution regulatory agencies and/or their authorized representatives.

Authority for Requirement:  LCPH ATI 4093 / PTO 4293

**Emission Point Characteristics**

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

**Table Co-Gen 51.**

<table>
<thead>
<tr>
<th>EP</th>
<th>LCPH ATI / PTO Numbers</th>
<th>Stack Characteristics</th>
<th>Stack Height (feet, above ground)</th>
<th>Discharge Style</th>
<th>Stack Opening (inches, dia.)</th>
<th>Exhaust Temp. (°F)</th>
<th>Exhaust Flow Rate (scfm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-522</td>
<td>4092 / 4035</td>
<td></td>
<td>23</td>
<td>Horizontal</td>
<td>10</td>
<td>140</td>
<td>850</td>
</tr>
<tr>
<td>SEP-539</td>
<td>4093 / 4293</td>
<td></td>
<td>20</td>
<td>Horizontal</td>
<td>12</td>
<td>140</td>
<td>132</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.*

**Opacity Monitoring:**

The facility shall check the opacity monthly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >10 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement:  567 IAC 22.108(14)
Agency Approved Operation & Maintenance Plan Required?  Yes ☑  No ☒
Facility Maintained Operation & Maintenance Plan Required?  Yes ☑ 1  No ☐
Compliance Assurance Monitoring (CAM) Plan Required?  Yes ☐  No ☑

1 Facility maintained operation & maintenance plan is required for PM and PM$_{10}$ for SEP-522 only.

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

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

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

Authority for Requirement:  567 IAC 22.108(3)
**Emission Point ID Number:** SEP-530  
**Process Area:** COGENERATION

### Table Co-Gen 52. Emission Point Description.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-530</td>
<td>EU-530A</td>
<td>Co-Gen Boiler No. 5</td>
<td>Coal</td>
<td>1500 MMBtu/hr</td>
</tr>
<tr>
<td>SEP-530</td>
<td>EU-530AN</td>
<td>Co-Gen Boiler No. 5</td>
<td>Natural Gas</td>
<td>0.28 MMCF/hr</td>
</tr>
<tr>
<td>SEP-530</td>
<td>EU-530AF</td>
<td>Co-Gen Boiler No. 5</td>
<td>Fuel Oil</td>
<td></td>
</tr>
</tbody>
</table>

### Table Co-Gen 53. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>CE ID</th>
<th>CE Description</th>
<th>ME ID</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>CE-530B</td>
<td>Selective Non-Catalytic Reduction</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>CE-530C</td>
<td>Limestone Injection</td>
<td></td>
</tr>
<tr>
<td>SEP-530</td>
<td>EU-530AN</td>
<td>CE-530A</td>
<td>Baghouse</td>
<td>ME-530A, ME-530B, ME-530C, ME-530D, ME-530E, ME-530F</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 Co-Gen 54. Opacity Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>Opacity</th>
<th>Authority for Requirement</th>
</tr>
</thead>
</table>
| SEP-530 | 20%, 6-minute average\(^1\) except for one 6-minute period per hour of not more than 27% | DNR PSD Permit #98-A-507-P2  
40 CFR §60.43b(f) Subpart Db  
40 CFR §60.46b(a) Subpart Db  
567 IAC 23.1(2)"ccc"  
LCO 10.9(2)"a"(55) |
| SEP-530 | 20%     | LCPH ATI 5096 / PTO 5045  
LCO 10.7 |

### Table Co-Gen 55. Particulate Matter Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>Particulate Matter</th>
<th>PM(_{10})(^3)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
</table>
| SEP-530 | 0.015 lb/MMBtu\(^2\) | 0.03 lb/MMBtu\(^2\) | DNR PSD Permit #98-A-507-P2  
LCPH ATI 5096 / PTO 5045 |
| SEP-530 | 22 ng/J, 0.051 lb/MMBtu | | DNR PSD Permit #98-A-507-P2  
LCPH ATI 5096 / PTO 5045  
40 CFR §60.43b(a)(1) Subpart Db  
40 CFR §60.46b(a) Subpart Db  
567 IAC 23.1(2)"ccc"  
LCO 10.9(2)"a"(55) |
### Table Co-Gen 56. Sulfur Dioxide (SO₂) Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>Sulfur Dioxide (SO₂)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-530</td>
<td>0.36 lb/MMBtu⁴, 92% reduction⁵</td>
<td>DNR PSD Permit #98-A-507-P2 / LCPH ATI 5096 / PTO 5045</td>
</tr>
<tr>
<td>SEP-530</td>
<td>674.88 lb/hr²,⁸,⁹</td>
<td>DNR PSD Permit #98-A-507-P2 / LCPH ATI 5096 / PTO 5045</td>
</tr>
<tr>
<td>SEP-530</td>
<td>1.2 lb/MMBtu, 92% reduction of equivalent inlet SO₂ rate⁵, 30-day rolling average</td>
<td>40 CFR §60.42b(a), (e), (g), Subpart Db 567 IAC 23.1(2)&quot;ccc&quot; / LCO 10.9(2)&quot;a&quot;(55)</td>
</tr>
<tr>
<td>SEP-530</td>
<td>1.5 lb/MMBtu when burning liquid fuel</td>
<td>LCO 10.12(1)&quot;b&quot;</td>
</tr>
<tr>
<td>SEP-530</td>
<td>500 ppmv</td>
<td>567 IAC 23.3(3)&quot;e&quot; / LCO 10.12(2)</td>
</tr>
</tbody>
</table>

### Table Co-Gen 57. Nitrogen Oxides Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>NOₓ</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-530</td>
<td>0.07 lb/MMBtu⁸,⁹</td>
<td>DNR PSD Permit #98-A-507-P2 / LCPH ATI 5096 / PTO 5045</td>
</tr>
<tr>
<td>SEP-530</td>
<td>260 ng/J, 0.6 lb/MMBtu¹⁰, 30-day rolling average</td>
<td>DNR PSD Permit #98-A-507-P2 / LCPH ATI 5096 / PTO 5045 40 CFR §60.44b(a)(3) Subpart Db 40 CFR §60.44b(h) through (i) Subpart Db 40 CFR §60.46(a) Subpart Db 567 IAC 23.1(2)&quot;ccc&quot; / LCO 10.9(2)&quot;a&quot;(55)</td>
</tr>
<tr>
<td>SEP-530</td>
<td>86 ng/J, 0.2 lb/MMBtu¹⁰, 30-day rolling average</td>
<td>40 CFR §60.44b(a)(1) Subpart Db 40 CFR §60.44b(h) through (i) Subpart Db 40 CFR §60.46(a) Subpart Db 567 IAC 23.1(2)&quot;ccc&quot; / LCO 10.9(2)&quot;a&quot;(55)</td>
</tr>
</tbody>
</table>

### Table Co-Gen 58. Volatile Organic Compounds (VOC) and Carbon Monoxide (CO) Emission Limits.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-530</td>
<td>0.0072 lb/MMBtu²</td>
<td>0.15 lb/MMBtu²</td>
<td>DNR PSD Permit #98-A-507-P2 / LCPH ATI 5096 / PTO 5045</td>
</tr>
</tbody>
</table>

### Table Co-Gen 59. Other Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>Fluorides</th>
<th>Lead</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-530</td>
<td>0.00124 lb/MMBtu²</td>
<td>0.000228 lb/MMBtu¹¹</td>
<td>DNR PSD Permit #98-A-507-P2 / LCPH ATI 5096 / PTO 5045</td>
</tr>
</tbody>
</table>

¹ Opacity and particulate matter standards apply at all times except periods of startup, shutdown, or malfunction.
² Standard is expressed as the average of 3 runs.
3 All particulate matter emissions after the baghouse were assumed to be PM$_{10}$ for dispersion modeling purposes.

4 This standard is a 30-day rolling average that includes periods of startup, shutdown, and malfunction.

5 This reduction is in the equivalent inlet SO$_2$ emission rate. The equivalent inlet SO$_2$ emission rate means the stack emissions (on a lb/MMBtu heat input basis) that would result from the combustion of "as fired" fuels in the boiler without SO$_2$ absorption, assuming 100% conversion of sulfur in the fuels to SO$_2$.

6 Emission rate used to demonstrate compliance with the National Ambient Air Quality Standards (NAAQS).

7 SO$_2$ emission limit is determined by the following formula:

$$ E_S = \frac{K_a H_a + K_b H_b}{H_a + H_b} $$

Where:
- $E_S$ is the SO$_2$ emission limit (in either ng/J or lb/MMBtu heat input)
- $K_a$ is 520 ng/J or 1.2 lb/MMBtu
- $K_b$ is 340 ng/J or 0.8 lb/MMBtu
- $H_a$ is the heat input from the combustion of coal (in either J or MMBtu)
- $H_b$ is the heat input from the combustion of oil (in either J or MMBtu)

Only the heat input supplied from the combustion of coal or oil is counted. No credit is provided for the heat input from the combustion of natural gas, wood, municipal-type solids waste, or other fuels or heat input from other sources such as gas turbines, internal combustion engines, kilns, etc. This limit is a 30-day rolling average and applies at all times including periods of startup, shutdown, and malfunction.

8 This standard is a 30-day rolling average that includes all periods of operation except for cold startup periods. A cold startup period is defined as that period of time when a coal-fired co-gen boiler is proceeding to increase the temperature in the lower combustor from less than 400°F to at least 1,500°F. This period shall last no more than forty-eight (48) hours and NO$_x$ emissions data from this period shall be excluded when determining compliance with the permitted emission limit. Ammonia injection shall begin as soon as the lower combustor temperature reaches 1,500°F and the cold startup period will end at this time. All data from cold startup periods after the first forty-eight (48) hours, or while ammonia is injected in the boiler, will be included in determining compliance with the optimized limit.

9 This emission limit is waived for the specific SNCR optimization study activity as detailed in "Operating Limits" not to extend more than 380 days after the Initial Compliance Demonstration of "Initial Performance Testing Requirements."

10 Per 40 CFR §60.44b(h) and 40 CFR §60.44(i), the limit is a 30-day rolling average that includes periods of startup, shutdown, and malfunction.

11 This standard is a three (3) month average.

**Operational Limits & Requirements**

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

**Control Device:**
Limestone injection shall be used to control SO$_2$ emissions, SNCR shall be used to reduce NO$_x$ emissions, a baghouse shall be used to control particulate matter, and combustion controls shall be used to reduce VOC and CO emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes,
monitors and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement:  LCPH ATI 5096 / PTO 5045

30-Day Rolling NOx and SO2 Emission Limits Compliance:
The initial performance tests using a Continuous Emission Monitoring System (CEMS) shall be conducted over the first 30 consecutive boiler operating days. The first day of these tests shall be completed within 30 days after achieving maximum production rate but no later than 180 days after initial startup of the facility.

For the initial 30-day rolling average compliance test, NOx and SO2 from the boiler shall be monitored for 30 consecutive boiler operating days. The 30-day average emission limit shall be calculated as the average of all valid hourly emission rate data recorded by the CEMS during the 30-day test period.

The owner/operator shall use all valid hourly stack emission data recorded by the SO2 CEM in conjunction with the corresponding gross heat input rate obtained through daily FSA to calculate each hourly emissions of SO2 in pounds per hour (lb/hr). The lb/hr emission data shall be incorporated into the quarterly report submitted to the Department.

Authority for Requirement:  DNR PSD Permit #98-A-507-P2
LCPH ATI 5096 / PTO 5045

30-Day Rolling SO2 Percent Reduction Compliance:
If only coal is combusted, the procedures specified in §60.45b(c)(2) shall apply.

If coal is combusted with other fuels, the procedures specified in §60.45b(c)(3) shall apply.

The initial performance tests using a CEMS and a Fuel Sampling Analysis (FSA) system shall be conducted over the first 30 successive boiler operating days. The first day of tests shall be completed within 30 days after achieving maximum production rate but no later than 180 days after initial startup of the facility. Performance tests using CEMS cannot be conducted until each CEMS is certified and accepted by the IDNR for such purposes.

The owner shall use all valid hourly stack emissions data recorded by the CEMS in conjunction with the corresponding equivalent inlet SO2 rate to calculate each hourly percent SO2 reduction achieved by each boiler. The 30-day average percent SO2 reduction shall be calculated as the average of all valid hourly percent reduction values collected during 30 consecutive boiler operating days during which the 92 percent reduction requirements applies. All valid emission data, including valid data collected during periods of startup, shutdown and malfunction, shall be used in the calculation.

A boiler operating day means any 24-hour period beginning at 7:00 a.m. and continuing to 7:00 a.m. the following day, during which any amount of fuel is combusted in the boiler. It is not necessary for fuel to be combusted continuously for the entire 24-hour period to qualify as a boiler operating day. Valid data includes any data collected during any period of fuel combustion and at all operating times.

