Iowa Department of Natural Resources
Title V Operating Permit

Name of Permitted Facility: University of Northern Iowa – Main Campus
Facility Location: 1801 West 31st Street, Cedar Falls, IA 50614
Air Quality Operating Permit Number: 02-TV-016R3
Expiration Date: July 8, 2024
Permit Renewal Application Deadline: January 1, 2024

EIQ Number: 92-5628
Facility File Number: 07-02-006

Responsible Official
Name: Brent Maitland
Title: Power Plant Manager
Mailing Address: 1901 West 30th Street, Cedar Falls, IA 50614
Phone #: (319) 273-6393

Permit Contact Person for the Facility
Name: Brent Maitland
Title: Power Plant Manager
Mailing Address: 1901 West 30th Street, Cedar Falls, IA 50614
Phone #: (319) 273-6393

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. Two Title V Permits exist for the University of Northern Iowa (Power Plant and Main Campus). These two permits constitute one stationary source. This is the permit for the Main Campus. The University of Northern Iowa – Power Plant (04-TV-022R2) has a valid Title V permit through June 19, 2023.

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 ................................................................. 4

II. Plant - Wide Conditions .......................................................................................... 8

III. Emission Point Specific Conditions ...................................................................... 11

IV. General Conditions .................................................................................................. 54
   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: Links to NSPS/NESHAP Regulations ....................................................... 68
Abbreviations

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

Pollutants
PM............................particulate matter
PM$_{10}$ ........................particulate matter ten microns or less in diameter
SO$_2$ ..........................sulfur dioxide
NO$_x$ ...........................nitrogen oxides
VOC ...........................volatile organic compound
CO ............................carbon monoxide
HAP............................hazardous air pollutant
I. Facility Description and Equipment List

Facility Name: University of Northern Iowa – Main Campus
Permit Number: 02-TV-016R3

Facility Description: State University (SIC 8221)

<table>
<thead>
<tr>
<th>Emission Point Number</th>
<th>Emission Unit Number</th>
<th>Emission Unit Description</th>
<th>DNR Construction Permit Number</th>
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</thead>
<tbody>
<tr>
<td>EP-070-4</td>
<td>EU-070-SPRAY-1</td>
<td>Spray Booth</td>
<td>00-A-944-S1</td>
</tr>
<tr>
<td>EP-070-5</td>
<td>EU-070-SPRAY-2</td>
<td>Spray Booth</td>
<td>00-A-945-S1</td>
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B. Generators

<table>
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<tr>
<th>Emission Point Number</th>
<th>Emission Unit Number</th>
<th>Emission Unit Description</th>
<th>DNR Construction Permit Number</th>
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</thead>
<tbody>
<tr>
<td>EP-012-1</td>
<td>EU-012-GEN-1</td>
<td>LNGEEG Emergency Generator – 201 bhp</td>
<td>Exempt</td>
</tr>
<tr>
<td>EP-070-1</td>
<td>EU-070-GEN-1</td>
<td>KABEEG Emergency Generator – 40 bhp</td>
<td>Exempt</td>
</tr>
<tr>
<td>EP-175-1</td>
<td>EU-175-GEN-1</td>
<td>WRCEEG01 Emergency Generator – 168 bhp</td>
<td>Exempt</td>
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<tr>
<td>EP-224-1</td>
<td>EU-224-GEN-1</td>
<td>NRNEEG Emergency Generator – 100 bhp</td>
<td>Exempt</td>
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</table>

**Existing Compression Ignition Emergency Engines**

<table>
<thead>
<tr>
<th>Emission Point Number</th>
<th>Emission Unit Number</th>
<th>Emission Unit Description</th>
<th>DNR Construction Permit Number</th>
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</thead>
<tbody>
<tr>
<td>EP-016-1</td>
<td>EU-016-GEN-1</td>
<td>MSHEEG Emergency Generator – 60 bhp</td>
<td>Exempt</td>
</tr>
<tr>
<td>EP-023-1</td>
<td>EU-023-