Authority for Requirement:  DNR PSD Permit #98-A-507-P2
LCPH ATI 5096 / PTO 5045
NSPS and NESHAP Applicability:
This emission unit is subject to Subparts A (General Provisions, 40 CFR §60.1 – 40 CFR §60.19) and Db (Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units, 40 CFR §60.40b-40 CFR §60.49b) of the New Source Performance Standards (NSPS).
This emission unit is subject to Subparts A (General Provisions, 40 CFR §63.1 – 40 CFR §63.15) and DDDDD (National Emission Standard for Industrial, Commercial, and Institutional Boilers and Process Heaters 40 CFR §63.7480 – 40 CFR §63.7575) of the National Emission Standards for Hazardous Air Pollutants (NESHAP).
Authority for Requirement:   DNR PSD Permit #98-A-507-P2
                             LCPH ATI 5096 / PTO 5045

Operating Limits:
Operating limits for this emission source are:

A. The fuel combusted shall be limited to gas (for startup), oil (for startup), coal and less than 20% of blends of alternative fuels.

B. The alternative fuels combusted are limited to petroleum coke, tire derived fuel (TDF), wood derived fuels, corn gluten feed, corn germ, dried wastewater treatment biomass (from ADM’s Cedar Rapids and Clinton facilities only), oat hulls, shell corn, seed corn, and corn screenings.

C. The owner or operator must receive an approval from the IDNR central office before a fuel other than specified above is combusted in the boilers. The IDNR shall reevaluate the fuel and may impose best available control technology (BACT) emission standards (including a percent reduction requirement) for the fuel type (or combination) in question. Other PSD-related procedures (e.g., dispersion modeling studies) may also be required.

D. The owner/operator shall conduct a study on the boiler to determine the optimized performance of the SNCR system within one year after the startup date. The Department shall review the optimization study and revise the NOx emission limit as the Department determines is appropriate so as to reflect optimized performance of the SNCR system as indicated by the SNCR percent NOx reduction for the various operating conditions tested. The Department will include a margin of up to twenty percent (20%) to provide for excess emissions over an averaging period adequate to reflect the variability of the operating parameters the Department determines have the dominant impact on emission rates (it is anticipated that this adjustment will not exceed the "provisionally guaranteed" 0.12 lb/MMBtu). Prior to initiating the study, ADM shall submit a detailed study plan for the IDNR approval including the specific dates of the optimization study and the boiler operation conditions to be tested. The optimization study shall monitor and record, but not limited to, the following items:

1. Reagent injection rates;
2. Boiler NOx prior to injection;
3. Reagent injection to boiler NOx ratios;
4. Boiler temperature;
5. CO, SO2, and chlorine levels prior to injection;
6. Boiler load in MMBtu/hr and percent of rated capacity;
7. Steam generation rate;
8. Bed calcium to sulfur ratios;
9. Fuel type, percent ash and percent sulfur;
10. NO\textsubscript{x} emission rate;
11. SNCR NO\textsubscript{x} emission reduction, in percent;
12. Ammonia emission rates; and
13. Opacity

E. This information shall be collected or calculated hourly during the study unless otherwise specified in the detailed study plan to be submitted by ADM as approved by the IDNR. In addition, at least three separate visible emission tests shall be conducted for each set of operation/injection condition identified for the study.

F. Within one year after beginning operation, the optimization study data and report shall be submitted to the IDNR.

G. ADM shall submit a summary of study activities with the Quarterly CEM reports covering the same time period as the CEM report.

H. The owner shall furnish the IDNR written reports as follows:
   1. Initial Compliance Demonstration Reports required in "Initial Performance Testing Requirements."
   2. CEMS performance evaluation.
   3. The maximum heat input capacity data from the demonstration of the boiler's maximum heat input capacity.
   4. The owner shall submit a written emissions report to the IDNR central office each calendar quarter. Reports shall be submitted to the IDNR postmarked no later than 30 days after the end of the calendar quarter starting with the quarter in which initial startup of the boiler occurs. The report shall include the following:
      a. Calendar dates covered by the report;
      b. Dates and hours of startup, shutdown or malfunction;
      c. Type, quality and quantity of fuel combusted;
      d. Each hourly SO\textsubscript{2} and NO\textsubscript{x} emissions, a summary of excess opacity emissions and diluent gas emission rate, as well as each operating day's 30-day average SO\textsubscript{2} and NO\textsubscript{x} emission rate and percent SO\textsubscript{2} reduction determined during the reporting period;
      e. Each instance of excess emissions and of non-standard or manual data collection and how those data were collected, where data was excluded, exceeded full span of CEMS or was not available for any other reason, together with reasons for each of these instances of noncompliance and a description of the corrective actions taken, and any statistics required pursuant to 40 CFR §60.49b(m);
      f. "F" factor, method of determination and fuel description;
      g. Description of any modification to the CEMS and its potential effect on CEMS performance;
      h. Results of daily CEMS drift test and quarterly accuracy assessments and related data as required under 40 CFR Part 60, Appendix F;
      i. Coal sampling and analysis results; and
      j. Lead (Pb) quarterly test results.
I. The owner or operator shall record the amounts of each fuel combusted during each day and calculate a new annual capacity factor for each fuel type at the end of each calendar month as specified in 40 CFR §60.49b(d).

J. The owner or operator shall record the amounts of each fuel combusted during each day and calculate the annual capacity factor individually according to 40 CFR §60.49b(d).

K. The owner or operator shall record the net actual electrical output to any utility power distribution system for sale annually, calculated as an average over any three (3) calendar year period.

L. The owner or operator shall furnish the IDNR with final detailed plans and specifications for all emission control equipment selected by the owner to meet the emission limits contained in "Emission Limits." This information shall be submitted to the IDNR at least 30 days in advance of construction of any control equipment.

Authority for Requirement: DNR PSD Permit #98-A-507-P2
LCPH ATI 5096 / PTO 5045

Operating Condition Monitoring and Recordkeeping:
All records as required by this permit shall be kept on site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives. These records shall show the following:

A. The owner or operator shall maintain a record of periods of startup, shutdown, or malfunction. Operating hours shall be averaged on a 12-month basis rolled over monthly.

B. The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted during each day and calculate a new annual capacity factor for each fuel type at the end of each calendar month as specified in 40 CFR §60.49b(d).

C. The owner or operator shall maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually according to 40 CFR §60.49b(d).

D. The owner or operator shall maintain records of the net actual electrical output to any utility power distribution system for sale annually, calculated as an average over any three (3) calendar year period.

Authority for Requirement: DNR PSD Permit #98-A-507-P2
LCPH ATI 5096 / PTO 5045

E. Recordkeeping for NESHAP Subpart DDDDD shall be done according to 40 CFR §63.7555 and 40 CFR §63.7560.

F. Reporting for NESHAP Subpart DDDDD shall be done according to 40 CFR §63.7545 and 40 CFR §63.7550.

Authority for Requirement: LCPH ATI 5096 / PTO 5045
Continuous Emission Monitoring and Fuel Sampling Analysis:

A. SO2 and NOx

The owner shall continuously demonstrate compliance with the SO2 and NOx emission limitations and SO2 percent reduction requirements of this permit through the use of a CEMS and a FSA system. These systems shall be installed, operating and calibrated prior to beginning the initial compliance demonstration set forth according to 40 CFR §60.13.

Compliance with the SO2 and NOx emission rate limitations and the SO2 percent reduction requirements shall be calculated as the average of all valid hourly emission rate data and valid hourly SO2 percent reduction data for the 30 previous boiler operating days during which each standard applies. The owner shall calculate a new 30-day average at the end of each boiler operating day.

Unless otherwise approved by the Department, the selection of the CEMS span value (maximum data display output) for each parameter shall be those specified in 40 CFR Part 60 Subpart Db.

In addition to the provisions of 40 CFR Part 60, Appendix B, the performance specifications applicable to the CEMS required by the permit shall include a data recovery requirement of 90% and shall meet precision and accuracy requirements of 10% and 10% of the applicable standard, respectively, unless otherwise specified in the permit. When the minimum data requirements of the permit cannot be obtained, the methods and procedures of 40 CFR §60.47b(c) and §60.48b(f) shall be employed by the owner to obtain the required data.

Authority for Requirement: DNR PSD Permit #98-A-507-P2
LCPH ATI 5096 / PTO 5045

A.1. 30-Day Rolling NOx and SO2 Emission Limit Compliance

The owner shall install, calibrate, operate, maintain, audit, and record the output from CEMS capable of measuring SO2, NOx, and the appropriate diluent gas (oxygen or carbon dioxide). The CEMS shall be installed, calibrated, operated, maintained, and audited. Data shall be recorded in accordance with the provisions found at 40 CFR §60.13 (Monitoring Requirements); 40 CFR Part 60, Appendix B, Performance Specifications 2 and 3 (Specification and Test Procedures for SO2, NOx, and diluent CEMS); and 40 CFR Part 60, Appendix F (Quality Assurance Requirements for Gas CEMS Used for Compliance Determinations), as adopted by the Department by reference.

The CEMS shall be operated and data recorded during any period any fuel is combusted in the boiler. Hourly parts-per-million data recorded by the pollutant CEMS shall be converted to pound of pollutant per million BTU (lb/MMBtu) heat input using the equations and methodology specified in 40 CFR Part 60, Appendix A, Method 19 (as it appears in the July 1, 1997, Code of Federal Regulations). Hourly emission rate data shall be recorded and used by the owner/operator to calculate compliance with the applicable emission rates and percent reductions for the specified averaging times.

The owner shall successfully complete SO2 and NOx CEMS performance evaluations including relative accuracy and calibration drift assessment evaluations prior to beginning the initial compliance demonstration.

The owner shall notify the IDNR central office at least 30 days in advance of conducting any relative accuracy test.
A.2. SO2 Percent Reduction Compliance


Analyses shall be performed for weight percent sulfur (%S) and gross heat value (GHV, expressed in BTU/lb-fuel). The owner may develop an in-house fuel analysis program or may send collected samples to a laboratory for analysis. In either case, the analytical results shall be available to the proposed boiler operator within 72 hours of the sample collection time.

The "as-fired" fuel data shall be used to determine the equivalent hourly average SO2 inlet rate to the boiler, and shall be used in conjunction with the SO2 CEMS emission rate data to determine compliance with the SO2 30-day rolling percent reduction limit.

The owner shall calculate an equivalent SO2 rate for each bunker using the weight percent sulfur and the gross heating value obtained through daily FSA, using the equation specified in 40 CFR Part 60, Appendix A, Method 19, Section 5.3.2, Equations 19 through 24.

If the equivalent inlet SO2 rates for fuel contained in each day bunker which feeds to a single boiler differ by 0.2 lb-SO2/MMBtu heat input or less, the arithmetic average of the two equivalent SO2 inlet rates shall be used as the "equivalent hourly average SO2 inlet rate" for each hourly percent reduction calculation during the boiler operation day. Otherwise, the owner shall: (1) use the smaller of the two equivalent SO2 inlet rates as the "equivalent hourly average SO2 inlet rate" for each hourly percent reduction calculation during the boiler operating day, or (2) calculate an "equivalent hourly average SO2 inlet rate" for each hour of operation using the following heat input weighted equation:

$$\text{Equivalent Hourly Average SO2 Inlet Rate} = \frac{\left( W_1 \times \%S_1 + W_2 \times \%S_2 \right)}{\left( W_1 \times \text{GHV}_1 + W_2 \times \text{GHV}_2 \right) \times K}$$

Where:

- W1 = Tons of coal fed to first of paired day bunkers during hour
- W2 = Tons of coal fed to second of paired day bunkers during hour
- %S1 = Weight percent sulfur of coal contained in first bunker
- %S2 = Weight percent sulfur of coal contained in second bunker
- GHV1 = Gross heating value of coal contained in first bunker
- GHV2 = Gross heating value of coal contained in second bunker

$$K = 20,000 \left( \frac{lb \times BTU}{\% \times mmBTU} \right)$$

B. Opacity

A continuous monitoring system for measuring the opacity of emissions discharged into the atmosphere from the boiler shall be operated and maintained during all periods of operation of the boiler, except for continuous monitoring system breakdowns and repairs. Operation shall be
in conformance with 40 CFR §60.48b, which includes recording the output of the system. Reporting and recordkeeping requirements shall be in conformance with 40 CFR §60.49b, which shall include filing a quarterly report of excess emissions as outlined therein.

Authority for Requirement:   DNR PSD Permit #98-A-507-P2
                            LCPH ATI 5095 / PTO 5045

C.  Lead (Pb)

Fuel samples shall be analyzed for lead (Pb) and the results submitted in writing to the DNR on a quarterly basis. Fuel sampling shall be conducted as specified under "SO2 Percent Reduction Compliance." Sample analysis for Lead (Pb) shall be performed as specified in SW-846 Method 6010. The quarterly testing results shall be reported as specified under "Operating Limits."

Authority for Requirement:   DNR PSD Permit #98-A-507-P2
                            LCPH ATI 5096 / PTO 5045

NSPS General Requirements:

This boiler is subject to 40 CFR Part 60 Subpart Db, Standards of Performance for Industrial, Commercial, Institutional Steam Generating Units.

The permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. 40 CFR §60.7(b)

The permittee shall submit an excess emissions and monitoring systems performance report to the Department and Administrator in accordance with 40 CFR §60.7(c). The summary report form shall contain the information and format required in 40 CFR §60.7(d).

Notwithstanding the frequency of reporting requirements in the prior permit conditions, the permittee may reduce the frequency of reporting of excess emissions and monitoring system performance reports pursuant to 40 CFR §60.7(e).

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR §60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR §60.12

Authority for Requirement:   567 IAC 23.1(2)

Existing Large Solid Fuel Subcategory:

These emission units are subject to Subpart A - General Provisions (40 CFR §63.1 through 40 CFR §63.15) of the National Emission Standards for Hazardous Air Pollutants (NESHAP) and
Subpart DDDDD - NESHAP for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (40 CFR §63.7480 through 40 CFR §63.7575).

Authority for requirement:  
NESHAP Subpart A  
NESHAP Subpart DDDDD

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

Stack Height, (ft, from the ground): 412.5  
Discharge Style: Vertical, unobstructed  
Stack Opening, (inches, diameter): 144  
Exhaust Temperature (°F): 310  
Exhaust Flow Rate (scfm): 320,400  
Authority for Requirement:  
DNR PSD Permit #98-A-507-P2  
LCPH ATI 5096 / PTO 5045

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:**  
Stack testing is not required at this time.

**Continuous Emissions Monitoring:**

<table>
<thead>
<tr>
<th>Pollutant:</th>
<th>Sulfur Dioxide (SO₂)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous Emissions Monitor ID:</td>
<td>ME-530A</td>
</tr>
<tr>
<td>Operational Specifications:</td>
<td>40 CFR Part 60</td>
</tr>
<tr>
<td>Date of Most Recent System Calibration &amp; Quality Assurance:</td>
<td>May 5, 2016</td>
</tr>
<tr>
<td>Ongoing System Calibration/Quality Assurance:</td>
<td>40 CFR Part 60 Appendix F</td>
</tr>
<tr>
<td>Reporting &amp; Recordkeeping:</td>
<td>40 CFR Part 60 Appendix A and B</td>
</tr>
</tbody>
</table>
| Authority for Requirement:  | DNR PSD Permit #98-A-507-P2  
LCPH ATI 5096 / PTO 5045  
40 CFR §60.47b Subpart Db  
567 IAC 23.1(2)"ccc"  
LCO 10.9(2)"a"(55) |
### Nitrogen Oxides (NOx)

<table>
<thead>
<tr>
<th>Pollutant:</th>
<th>Nitrogen Oxides (NOx)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous Emissions Monitor ID:</td>
<td>ME-530B</td>
</tr>
<tr>
<td>Operational Specifications:</td>
<td>40 CFR Part 60</td>
</tr>
<tr>
<td>Date of Most Recent System Calibration &amp; Quality Assurance:</td>
<td>May 5, 2016</td>
</tr>
<tr>
<td>Ongoing System Calibration/Quality Assurance:</td>
<td>40 CFR Part 60 Appendix F</td>
</tr>
<tr>
<td>Reporting &amp; Recordkeeping:</td>
<td>40 CFR Part 60 Appendix A and B</td>
</tr>
<tr>
<td>Authority for Requirement:</td>
<td>DNR PSD Permit #98-A-507-P2</td>
</tr>
<tr>
<td></td>
<td>LCPH ATI 5096 / PTO 5045</td>
</tr>
<tr>
<td></td>
<td>40 CFR §60.48b Subpart Db</td>
</tr>
<tr>
<td></td>
<td>567 IAC 23.1(2)&quot;ccc&quot;</td>
</tr>
<tr>
<td></td>
<td>LCO 10.9(2)a&quot;(55)</td>
</tr>
</tbody>
</table>

### Opacity

<table>
<thead>
<tr>
<th>Pollutant:</th>
<th>Opacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous Emissions Monitor ID:</td>
<td>ME-530C</td>
</tr>
<tr>
<td>Operational Specifications:</td>
<td>40 CFR §60.13 and 40 CFR §60.45</td>
</tr>
<tr>
<td>Date of Most Recent System Calibration &amp; Quality Assurance:</td>
<td>March 2, 2016</td>
</tr>
<tr>
<td>Ongoing System Calibration/Quality Assurance:</td>
<td>40 CFR Part 60</td>
</tr>
<tr>
<td>Reporting &amp; Recordkeeping:</td>
<td>40 CFR Part 60</td>
</tr>
<tr>
<td>Authority for Requirement:</td>
<td>DNR PSD Permit #98-A-507-P2</td>
</tr>
<tr>
<td></td>
<td>LCPH ATI 5096 / PTO 5045</td>
</tr>
<tr>
<td></td>
<td>40 CFR §60.48b Subpart Db</td>
</tr>
<tr>
<td></td>
<td>567 IAC 23.1(2)&quot;ccc&quot;</td>
</tr>
<tr>
<td></td>
<td>LCO 10.9(2)a&quot;(55)</td>
</tr>
</tbody>
</table>

### Diluent Gas (Oxygen)

<table>
<thead>
<tr>
<th>Pollutant:</th>
<th>Diluent Gas (Oxygen)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous Emissions Monitor ID:</td>
<td>ME-530D</td>
</tr>
<tr>
<td>Operational Specifications:</td>
<td>40 CFR Part 60</td>
</tr>
<tr>
<td>Date of Most Recent System Calibration &amp; Quality Assurance:</td>
<td>May 5, 2016</td>
</tr>
<tr>
<td>Ongoing System Calibration/Quality Assurance:</td>
<td>40 CFR Part 60 Appendix F</td>
</tr>
<tr>
<td>Reporting &amp; Recordkeeping:</td>
<td>40 CFR Part 60 Appendix A and B</td>
</tr>
<tr>
<td>Authority for Requirement:</td>
<td>DNR PSD Permit #98-A-507-P2</td>
</tr>
<tr>
<td></td>
<td>LCPH ATI 5096 / PTO 5045</td>
</tr>
<tr>
<td></td>
<td>40 CFR §60.47b, §60.48b Subpart Db</td>
</tr>
<tr>
<td></td>
<td>567 IAC 23.1(2)&quot;ccc&quot;</td>
</tr>
<tr>
<td></td>
<td>LCO 10.9(2)a&quot;(55)</td>
</tr>
<tr>
<td>Pollutant:</td>
<td>Flow</td>
</tr>
<tr>
<td>-----------</td>
<td>------</td>
</tr>
<tr>
<td>Continuous Emissions Monitor ID:</td>
<td>ME-530E</td>
</tr>
<tr>
<td>Operational Specifications:</td>
<td>40 CFR Part 60</td>
</tr>
<tr>
<td>Date of Most Recent System Calibration &amp; Quality Assurance:</td>
<td>February 24, 2016</td>
</tr>
<tr>
<td>Ongoing System Calibration/Quality Assurance:</td>
<td>40 CFR Part 60 Appendix F</td>
</tr>
<tr>
<td>Reporting &amp; Recordkeeping:</td>
<td>40 CFR Part 60 Appendix B</td>
</tr>
<tr>
<td>Authority for Requirement:</td>
<td>DNR PSD Permit #98-A-507-P2 LCPH ATI 5096 / PTO 5045 40 CFR Part 60 Subpart Db 567 IAC 23.1(2)&quot;ccc&quot; LCO 10.9(2)&quot;a&quot;(55)</td>
</tr>
</tbody>
</table>

**Pollutant:** Diluent Gas (Carbon Dioxide)

| Continuous Emissions Monitor ID: | ME-530F |
| Operational Specifications: | 40 CFR Part 60 |
| Date of Most Recent System Calibration & Quality Assurance: | February 24, 2016 |
| Ongoing System Calibration/Quality Assurance: | 40 CFR Part 60 Appendix F |
| Reporting & Recordkeeping: | 40 CFR Part 60 Appendix A and B |
| Authority for Requirement: | DNR PSD Permit #98-A-507-P2 LCPH ATI 5096 / PTO 5045 40 CFR §60.47b, §60.48b Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(55) |

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 ☐

¹ Compliance Assurance Monitoring is required for PM₁₀ and an agency approved operation and maintenance plan is required for PM; however, as PM and PM₁₀ are controlled by the same equipment, and CAM is more stringent, the agency approved operation and maintenance plan requirement has been waived.

Authority for Requirement: 567 IAC 22.108(3)

Refer to Appendix B, CAM Plans, for the complete compliance assurance monitoring plan.

The SO₂ and NOX potentials to emit trigger Agency-approved operation & maintenance plans; however, existing CEMS at this emission point meet or exceed the Agency-approved operation & maintenance plan requirements for these pollutants.
Emission Point ID Number: SEP-532, SEP-533, SEP-535, SEP-536
Process Area: COGENERATION

Table Co-Gen 60. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
<th>CE ID</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-532</td>
<td>EU-532</td>
<td>Fly Ash Conveying System D</td>
<td>Fly Ash</td>
<td>30 ton/hr</td>
<td>CE-532</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-533</td>
<td>EU-533</td>
<td>Fly Ash Conveying System F</td>
<td>Fly Ash</td>
<td>30 ton/hr</td>
<td>CE-533</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-535</td>
<td>EU-535</td>
<td>Bed Ash Conveying System D</td>
<td>Bed Ash</td>
<td>7 ton/hr</td>
<td>CE-535</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-536</td>
<td>EU-536</td>
<td>Bed Ash Conveying System E</td>
<td>Bed Ash</td>
<td>7 ton/hr</td>
<td>CE-536</td>
<td>Baghouse</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 Co-Gen 61. Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Opacity</th>
<th>PM$_{10}$</th>
<th>Particulate Matter</th>
<th>Permit #</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-532</td>
<td>EU-532</td>
<td>10%</td>
<td>0.01 gr/dscf</td>
<td></td>
<td>DNR PSD Permit #98-A-509-PS1 LCPH ATI 3735 / PTO 4739</td>
</tr>
<tr>
<td>SEP-532</td>
<td>EU-532</td>
<td></td>
<td>0.01 gr/dscf</td>
<td></td>
<td>LCPH ATI 3735 / PTO 4739</td>
</tr>
<tr>
<td>SEP-533</td>
<td>EU-533</td>
<td>10%</td>
<td>0.01 gr/dscf</td>
<td></td>
<td>DNR PSD Permit #98-A-510-PS1 LCPH ATI 3734 / PTO 4738</td>
</tr>
<tr>
<td>SEP-533</td>
<td>EU-533</td>
<td></td>
<td>0.01 gr/dscf</td>
<td></td>
<td>LCPH ATI 3734 / PTO 4738</td>
</tr>
<tr>
<td>SEP-535</td>
<td>EU-535</td>
<td>10%</td>
<td>0.01 gr/dscf</td>
<td></td>
<td>DNR PSD Permit #98-A-512-PS1 LCPH ATI 3732 / PTO 4736</td>
</tr>
<tr>
<td>SEP-535</td>
<td>EU-535</td>
<td></td>
<td>0.01 gr/dscf</td>
<td></td>
<td>LCPH ATI 3732 / PTO 4736</td>
</tr>
<tr>
<td>SEP-536</td>
<td>EU-536</td>
<td>10%</td>
<td>0.01 gr/dscf</td>
<td></td>
<td>DNR PSD Permit #98-A-512-PS1 LCPH ATI 3731 / PTO 4735</td>
</tr>
<tr>
<td>SEP-536</td>
<td>EU-536</td>
<td></td>
<td>0.01 gr/dscf</td>
<td></td>
<td>LCPH ATI 3731 / PTO 4735</td>
</tr>
</tbody>
</table>

Table Co-Gen 62. General Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Pollutant</th>
<th>Emission Limit(s)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-532</td>
<td>EU-532</td>
<td>Opacity</td>
<td>20%</td>
<td>LCO 10.7</td>
</tr>
<tr>
<td>SEP-533</td>
<td>EU-533</td>
<td>PM</td>
<td>0.1 gr/dscf</td>
<td>567 IAC 23.3(2)&quot;a&quot;(2) LCO 10.9(1)&quot;a&quot;</td>
</tr>
<tr>
<td>SEP-535</td>
<td>EU-535</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEP-536</td>
<td>EU-536</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Operational Limits & Requirements

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

Control Device:
A baghouse shall be used to control particulate matter emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement:  LCPH ATI 3735 / PTO 4739
LCPH ATI 3734 / PTO 4738
LCPH ATI 3732 / PTO 4736
LCPH ATI 3731 / PTO 4735

Operating Condition Monitoring and Recordkeeping:
No operating limits are required for this emission point at this time.

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

Table Co-Gen 63.

<table>
<thead>
<tr>
<th>EP</th>
<th>LCPH ATI / PTO Numbers</th>
<th>Stack Characteristics</th>
<th>Stack Height (feet, above ground)</th>
<th>Discharge Style</th>
<th>Stack Opening (inches, dia.)</th>
<th>Exhaust Temp. (°F)</th>
<th>Exhaust Flow Rate (acfm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-532</td>
<td>3735 / 4739</td>
<td></td>
<td>160</td>
<td>Vertical, unobstructed</td>
<td>16</td>
<td>140</td>
<td>5,363</td>
</tr>
<tr>
<td>SEP-533</td>
<td>3734 / 4738</td>
<td></td>
<td>160</td>
<td>Vertical, unobstructed</td>
<td>16</td>
<td>140</td>
<td>5,363</td>
</tr>
<tr>
<td>SEP-535</td>
<td>3732 / 4736</td>
<td></td>
<td>160</td>
<td>Vertical, unobstructed</td>
<td>14</td>
<td>140</td>
<td>3,478</td>
</tr>
<tr>
<td>SEP-536</td>
<td>3731 / 4735</td>
<td></td>
<td>160</td>
<td>Vertical, unobstructed</td>
<td>14</td>
<td>140</td>
<td>3,478</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.

Stack Testing:
The following stack tests shall be performed:

- Pollutant – Particulate Matter (PM10)\(^1\)
  - 1st Stack Test to be Completed by – within first two years of permit term
  - Test Method – Method 201A with 202 (40 CFR Part 51, Appendix M)
  - Authority for Requirement – 567 IAC 22.108(3)

\(^1\) Stack testing for PM10 is required for only one of the Fly Ash Conveying Systems (SEP-532 or SEP-533), and only one of the Bed Ash Conveying Systems (SEP-535 or SEP-536) to be considered representative of emissions and compliance from all four emission points. If the test results for any pollutant are 90% or above of the applicable standard, additional testing will be required of the other emission point of the same type. A test protocol must be approved by the Department's stack testing personnel prior to testing.

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >10% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(3)

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

\(^1\) Compliance Assurance Monitoring is required for PM and a facility maintained operation and maintenance plan is required for PM\(_{10}\); however, because PM and PM\(_{10}\) are controlled by the same equipment, and CAM is more stringent, the facility maintained operation and maintenance plan requirement has been waived.

Authority for Requirement: 567 IAC 22.108(3)

Refer to Appendix B, CAM Plans, for the complete compliance assurance monitoring plan.
Emission Point ID Number: SEP-537  
Process Area: COGENERATION

Table Co-Gen 64. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
<th>CE ID</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-537</td>
<td>EU-537</td>
<td>Coal Bunker</td>
<td>Coal</td>
<td>600 ton/hr</td>
<td>CE-537</td>
<td>Baghouse</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 Co-Gen 65. Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Opacity</th>
<th>PM$_{10}$</th>
<th>Particulate Matter</th>
<th>Permit #</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-537</td>
<td>EU-537</td>
<td>10%</td>
<td>0.01 gr/dscf</td>
<td></td>
<td>DNR PSD Permit #98-A-514-P2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LCPH ATI 5945 / PTO 6055</td>
</tr>
<tr>
<td>SEP-537</td>
<td>EU-537</td>
<td></td>
<td></td>
<td>0.01 gr/dscf</td>
<td>LCPH ATI 5945 / PTO 6055</td>
</tr>
<tr>
<td>SEP-537</td>
<td>EU-537</td>
<td></td>
<td></td>
<td>2.14 lb/hr</td>
<td>LCPH ATI 5945 / PTO 6055</td>
</tr>
</tbody>
</table>

Table Co-Gen 66. General Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Pollutant</th>
<th>Emission Limit(s)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-537</td>
<td>EU-537</td>
<td>Opacity</td>
<td>20%</td>
<td>40 CFR §60.252(c) Subpart Y</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>567 IAC 23.1(2)&quot;v&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LCO 10.9(2)&quot;a&quot;(22)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LCO 10.7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PM</td>
<td>0.1 gr/dscf</td>
<td>567 IAC 23.3(2)&quot;a&quot;(2)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LCO 10.9(1)&quot;a&quot;</td>
</tr>
</tbody>
</table>

Operational Limits & Requirements

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

Control Device:

A baghouse shall be used to control particulate matter emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 5945 / PTO 6055

NSPS and NESHAP Applicability:

This emission unit is subject to 40 CFR Part 60 Subpart Y – Standards of Performance for Coal Preparation Plants.
This emission unit is subject to 40 CFR Part 60 Subpart A – General Provisions.

This emission unit is not subject to National Emission Standards for Hazardous Air Pollutants (NESHAP) at this time.

Authority for Requirement: DNR PSD Permit #98-A-514-P2
LCPH ATI 5945 / PTO 6055

**NSPS Requirements:**
These units are subject to 40 CFR Part 60 NSPS Subpart Y, Standards of Performance for Coal Preparation Plants.

The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. 40 CFR §60.11(c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR §60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR §60.12

Authority for Requirement: 567 IAC 23.1(2)"v"

**Operating Limits:**

A. The pressure drop across the baghouse, CE-537, shall be maintained between 0.5 and 8.0 inches of water.

B. The control equipment shall be maintained according to the manufacturer's specifications and good operating practices.

Authority for Requirement: DNR PSD Permit #98-A-514-P2

**Operating Condition Monitoring and Recordkeeping:**
If not specified elsewhere, 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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. The owner or operator shall monitor and record "no visible emissions" observations on a weekly basis. An exceedance of "no visible emissions" will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.

B. Pressure drop readings across the baghouse, CE-537, shall be recorded on a weekly basis while the control equipment is in operation.
C. Record all maintenance and repairs completed to the control equipment.

Authority for Requirement: DNR PSD Permit #98-A-514-P2

**Emission Point Characteristics**

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

- Stack Height, (ft, from the ground): 195
- Discharge Style: Vertical, unobstructed
- Stack Opening, (diameter, inches): 24
- Exhaust Temperature (°F): 70
- Exhaust Flow Rate (acfm): 25,000

Authority for Requirement: DNR PSD Permit #98-A-514-P2

LCPH ATI 5945 / PTO 6055

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:**

Stack testing is not required at this time.

**Opacity Monitoring:**

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >10 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)
Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source’s compliance with the applicable requirements.

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

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

Authority for Requirement:  567 IAC 22.108(3)
Emission Point ID Number: SEP-542, SEP-543
Process Area: COGENERATION

Table Co-Gen 67. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
<th>CE ID</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-542</td>
<td>EU-542</td>
<td>Cogen Biomass Bin #1</td>
<td>Biomass</td>
<td>16,000 gal/hr</td>
<td>CE-542</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-543</td>
<td>EU-543</td>
<td>Cogen Biomass Bin #2</td>
<td>Biomass</td>
<td>16,000 gal/hr</td>
<td>CE-543</td>
<td>Baghouse</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 Co-Gen 68. Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>PM$_{10}$</th>
<th>Particulate Matter</th>
<th>Permit #</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-542</td>
<td>EU-542</td>
<td>0.21 lb/hr</td>
<td>0.21 lb/hr</td>
<td>LCPH ATI 5332 / PTO 5479</td>
</tr>
<tr>
<td>SEP-543</td>
<td>EU-543</td>
<td>0.21 lb/hr</td>
<td>0.21 lb/hr</td>
<td>LCPH ATI 5333 / PTO 5480</td>
</tr>
</tbody>
</table>

Table Co-Gen 69. General Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Pollutant</th>
<th>Emission Limit(s)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-542</td>
<td>EU-542</td>
<td>Opacity</td>
<td>20%</td>
<td>LCO 10.7</td>
</tr>
<tr>
<td>SEP-543</td>
<td>EU-543</td>
<td>PM</td>
<td>0.1 gr/dscf</td>
<td>567 IAC 23.3(2)&quot;a&quot;(2)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LCO 10.9(1)&quot;a&quot;</td>
</tr>
</tbody>
</table>

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

**Control Device:**
A baghouse shall be installed to control particulate matter emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors, and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained, and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 5332 / PTO 5479
LCPH ATI 5333 / PTO 5480

**Operating Limits:**
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

A. Pressure drop across the baghouse (CE-542, CE-543) shall be maintained between 0.5 inches of water column to 6.0 inches of water column.
B. The control equipment on this unit shall be maintained and operated according to the manufacturer's specifications and good operating practices.

Authority for Requirement: LCPH ATI 5332 / PTO 5479
LCPH ATI 5333 / PTO 5480

Operating Condition Monitoring and Recordkeeping:
Unless not specified elsewhere, 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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.

B. Monitor and record pressure drop across the control equipment (CE-542, CE-543) on a weekly basis while the emission unit is in operation.

C. Monitor and record any maintenance and repair completed on the control equipment.

Authority for Requirement: LCPH ATI 5332 / PTO 5479
LCPH ATI 5333 / PTO 5480

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

Table Co-Gen 70.

<table>
<thead>
<tr>
<th>EP</th>
<th>LCPH ATI / PTO Numbers</th>
<th>Stack Characteristics</th>
<th>Stack Opening (inches, dia.)</th>
<th>Exhaust Temp. (°F)</th>
<th>Exhaust Flow Rate (acfm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-542</td>
<td>5332 / 5479</td>
<td>73 Vertical, unobstructed</td>
<td>6</td>
<td>80</td>
<td>1,200</td>
</tr>
<tr>
<td>SEP-543</td>
<td>5333 / 5480</td>
<td>73 Vertical, unobstructed</td>
<td>6</td>
<td>80</td>
<td>1,200</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.

Stack Testing:
Stack testing is not required at this time.
Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record that reading. Maintain a written record of the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than 8 hours from the observation of visible emissions. If corrective action does not return the observation to 'no visible emissions,' then a Method 9 observation will be required.

If an opacity > 20% is observed, this would be a violation, and corrective action will be taken as soon as possible, but no later than 8 hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for requirement: 567 IAC 22.108(14)

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

1 Facility maintained operation and maintenance plan is required for PM.

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

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

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

Authority for Requirement: 567 IAC 22.108(3)
**Table Co-Gen 71. Associated Equipment.**

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
<th>CE ID</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-544</td>
<td>EU-544</td>
<td>Cogen Limestone Conveying Dust Collector</td>
<td>Limestone</td>
<td>250 ton/hr (each)</td>
<td>CE-544A</td>
<td>Cartridge Filters</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CE-544B</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CE-544C</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CE-544D</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.

**Table Co-Gen 72. Emission Limits.**

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>PM-10</th>
<th>Particulate Matter</th>
<th>Permit #</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-544</td>
<td>EU-544</td>
<td>0.005 gr/dscf</td>
<td>0.005 gr/dscf</td>
<td>LCPH ATI 6284 / PTO 6266</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.17 lb/hr</td>
<td>0.17 lb/hr</td>
<td></td>
</tr>
</tbody>
</table>

**Table Co-Gen 73. General Emission Limits.**

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Pollutant</th>
<th>Emission Limit(s)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-544</td>
<td>EU-544</td>
<td>Opacity</td>
<td>20%</td>
<td>LCO 10.7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PM</td>
<td>0.1 gr/dscf</td>
<td>567 IAC 23.3(2)&quot;a&quot;(2)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LCO 10.9(1)&quot;a&quot;</td>
</tr>
</tbody>
</table>

**Operational Limits & Requirements**

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

**Control Device:**

A cartridge filter shall be used to control particulate matter emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors, and gauges needed to measure the parameters outlined in 'Operating Condition Monitoring and Recordkeeping' shall be installed, maintained, and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 6284 / PTO 6266

**Operating Limits:**

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

A. The pressure drop across each of the cartridge filters (CE-544A, CE-544B, CE-544C, and CE-544D) shall be maintained between 0.25 and 5.0 inches of water.
B. The control equipment shall be maintained according to the manufacturer's specifications and good operating practices.

Authority for Requirement: LCPH ATI 6284 / PTO 6266

**Operating Condition Monitoring and Recordkeeping:**
If not specified elsewhere, 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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.

B. Pressure drop reading across each of the cartridge filters (CE-544A, CE-544B, CE-544C, and CE-544D) shall be recorded on a weekly basis while the control equipment is in operation.

C. Record all maintenance and repair completed to the control equipment.

Authority for Requirement: LCPH ATI 6284 / PTO 6266

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 155  
Discharge Style: Vertical, unobstructed  
Stack Opening, (diameter, inches): 14  
Exhaust Temperature (°F): 68  
Exhaust Flow Rate (acfm): 4,000  
Authority for Requirement: LCPH ATI 6284 / PTO 6266

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:**
Stack testing is not required at this time.

**Opacity Monitoring:**
The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record that reading. Maintain a written record of the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are
observed, corrective action will be taken as soon as possible, but no later than 8 hours from the observation of visible emissions. If corrective action does not return the observation to 'no visible emissions,' then a Method 9 observation will be required.

If an opacity > 20% is observed, this would be a violation, and corrective action will be taken as soon as possible, but no later than 8 hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for requirement: 567 IAC 22.108(14)

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: SEP-009  
Process Area: BULK CHEMICALS

Associated Equipment  
Associated Emission Unit ID Numbers: EU-9  
Emissions Control Equipment ID Number: CE-009  
Emissions Control Equipment Description: Scrubber

Emission Unit vented through this Emission Point: EU-9  
Emission Unit Description: Soda Ash Slur O Lyzer  
Raw Material/Fuel: Soda Ash  
Rated Capacity: 16,250 lb/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): 20%  
Authority for Requirement: LCPH ATI 4448 / PTO 4700  
LCO 10.7

Pollutant: PM$_{10}$  
Emission Limit(s): 0.1 gr/dscf, 0.89 lb/hr, 3.92 tpy  
Authority for Requirement: LCPH ATI 4448 / PTO 4700

Pollutant: Particulate Matter  
Emission Limit(s): 0.1 gr/dscf, 0.89 lb/hr, 3.92 tpy  
Authority for Requirement: LCPH ATI 4448 / PTO 4700  
567 IAC 23.3(2)"a"(2)  
LCO 10.9(1)"a"

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

Control Device:  
A Venturi scrubber shall be used to control particulate emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 4448 / PTO 4700
Operating Limits:
A. Water feed rate to the scrubber shall be maintained at a level not less than 17.4 gpm
B. Maximum capacity: 16,250 lb/hr
Authority for Requirement: LCPH ATI 4448 / PTO 4700

Operating Condition Monitoring and Recordkeeping:
All monitors shall be easily accessible to air pollution personnel. 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 Linn County AQD and other federal or state air pollution regulatory agencies and/or their authorized representatives.

A. A log of operation shall be maintained for the operation of the above-listed unit.
B. Weekly pressure drop readings across scrubber.
C. Weekly recirculation water flow rates (gpm) to the scrubber.
D. Records of all maintenance and repair completed to the control device.
Authority for Requirement: LCPH ATI 4448 / PTO 4700

Emission Point Characteristics
The emission point shall conform to the specifications listed below.
Stack Height, (ft, from the ground): 20
Discharge Style: Vertical
Stack Opening, (inches, diameter): 12
Exhaust Temperature (°F): 130-150
Exhaust Flow Rate (acfm): 1200
Authority for Requirement: LCPH ATI 4448 / PTO 4700

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 is not required at this time.

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.
If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)
**Emission Point ID Number:** SEP-020
**Process Area:** BULK CHEMICALS

**Associated Equipment**
Associated Emission Unit ID Numbers: EU-20
Emissions Control Equipment ID Number: CE-020
Emissions Control Equipment Description: Scrubber

Emission Unit vented through this Emission Point: EU-20
Emission Unit Description: Hydrochloric Acid Storage Vent
Raw Material/Fuel: Hydrochloric Acid
Rated Capacity: 34,000 gal/hr

---

**Applicable Requirements**

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

Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: LCO 10.7

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a"(2)
LCO 10.9(1)"a"

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

**Stack Testing**
Stack testing is not required at this time.
Opacity monitoring is not required at this time.

**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)

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

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

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

Authority for Requirement:  567 IAC 22.108(3)
**Emission Point ID Number:** SEP-033  
**Process Area:** BULK CHEMICALS

Associated Equipment  
Associated Emission Unit ID Numbers: EU-33  
Emissions Control Equipment ID Number: CE-033  
Emissions Control Equipment Description: Baghouse

---

Emission Unit vented through this Emission Point: EU-33  
Emission Unit Description: Bulk Precoat System  
Raw Material/Fuel: Diatomaceous Earth  
Rated Capacity: 33,000 lb/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):** 20%  
  **Authority for Requirement:** LCPH ATI 3981 / PTO 4034  
  LCO 10.7

- **Pollutant:** PM-10  
  **Emission Limit(s):** 0.1 gr/scf, 0.86 lb/hr, 3.75 tpy  
  **Authority for Requirement:** LCPH ATI 3981 / PTO 4034

- **Pollutant:** Particulate Matter  
  **Emission Limit(s):** 0.1 gr/scf, 0.86 lb/hr, 3.75 tpy  
  **Authority for Requirement:** LCPH ATI 3981 / PTO 4034  
  567 IAC 23.3(2)"a"(2)  
  LCO 10.9(1)"a"

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

**Operating Limits:**  
Maximum equipment design rate: 33,000 lb/hr  
Exhaust airflow rate: 1000 scfm  
**Authority for Requirement:** LCPH ATI 3981 / PTO 4034

**Monitoring Requirements:**  
The following information shall be monitored:  
- A. Daily pressure drop readings  
- B. All monitors shall be easily accessible to air pollution personnel.
Authority for Requirement: LCPH ATI 3981 / PTO 4034

**Recordkeeping Requirements:**
A logbook of operation shall be maintained for this source. The following information shall be recorded and kept on-site for a period of no less than five years.

A. Daily pressure drop readings

B. Records of all maintenance and repair completed on the control device

These records shall be available on site for viewing by air pollution control personnel.

Authority for Requirement: LCPH ATI 3981 / PTO 4034

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

**Opacity Monitoring:**
The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: SEP-165
Process Area: BULK CHEMICALS

Associated Equipment
Associated Emission Unit ID Numbers: EU-165

Emission Unit vented through this Emission Point: EU-165
Emission Unit Description: Plate Wash Tanks
Raw Material/Fuel: Water and Rydlyme
Rated Capacity: 1000 gallons

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: LCPH ATI 4283 / PTO 4336
LCO 10.7

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

Operating Limits:
The maximum operating capacity of this device is:

- Tank Capacity: 1000 gallons each
- Exhaust Airflow Rate: 9500 acfm

Authority for Requirement: LCPH ATI 4283 / PTO 4336

Compliance Monitoring:
The following information shall be monitored:

A. Airflow from this source shall not exceed 9500 acfm. Any increase in airflow would be considered a modification and would necessitate a new Authorization to Install permit.

B. The total usage of cleaning solvents that contain VOCs or VHAPs from this source shall not exceed a yearly total of 2000 gallons calculated on a 12-month rolling average. The maximum VOC density (content) of the cleaning material shall not exceed 9 pounds per gallon. Cleaning solvents that do not contain regulated pollutants do not need to be recorded.

Authority for Requirement: LCPH ATI 4283 / PTO 4336

Recordkeeping Requirements:
A log of operation shall be maintained for the facility. The following information shall be recorded and kept on-site for a period of no less than five years.
A. The total usage of cleaning solvents that contain VOCs or VHAPs from this source shall not exceed a yearly total of 2000 gallons calculated on a 12-month rolling average. The maximum VOC density (content) of the cleaning material shall not exceed 9 pounds per gallon. Cleaning solvents that do not contain regulated pollutants do not need to be recorded.

B. MSDSs or other documentation showing the VOC content of the cleaning solvents used must be kept with these records.

C. These records shall be available for viewing by Air Pollution Control personnel upon request.

Authority for Requirement: LCPH ATI 4283 / PTO 4336

**Monitoring Requirements**

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

Stack testing is not required.

Opacity monitoring is not required.

| 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: SEP-240, SEP-242, SEP-243, SEP-244, SEP-245, SEP-246, SEP-247 SEP-248, SEP-249
Process Area: WASTE TREATMENT

Table Waste Treatment-1. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-240</td>
<td>EU-240</td>
<td>Equalization Basin</td>
<td>Wastewater</td>
<td>432,000 gal/hr</td>
</tr>
<tr>
<td>SEP-242</td>
<td>EU-242</td>
<td>West Aeration Basin</td>
<td>Wastewater</td>
<td>241,560 gal/hr</td>
</tr>
<tr>
<td>SEP-243</td>
<td>EU-243</td>
<td>East Aeration Basin</td>
<td>Wastewater</td>
<td>241,560 gal/hr</td>
</tr>
<tr>
<td>SEP-244</td>
<td>EU-244</td>
<td>Biototron #1</td>
<td>Wastewater</td>
<td>63,420 gal/hr</td>
</tr>
<tr>
<td>SEP-245</td>
<td>EU-245</td>
<td>Biototron #2</td>
<td>Wastewater</td>
<td>63,420 gal/hr</td>
</tr>
<tr>
<td>SEP-246</td>
<td>EU-246</td>
<td>Biototron #3</td>
<td>Wastewater</td>
<td>63,420 gal/hr</td>
</tr>
<tr>
<td>SEP-247</td>
<td>EU-247</td>
<td>East Clarifier</td>
<td>Wastewater</td>
<td>114,720 gal/hr</td>
</tr>
<tr>
<td>SEP-248</td>
<td>EU-248</td>
<td>Center Clarifier</td>
<td>Wastewater</td>
<td>114,720 gal/hr</td>
</tr>
<tr>
<td>SEP-249</td>
<td>EU-249</td>
<td>West Clarifier</td>
<td>Wastewater</td>
<td>114,720 gal/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.

Table Waste Treatment-2. Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>VOC</th>
<th>Single HAP</th>
<th>Total HAP</th>
<th>LCPH Permit #</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-240</td>
<td>EU-240</td>
<td>0.339 lb/hr, 1.486 tpy</td>
<td>9.4 tpy</td>
<td>24.4 tpy</td>
<td>ATI 4843 / PTO 5309</td>
</tr>
<tr>
<td>SEP-242</td>
<td>EU-242</td>
<td>2.90 lb/hr</td>
<td>-</td>
<td>-</td>
<td>ATI 5810 / PTO 5968</td>
</tr>
<tr>
<td>SEP-243</td>
<td>EU-243</td>
<td>2.90 lb/hr</td>
<td>-</td>
<td>-</td>
<td>ATI 5811 / PTO 5969</td>
</tr>
<tr>
<td>SEP-244</td>
<td>EU-244</td>
<td>0.184 lb/hr, 0.81 tpy</td>
<td>9.4 tpy</td>
<td>24.4 tpy</td>
<td>ATI 4847 / PTO 5312</td>
</tr>
<tr>
<td>SEP-245</td>
<td>EU-245</td>
<td>0.184 lb/hr, 0.81 tpy</td>
<td>9.4 tpy</td>
<td>24.4 tpy</td>
<td>ATI 4848 / PTO 5313</td>
</tr>
<tr>
<td>SEP-246</td>
<td>EU-246</td>
<td>0.184 lb/hr, 0.81 tpy</td>
<td>9.4 tpy</td>
<td>24.4 tpy</td>
<td>ATI 4849 / PTO 5314</td>
</tr>
<tr>
<td>SEP-247</td>
<td>EU-247</td>
<td>0.151 lb/hr, 0.662 tpy</td>
<td>9.4 tpy</td>
<td>24.4 tpy</td>
<td>ATI 4850 / PTO 5315</td>
</tr>
<tr>
<td>SEP-248</td>
<td>EU-248</td>
<td>0.151 lb/hr, 0.662 tpy</td>
<td>9.4 tpy</td>
<td>24.4 tpy</td>
<td>ATI 4851 / PTO 5316</td>
</tr>
<tr>
<td>SEP-249</td>
<td>EU-249</td>
<td>0.151 lb/hr, 0.662 tpy</td>
<td>9.4 tpy</td>
<td>24.4 tpy</td>
<td>ATI 4852 / PTO 5317</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 of this equipment shall comply with the operational limits and requirements listed below:

A. The equalization basin is limited to a flow rate of 7,200 gpm.

Authority for Requirement: LCPH ATI 4843 / PTO 5309

Operating Condition Monitoring & Recordkeeping:

A. Monitor and record the flow rate to the equalization basin on a weekly basis.
If not specified elsewhere, 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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

Authority for Requirement: LCPH ATI 4843 / PTO 5309

**Emission Point Characteristics**

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

### Table Waste Treatment-3.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>LCPH Permit Numbers</th>
<th>Stack Characteristics</th>
<th>Exhaust Temp. (°F)</th>
<th>Exhaust Flow Rate (acfm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-240</td>
<td>EU-240</td>
<td>ATI 4843 / PTO 5309</td>
<td>Stack Height (feet, above ground) 18 Vertical, unobstructed 60' x 120'</td>
<td>135</td>
<td>650</td>
</tr>
<tr>
<td>SEP-242</td>
<td>EU-242</td>
<td>ATI 5810 / PTO 5968</td>
<td>5 Vertical, unobstructed 3648&quot; x 2580&quot;</td>
<td>95</td>
<td>8500</td>
</tr>
<tr>
<td>SEP-243</td>
<td>EU-243</td>
<td>ATI 5811 / PTO 5969</td>
<td>5 Vertical, unobstructed 3648&quot; x 2580&quot;</td>
<td>95</td>
<td>8500</td>
</tr>
<tr>
<td>SEP-244</td>
<td>EU-244</td>
<td>ATI 4847 / PTO 5312</td>
<td>18 Vertical, unobstructed 92'</td>
<td>95</td>
<td>7600</td>
</tr>
<tr>
<td>SEP-245</td>
<td>EU-245</td>
<td>ATI 4848 / PTO 5313</td>
<td>18 Vertical, unobstructed 92'</td>
<td>95</td>
<td>7600</td>
</tr>
<tr>
<td>SEP-246</td>
<td>EU-246</td>
<td>ATI 4849 / PTO 5314</td>
<td>18 Vertical, unobstructed 92'</td>
<td>95</td>
<td>7600</td>
</tr>
<tr>
<td>SEP-247</td>
<td>EU-247</td>
<td>ATI 4850 / PTO 5315</td>
<td>3 Vertical, unobstructed 66'</td>
<td>80</td>
<td>Undetermined</td>
</tr>
<tr>
<td>SEP-248</td>
<td>EU-248</td>
<td>ATI 4851 / PTO 5316</td>
<td>3 Vertical, unobstructed 66'</td>
<td>80</td>
<td>Undetermined</td>
</tr>
<tr>
<td>SEP-249</td>
<td>EU-249</td>
<td>ATI 4852 / PTO 5317</td>
<td>3 Vertical, unobstructed 66'</td>
<td>80</td>
<td>Undetermined</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.

Stack testing is not required at this time.
Opacity monitoring is not required at this time.

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:  SEP-087, SEP-089  
Process Area:  BIOMASS PROCESSING

Table Biomass-1.  Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-087</td>
<td>EU-87</td>
<td>Biosolids Dryer</td>
<td>Biosolids</td>
<td>4.2 ton/hr</td>
</tr>
<tr>
<td>SEP-089</td>
<td>EU-89</td>
<td>Biosolids Dryer</td>
<td>Biosolids</td>
<td>4.2 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.

Table Biomass-2.  Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>SO₂</th>
<th>Permit #</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-087</td>
<td>EU-87</td>
<td>500 ppmv, 1.83 lb/hr</td>
<td>LCPH ATI 4608 / PTO 5307</td>
</tr>
<tr>
<td>SEP-089</td>
<td>EU-89</td>
<td>500 ppmv, 1.83 lb/hr</td>
<td>LCPH ATI 4619 / PTO 5308</td>
</tr>
</tbody>
</table>

Table Biomass-3.  General Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Pollutant</th>
<th>Emission Limit(s)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-087</td>
<td>EU-087</td>
<td>Opacity</td>
<td>20%</td>
<td>LCO 10.7</td>
</tr>
<tr>
<td>SEP-089</td>
<td>EU-089</td>
<td>PM</td>
<td>0.1 gr/dscf</td>
<td>LCPH ATI 4608 / PTO 5307</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PM/PM₁₀</td>
<td>0.06 lb/hr</td>
<td>LCPH ATI 4619 / PTO 5308</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SO₂</td>
<td>500 ppmv</td>
<td>567 IAC 23.3(3)&quot;e&quot;</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 biomass dryers, emission points 87 and 89, shall vent into the west aeration basin. Prior to exhausting into the aeration basin, emission from the dryer shall be controlled by a spray tower condenser and a liquid ring exhaust blower.

Authority for Requirement:  LCPH ATI 4608 / PTO 5307  
                          LCPH ATI 4619 / PTO 5308
Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Table Biomass-4.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>LCPH Permit Numbers</th>
<th>Stack Characteristics</th>
<th>Stack Height (feet, above ground)</th>
<th>Stack Opening (inches, dia.)</th>
<th>Exhaust Temp. (°F)</th>
<th>Exhaust Flow Rate (acfm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>087</td>
<td>087</td>
<td>ATI 4608 / PTO 5307</td>
<td>Stack discharges at the bottom of the west aeration basin</td>
<td>4</td>
<td>130</td>
<td>368¹</td>
<td></td>
</tr>
<tr>
<td>089</td>
<td>089</td>
<td>ATI 4619 / PTO 5308</td>
<td>Stack discharges at the bottom of the west aeration basin</td>
<td>4</td>
<td>130</td>
<td>368¹</td>
<td></td>
</tr>
</tbody>
</table>

¹ Exhaust flow rate from the dryer into the aeration basin.

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 is not required at this time.

Opacity monitoring is not required at this time.

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: SEP-098, SEP-099, SEP-100
Process Area: BIOMASS PROCESSING

Table Biomass-5. Associated Equipment.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>EU Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity</th>
<th>CE ID</th>
<th>CE Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-098</td>
<td>EU-98</td>
<td>Biosolids Storage Bin #1</td>
<td>Dried Biosolids</td>
<td>1.25 ton/hr</td>
<td>CE-098</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-099</td>
<td>EU-99</td>
<td>Biosolids Storage Bin #2</td>
<td>Dried Biosolids</td>
<td>1.25 ton/hr</td>
<td>CE-099</td>
<td>Baghouse</td>
</tr>
<tr>
<td>SEP-100</td>
<td>EU-100</td>
<td>Biosolids Storage Bin #3</td>
<td>Dried Biosolids</td>
<td>1.25 ton/hr</td>
<td>CE-100</td>
<td>Baghouse</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 Biomass-6. Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Opacity</th>
<th>PM / PM$_{10}$</th>
<th>Permit #</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-098</td>
<td>EU-98</td>
<td>20%</td>
<td>0.02 gr/dscf, 0.17 lb/hr</td>
<td>ATI 4620 / PTO 5013</td>
</tr>
<tr>
<td>SEP-099</td>
<td>EU-99</td>
<td>20%</td>
<td>0.02 gr/dscf, 0.17 lb/hr</td>
<td>ATI 4621 / PTO 5014</td>
</tr>
<tr>
<td>SEP-100</td>
<td>EU-100</td>
<td>20%</td>
<td>0.02 gr/dscf, 0.17 lb/hr</td>
<td>ATI 4622 / PTO 5015</td>
</tr>
</tbody>
</table>

Table Biomass-7. General Emission Limits.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>Pollutant</th>
<th>Emission Limit(s)</th>
<th>Authority for Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-098</td>
<td>EU-98</td>
<td>Opacity</td>
<td>20%</td>
<td>LCO 10.7</td>
</tr>
<tr>
<td>SEP-099</td>
<td>EU-99</td>
<td>PM</td>
<td>0.1 gr/dscf</td>
<td>567 IAC 23.3(2)&quot;a&quot;(2) LCO 10.9(1)&quot;a&quot;</td>
</tr>
<tr>
<td>SEP-100</td>
<td>EU-100</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

Control Device:
A baghouse shall be used to control particulate matter emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 4620 / PTO 5013
LCPH ATI 4621 / PTO 5014
LCPH ATI 4622 / PTO 5015
Operating Condition Monitoring and Recordkeeping:
All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

Monitor and record pressure drop on a weekly basis

Authority for Requirement:   LCPH ATI 4620 / PTO 5013
                           LCPH ATI 4621 / PTO 5014
                           LCPH ATI 4622 / PTO 5015

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

Table Biomass-8.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>LCPH Permit Numbers</th>
<th>Stack Characteristics</th>
<th>Stack Opening (inches, dia.)</th>
<th>Exhaust Temp. (°F)</th>
<th>Exhaust Flow Rate (scfm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-098</td>
<td>EU-98</td>
<td>ATI 4620 / PTO 5013</td>
<td>65</td>
<td>Horizontal</td>
<td>6</td>
<td>130-165</td>
</tr>
<tr>
<td>SEP-099</td>
<td>EU-99</td>
<td>ATI 4621 / PTO 5014</td>
<td>65</td>
<td>Horizontal</td>
<td>6</td>
<td>135</td>
</tr>
<tr>
<td>SEP-100</td>
<td>EU-100</td>
<td>ATI 4622 / PTO 5015</td>
<td>65</td>
<td>Horizontal</td>
<td>6</td>
<td>130-165</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.

Stack testing is not required at this time.

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If
weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)
**Emission Point ID Number:** SEP-101  
**Process Area:** BIOMASS PROCESSING

**Associated Equipment**  
Associated Emission Unit ID Numbers: EU-101  
Emissions Control Equipment ID Number: CE-101  
Emissions Control Equipment Description: Baghouse

---

Emission Unit vented through this Emission Point: EU-101  
Emission Unit Description: Biomass Truck Loadout  
Raw Material/Fuel: Dried Biomass  
Rated Capacity: 20 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): 20%  
  Authority for Requirement: LCPH ATI 4623 / PTO 5086  
  LCO 10.7

- **Pollutant:** PM$_{10}$  
  Emission Limit(s): 0.17 lb/hr  
  Authority for Requirement: LCPH ATI 4623 / PTO 5086

- **Pollutant:** Particulate Matter  
  Emission Limit(s): 0.1 gr/dscf, 0.17 lb/hr  
  Authority for Requirement: LCPH ATI 4623 / PTO 5086

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

**Control Device:**  
A baghouse shall be used to control particulate matter emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 4623 / PTO 5086
**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 25  
Discharge Style: Vertical, unobstructed  
Stack Opening, (inches, dia.): 6 x 6  
Exhaust Temperature (°F): 135  
Exhaust Flow Rate (scfm): 1000

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 is not required at this time.

**Operating Condition Monitoring and Recordkeeping**

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives. The following items shall be recorded:

The owner or operator shall monitor and record “no visible emissions” on a weekly basis.  
Maintenance and repair completed on the control devices.  
Authority for Requirement: LCPH ATI 4623 / PTO 5086

**Opacity Monitoring:**

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)
Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒
Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐
Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

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

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

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

Authority for Requirement: 567 IAC 22.108(3)
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 and Linn County Code of Ordinance (LCO) Chapter 10, paragraph 10.4.

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, 7900 Hickman Rd, Suite #1, Windsor Heights, Iowa 50324, two copies (three if your facility is located in Linn or Polk county) of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. An additional copy must also be sent to 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 Linn County Public Health Air Quality Division. 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 Linn County Public Health Air Quality Division. 567 IAC 22.108 (5)

G6. Annual Fee
1. The permittee is required under subrule 567 IAC 22.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The following forms shall be submitted annually by March 31 documenting actual emissions for the previous calendar year.
   a. Form 1.0 "Facility Identification";
   b. Form 4.0 "Emissions unit-actual operations and emissions" for each emission unit;
   c. Form 5.0 "Title V annual emissions summary/fee"; and
   d. Part 3 "Application certification."
4. The fee shall be submitted annually by July 1. The fee shall be submitted with the following forms:
   a. Form 1.0 "Facility Identification";
   b. Form 5.0 "Title V annual emissions summary/fee";
   c. Part 3 "Application certification."
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1,
forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.

6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.

7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.

8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d".

G7. Inspection of Premises, Records, Equipment, Methods and Discharges
Upon presentation of proper credentials and any other documents as may be required by law, the permittee shall allow the director or the director's authorized representative to:

1. Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
4. Sample or monitor, at reasonable times, substances or parameters for the purpose of ensuring compliance with the permit or other applicable requirements. 567 IAC 22.108 (15)"b" and LCO 10.22

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" and LCO 10.18 and 10.19

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) and LCO 10.14(2)

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) and LCO 10.16(1)

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

G13. Hazardous Release
The permittee must report any situation involving the actual, imminent, or probable release of a
hazardous substance into the atmosphere which, because of the quantity, strength and toxicity of
the substance, creates an immediate or potential danger to the public health, safety or to the
environment. A verbal report shall be made to the department at (515) 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) and LCO 10.14

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) This notification must be made to Linn County Air Quality Division, in lieu of the Department, upon adoption of the NSPS or NESHAP into Chapter 10.

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

1. **Off Permit Changes to a Source.** Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:
   a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.
   b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
   c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
   d. The changes are not subject to any requirement under Title IV of the Act (revisions affecting Title IV permitting are addressed in rules 567—22.140(455B) through 567-22.144(455B));
   e. The changes comply with all applicable requirements.
   f. For each such change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:
      i. A brief description of the change within the permitted facility,
      ii. The date on which the change will occur,
      iii. Any change in emission as a result of that change,
      iv. The pollutants emitted subject to the emissions trade
      v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
      vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
      vii. Any permit term or condition no longer applicable as a result of the change.

  567 IAC 22.110(1)
2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements. 567 IAC 22.110(2)

3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). 567 IAC 22.110(3)

4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. 567 IAC 22.110(4)

5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. 567 IAC 22.108(11)

G18. Duty to Modify a Title V Permit

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

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

v. Are not modifications under any provision of Title I of the Act; and

vi. Are not required to be processed as significant modification under rule 567 - 22.113(455B).

b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:
   i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;
   ii. The permittee's suggested draft permit;
   iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used; and
   iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).

c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against the facility.

3. Significant Title V Permit Modification.
Significant Title V modification procedures shall be used for applications requesting Title V permit modifications that do not qualify as minor Title V modifications or as administrative amendments. These include but are not limited to 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 reissues 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) and LCO 10.5
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 may be allowed by LCO 10.10.

G22. Acid Rain (Title IV) Emissions Allowances
The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated there under. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners and operators of the unit or the designated representative of the owners and operators is prohibited. Exceedances of applicable emission rates are prohibited. “Held” in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. 567 IAC 22.108(7)

G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements
1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
   a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.
   b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.
   c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.
   d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.
2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:
   a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.
   b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.
   c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.
   d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)
   e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.
f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.

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

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

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

G24. Permit Reopenings
1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. 567 IAC 22.108(9)"c"

2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.
   a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;
   b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.
   c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. 567 IAC 22.108(17)"a", 567 IAC 22.108(17)"b"

3. A permit shall be reopened and revised under any of the following circumstances:
   a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;
   b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;
   c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a
remaining term of less than three years, the effective date of the requirement is later
than the date on which the permit is due to expire, or the additional applicable
requirements are implemented in a general permit that is applicable to the source and
the source receives approval for coverage under that general permit. Such a reopening
shall be complete not later than 18 months after promulgation of the applicable
requirement.

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

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

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

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) and LCO 10.27
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
7900 Hickman Road, Suite #1
Windsor Heights, IA 50324
(515) 725-9545

Within Linn County, stack test notifications, reports and correspondence shall also be directed to the supervisor of the county air pollution program.
567 IAC 25.1(7)"a", 567 IAC 25.1(9) and LCO 10.17
**G31. Prevention of Air Pollution Emergency Episodes**
The permittee shall comply with the provisions of 567 IAC Chapter 26 in the prevention of excessive build-up of air contaminants during air pollution episodes, thereby preventing the occurrence of an emergency due to the effects of these contaminants on the health of persons. *567 IAC 26.1(1)*

**G32. Contacts List**
The current address and phone number for reports and notifications to the EPA administrator is:

Chief of Air Permits  
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  
7900 Hickman Road, Suite #1  
Windsor Heights, IA 50324  
(515) 725-9500

Reports or notifications to the local program shall be directed to the supervisor at the appropriate local program. Current address and phone number is:

**Linn County Public Health**  
Air Quality Division  
1240 26th Avenue Ct. SW  
Cedar Rapids, IA 52404  
(319) 892-6000
Appendix A: Agency O&M Plans

ADM Cedar Rapids Plant-Wide Packed Bed/General Wet Scrubber Agency Operation & Maintenance Plan

Monitoring Guidelines
ADM makes a commitment to take timely corrective action during periods of excursions where the indicators are out of range. A corrective action may include an investigation of the reason for the excursion, evaluation of the situation and necessary follow-up action to return operation within the indicator range. An excursion is determined by the averaged discrete data point over a period of time. An excursion does not necessarily indicate a violation of an applicable requirement. If the corrective action measures fail to return the indicators to the appropriate range, the facility will report the exceedance to the department and conduct source testing within 90 days of the exceedance to demonstrate compliance with Applicable Requirements. If the test demonstrates compliance with emission limits then new indicator ranges must be set for monitoring and the new ranges must be incorporated in the operating permit. If the test demonstrates noncompliance with emission limits, then the facility, within 60 days, proposes a schedule to implement corrective action to bring the source into compliance and demonstrate compliance.

Applicable Emission Points

<table>
<thead>
<tr>
<th>Emission Point ID #</th>
<th>Control Equip ID #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>055</td>
<td>CE-055</td>
<td>Packed Bed Scrubber</td>
</tr>
</tbody>
</table>

Monitoring Methods & Corrective Actions

General
- Periodic Monitoring is not required during periods of time greater than one day in which the source does not operate.
- If flow rates or pressure drop levels are occurring outside the normal operating range, investigative/corrective action will start within eight (8) hours of findings.

Weekly
- Check and document the scrubbing liquid circulating and make-up flow as appropriate and pressure drop across the scrubber. If the flow or pressure drop falls out of the recent normal operating range, based upon observed averages and ranges over the past year of operations (or outside a specific permit limit range), corrective action will be started within eight (8) hours of findings to return the operations to normal. The recent normal operating range shall also be documented on each record used for documenting the readings. Changes to these operating ranges shall be documented to include the reason and justification for the change. Conduct observations of the stack and areas adjacent to the stack to determine if excess droplet re-entrainment is occurring from an improperly operating mist eliminator. The signs of droplet re-entrainment may include fallout of solid-containing droplets, discoloration of the stack and adjacent surfaces, or a mud lip around the stack. If excess droplet re-entrainment is occurring, the appropriate measures for remediation will be started with eight (8) hours of findings.
• Maintain a written or electronic record of the inspection and any action resulting from the inspection.

Quarterly
• Conduct a walk-around inspection of the entire system to search for leaks. If leaks in the system are detected, the appropriate measures for remediation will be started within eight (8) hours of findings.
• Maintain a written or electronic record of the inspection and any action resulting from the inspection.

Annually (contingent on accessibility during shutdown period)
• Conduct an internal inspection of the scrubber to search as appropriate for signs of erosion, corrosion, or solids deposits, solids accumulation in mist eliminators, and plugged or eroded spray nozzles. If any of these conditions exist, the appropriate measures for remediation will be started within eight (8) hours of findings.
• Maintain a written or electronic record of the inspection and any action resulting from the inspection.

Recordkeeping
• Maintain a written or electronic record of all inspections and any action resulting from the inspections.
• The facility will keep maintenance and inspection records for five (5) years and will be available upon request.

Quality Control
• The equipment will be operated and maintained according to typical food industry standards and/or as outlined in the above monitoring requirements.
Appendix B: CAM Plans

Compliance Assurance Monitoring Plans for ADM Corn Processing Facility located in Cedar Rapids, Iowa

I. **Background**

A. **Emissions Unit**
   Description: See CAM Table 1 for full listing
   Identification: See CAM Table 1 for full listing
   Facility: ADM Corn Processing
             Cedar Rapids, Iowa

B. **Applicable Regulation, Emission Limit, and Monitoring Requirements**
   Regulation No.: See CAM Table 1 for full listing
   Emission Limit or Standard: See CAM Table 1 for full listing
   Current Monitoring requirements: See CAM Table 1 for full listing

C. **Control Technology**
   See CAM Table 1 for full listing

II. **Monitoring Approach**

A. **Indicator**
   See CAM Table 1 for a full list of monitoring indicators identified by emission point and associated control equipment.

B. **Measurement Approach**
   See CAM Table 1 for individual monitoring frequencies for each of the selected monitoring indicators identified by emission point and associated control equipment.

C. **Indicator Range**
   See CAM Table 1 for the appropriate indicator range(s) for each of the selected monitoring indicators identified by emission point and associated control equipment.

D. **QIP (Quality Improvement Plan) Threshold (Optional)**
   The QIP threshold is six excursions in a six-month reporting period for all emission points and associated control equipment listed in CAM Table 1.

E. **Performance Criteria**
   Data representativeness: Deviations from the normal operating range(s) of the monitoring indicators listed in CAM Table 1 could indicate in the following: decreases in performance efficiency, increases in emissions, and/or the need for maintenance or repair to the associated equipment.
Verification of operational status: Records of monitoring indicator measurements shall be kept for a minimum of five (5) years and shall be available for inspection by the federal, state, and local air pollution regulatory agencies and/or their representatives. Records shall be legible and maintained in an orderly manner.

QA/QC practices and criteria: All monitoring devices shall be calibrated, operated, and maintained according to their manufacturers' specifications.

Monitoring frequency: The facility shall check the monitoring indicators at the frequency identified in CAM Table 1 when the associated emission unit (or units) is in operation. Note that CAM monitoring also meets permit monitoring requirements. For example, there is no need to completely two weekly opacity monitoring observations; one observation shall count for the purpose of meeting permit and CAM requirements.

Data collection procedure: Data shall be collected from sources representative of the emissions of each operating emission unit. Monitoring devices shall be located appropriately to provide representative results and, wherever possible, be readily available for inspection by federal, state, and local air pollution regulatory agencies and/or their representatives.

Averaging period: In all cases, the averaging periods required by this CAM plan are identical to those identified in the emission point-specific entries of the Title V operating permit.

Corrective Action: In all cases, corrective action shall be taken as soon as possible, but no later than eight (8) hours from the observation of the excursion.
## CAM Table 1. Summary of CAM Requirements by Emission Point.

<table>
<thead>
<tr>
<th>EP</th>
<th>EU</th>
<th>CE</th>
<th>Pollutant</th>
<th>Emission Limit(s)</th>
<th>Monitoring Indicator</th>
<th>Indicator Level</th>
<th>Monitoring Frequency</th>
<th>Regulation No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>008</td>
<td>008</td>
<td>008 (Baghouse)</td>
<td>PM</td>
<td>6.05 lb/hr 0.01 gr/dscf 0.1 gr/dscf</td>
<td>ΔP</td>
<td>≥ 1 and ≤ 8 in. W.C.</td>
<td>Daily</td>
<td>LCPH ATI 6051 / PTO 6148R1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>PM</td>
<td>14.4 tpy 6.05 lb/hr</td>
<td>ΔP</td>
<td>≥ 1 and ≤ 8 in. W.C.</td>
<td>Daily</td>
<td></td>
</tr>
<tr>
<td>008B, 008C, 010A, 010B, 023, 040, 048, 049, 086A, 086B</td>
<td></td>
<td>010, 023, 040, 048, 049, 086 (Baghouses)</td>
<td>PM</td>
<td>6.05 lb/hr 0.01 gr/dscf 0.1 gr/dscf</td>
<td>ΔP</td>
<td>≥ 0.2 and ≤ 6 in. W.C.</td>
<td>Daily</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>PM</td>
<td>14.4 tpy 6.05 lb/hr</td>
<td>ΔP</td>
<td>≥ 0.2 and ≤ 6 in. W.C.</td>
<td>Daily</td>
<td></td>
</tr>
<tr>
<td>034</td>
<td>034A, 034B</td>
<td>034B (Zero Hearth)</td>
<td>CO</td>
<td>11.34 lb/hr Average Temp.</td>
<td>≥ 1,440 °F</td>
<td>Daily</td>
<td>LCPH ATI 4664 / PTO 5082</td>
<td></td>
</tr>
<tr>
<td>061</td>
<td>061</td>
<td>061 (Baghouse)</td>
<td>PM</td>
<td>0.1 gr/dscf 0.09 lb/hr</td>
<td>ΔP</td>
<td>≥ 0.25 and ≤ 7 in. W.C.</td>
<td>Daily</td>
<td>LCPH ATI 6210 / PTO 6051</td>
</tr>
<tr>
<td>062</td>
<td>062</td>
<td>062 (Baghouse)</td>
<td>PM</td>
<td>0.1 gr/dscf 0.09 lb/hr</td>
<td>ΔP</td>
<td>≥ 0.25 and ≤ 7 in. W.C.</td>
<td>Daily</td>
<td>LCPH ATI 6211 / PTO 6052</td>
</tr>
<tr>
<td>063</td>
<td>063</td>
<td>063 (Baghouse)</td>
<td>PM</td>
<td>0.1 gr/dscf 0.09 lb/hr</td>
<td>ΔP</td>
<td>≥ 0.25 and ≤ 7 in. W.C.</td>
<td>Daily</td>
<td>LCPH ATI 6212 / PTO 6053</td>
</tr>
<tr>
<td>064</td>
<td>064</td>
<td>064 (Baghouse)</td>
<td>PM</td>
<td>0.1 gr/dscf 0.09 lb/hr</td>
<td>ΔP</td>
<td>≥ 0.25 and ≤ 7 in. W.C.</td>
<td>Daily</td>
<td>LCPH ATI 6213 / PTO 6054</td>
</tr>
<tr>
<td>114</td>
<td>114A, 114B</td>
<td>114B (Zero Hearth)</td>
<td>CO</td>
<td>11.34 lb/hr Average Temp.</td>
<td>≥ 1,440 °F</td>
<td>Daily</td>
<td>LCPH ATI 4665 / PTO 5083</td>
<td></td>
</tr>
<tr>
<td>210</td>
<td>046, 210</td>
<td>210 (Scrubber)</td>
<td>SO₂</td>
<td>6.11 lb/hr 500 ppm, Flow Rate</td>
<td>≥ 240 gpm</td>
<td>Daily</td>
<td>LCPH ATI 5829 / PTO 6337</td>
<td></td>
</tr>
<tr>
<td>EP</td>
<td>EU</td>
<td>CE</td>
<td>Pollutant</td>
<td>Emission Limit(s)</td>
<td>Monitoring Indicator</td>
<td>Indicator Level</td>
<td>Monitoring Frequency</td>
<td>Regulation No.</td>
</tr>
<tr>
<td>-----</td>
<td>-------</td>
<td>------------------</td>
<td>-----------</td>
<td>-------------------</td>
<td>----------------------</td>
<td>-----------------</td>
<td>---------------------</td>
<td>--------------------------------------</td>
</tr>
<tr>
<td>271</td>
<td>271</td>
<td>271 (Baghouse)</td>
<td>PM</td>
<td>0.93 lb/hr</td>
<td>ΔP</td>
<td>≥ 0.5 and ≤ 8.0 in W.C.</td>
<td>Daily</td>
<td>LCPH ATI 6188 / PTO 6529</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.1 gr/scf</td>
<td>Opacity Monitoring</td>
<td>No Visible Emissions</td>
<td>Weekly</td>
<td></td>
</tr>
<tr>
<td>501</td>
<td>501A, 501AN, 501B, 501BN (Baghouses)</td>
<td>PM10</td>
<td>0.03 lb/MMBtu</td>
<td>ΔP</td>
<td>≥ 1 and ≤ 12 in. W.C.</td>
<td>Daily</td>
<td>Iowa DNR PSD Permits #86-A-090-P1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Opacity Monitoring</td>
<td>No Visible Emissions</td>
<td>Weekly</td>
<td>#86-A-091-P1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LCPH ATI 6131 / PTO 6267</td>
</tr>
<tr>
<td>502</td>
<td>502A, 502AN, 502B, 502BN (Baghouses)</td>
<td>PM10</td>
<td>0.03 lb/MMBtu</td>
<td>ΔP</td>
<td>≥ 1 and ≤ 12 in. W.C.</td>
<td>Daily</td>
<td>Iowa DNR PSD Permits #90-A-083-P1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Opacity Monitoring</td>
<td>No Visible Emissions</td>
<td>Weekly</td>
<td>#93-A-324-S1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LCPH ATI 6132 / PTO 6268</td>
</tr>
<tr>
<td>503</td>
<td>503</td>
<td>503 (Bunker Dust Collector)</td>
<td>PM10</td>
<td>2.41 lb/hr 14.4 tpy</td>
<td>ΔP</td>
<td>≥ 0.5 and ≤ 8.0 in W.C.</td>
<td>Daily</td>
<td>LCPH ATI 6163 / PTO 6235</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Opacity Monitoring</td>
<td>No Visible Emissions</td>
<td>Weekly</td>
<td></td>
</tr>
<tr>
<td>505</td>
<td>505</td>
<td>505 (Baghouse)</td>
<td>PM</td>
<td>0.1 gr/dscf 2.18 lb/hr</td>
<td>ΔP</td>
<td>≥ 0.5 and ≤ 8 in W.C.</td>
<td>Daily</td>
<td>LCPH ATI 5802 / PTO 5971</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Opacity Monitoring</td>
<td>No Visible Emissions</td>
<td>Weekly</td>
<td></td>
</tr>
<tr>
<td>514</td>
<td>514</td>
<td>514 (Baghouse)</td>
<td>PM10</td>
<td>1.6 lb/hr 14.4 tpy</td>
<td>ΔP</td>
<td>≥ 0.5 and ≤ 8 in W.C.</td>
<td>Daily</td>
<td>LCPH ATI 6108 / PTO 6236</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Opacity Monitoring</td>
<td>No Visible Emissions</td>
<td>Weekly</td>
<td></td>
</tr>
<tr>
<td>515</td>
<td>515</td>
<td>514 (Baghouse)</td>
<td>PM10</td>
<td>1.6 lb/hr 14.4 tpy</td>
<td>ΔP</td>
<td>≥ 0.5 and ≤ 8 in W.C.</td>
<td>Daily</td>
<td>LCPH ATI 6120 / PTO 6237</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Opacity Monitoring</td>
<td>No Visible Emissions</td>
<td>Weekly</td>
<td></td>
</tr>
<tr>
<td>530</td>
<td>530A, 530AN (Baghouse)</td>
<td>PM10</td>
<td>0.03 lb/MMBtu</td>
<td>ΔP</td>
<td>≥ 1 and ≤ 12 in. W.C.</td>
<td>Daily</td>
<td>Iowa DNR PSD Permit #98-A-507-P2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Opacity Monitoring</td>
<td>No Visible Emissions</td>
<td>Weekly</td>
<td>LCPH ATI 5096 / PTO 5045</td>
</tr>
<tr>
<td>532</td>
<td>532</td>
<td>532 (Baghouse)</td>
<td>PM</td>
<td>0.01 gr/dscf 0.1 gr/dscf</td>
<td>ΔP</td>
<td>≥ 0.5 and ≤ 8 in W.C.</td>
<td>Daily</td>
<td>Iowa DNR PSD Permit #98-A-509-PS1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Opacity Monitoring</td>
<td>No Visible Emissions</td>
<td>Weekly</td>
<td>LCPH ATI 3735 / PTO 4739</td>
</tr>
<tr>
<td>533</td>
<td>533</td>
<td>533 (Baghouse)</td>
<td>PM</td>
<td>0.01 gr/dscf 0.1 gr/dscf</td>
<td>ΔP</td>
<td>≥ 0.5 and ≤ 8 in W.C.</td>
<td>Daily</td>
<td>Iowa DNR PSD Permit #98-A-510-P</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Opacity Monitoring</td>
<td>No Visible Emissions</td>
<td>Weekly</td>
<td>LCPH ATI 3734 / PTO 4738</td>
</tr>
<tr>
<td>EP</td>
<td>EU</td>
<td>CE</td>
<td>Pollutant</td>
<td>Emission Limit(s)</td>
<td>Monitoring Indicator</td>
<td>Indicator Level</td>
<td>Monitoring Frequency</td>
<td>Regulation No.</td>
</tr>
<tr>
<td>-----</td>
<td>-----</td>
<td>------</td>
<td>-----------</td>
<td>-------------------</td>
<td>-------------------------------</td>
<td>-----------------</td>
<td>----------------------</td>
<td>---------------------------------------------------</td>
</tr>
<tr>
<td>535</td>
<td>535</td>
<td>535 (Baghouse)</td>
<td>PM</td>
<td>0.01 gr/dscf&lt;br&gt;0.1 gr/dscf</td>
<td>ΔP ≥ 0.5 and ≤ 8 in. W.C.</td>
<td>Opacity Monitoring</td>
<td>No Visible Emissions</td>
<td>Daily Iowa DNR PSD Permit #98-A-512-PS1&lt;br&gt;LCPH ATI 3732 / PTO 4736</td>
</tr>
<tr>
<td>536</td>
<td>536</td>
<td>536 (Baghouse)</td>
<td>PM</td>
<td>0.01 gr/dscf&lt;br&gt;0.1 gr/dscf</td>
<td>ΔP ≥ 0.5 and ≤ 8 in. W.C.</td>
<td>Opacity Monitoring</td>
<td>No Visible Emissions</td>
<td>Daily Iowa DNR PSD Permit #98-A-513-PS1&lt;br&gt;LCPH ATI 3731 / PTO 4735</td>
</tr>
</tbody>
</table>

Notes:
1 Horizontal Cross-Flow Scrubber
2 Entoleter Scrubber
3 Packed Tower Scrubber
4 Ducon Scrubber
5 Packed Bed Scrubber
6 Dry Combustion Chamber
Appendix C

Applicable Federal Requirements

New Source Performance Standards:

A link to the current final rule can be found below:
http://www.ecfr.gov/cgi-bin/text-idx?SID=3a83c00b45fa1280931cbdb920e6b7a7&mc=true&node=sp40.7.60.a&rgn=div6

40 CFR Part 60 Subpart Db – Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units
A link to the current final rule can be found below:
http://www.ecfr.gov/cgi-bin/text-idx?SID=bdb4c693e33832a619f89d2ab746b580&mc=true&node=sp40.7.60.d_0b&rgn=div6

A link to the current final rule can be found below:
http://www.ecfr.gov/cgi-bin/text-idx?SID=3a83c00b45fa1280931cbdb920e6b7a7&mc=true&node=sp40.7.60.k_0b&rgn=div6

40 CFR Part 60 Subpart Y – Standards of Performance for Coal Preparation and Process Plants
A link to the current final rule can be found below:
http://www.ecfr.gov/cgi-bin/text-idx?SID=3a83c00b45fa1280931cbdb920e6b7a7&mc=true&node=sp40.7.60.y&rgn=div6

40 CFR Part 60 Subpart DD – Standards of Performance for Grain Elevators
A link to the current final rule can be found below:
http://www.ecfr.gov/cgi-bin/text-idx?SID=3a83c00b45fa1280931cbdb920e6b7a7&mc=true&node=sp40.7.60.dd&rgn=div6

A link to the current final rule can be found below:
http://www.ecfr.gov/cgi-bin/text-idx?SID=3a83c00b45fa1280931cbdb920e6b7a7&mc=true&node=sp40.7.60.vv&rgn=div6
40 CFR Part 60 Subpart KKKK – Standards of Performance for Stationary Combustion Turbines
A link to the current final rule can be found below:
http://www.ecfr.gov/cgi-bin/text-idx?SID=3a83c00b45fa1280931cfd920e6b7a7&mc=true&node=sp40.7.60.kkkk&rgn=div6

Note: A list of all promulgated NSPS rules, EPA Region 7 staff contact information (for questions pertaining to the rule), compliance assistance links, and a link to each NSPS can be found below:

National Emissions Standards for Hazardous Air Pollutants:

A link to the current final rule can be found below:
http://www.ecfr.gov/cgi-bin/text-idx?SID=3e18dad5f9fe41048f44d5bead0915c&mc=true&tpl=/ecfrbrowse/Title40/40cfr63_main_02.tpl

A link to the current final rule can be found below:
http://www.ecfr.gov/cgi-bin/text-idx?SID=3e18dad5f9fe41048f44d5bead0915c&mc=true&node=sp40.10.63.q&rgn=div6

A link to the current final rule can be found below:
http://www.ecfr.gov/cgi-bin/text-idx?SID=3e18dad5f9fe41048f44d5bead0915c&mc=true&node=sp40.13.63.ffff&rgn=div6

A link to the current final rule can be found below:
http://www.ecfr.gov/cgi-bin/text-idx?SID=3e18dad5f9fe41048f44d5bead0915c&mc=true&node=sp40.13.63.yyyy&rgn=div6

A link to the current final rule can be found below:
http://www.ecfr.gov/cgi-bin/text-idx?SID=3e18dad5f9fe41048f44d5bead0915c&mc=true&node=sp40.14.63.zzzz&rgn=div6

A link to the current final rule can be found below:

http://www.ecfr.gov/cgi-bin/text-idx?SID=3e18dad53f9fe41048f44d5bead0915c&mc=true&node=sp40.14.63.ddddd&rgn=div6

Note: A list of all promulgated MACT rules, EPA Region 7 staff contact information (for questions pertaining to the rule), compliance assistance links, and a link to each NESHAP can be found below:

https://www.epa.gov/CAA-permitting/maximum-achievable-control-technology-standards-region-7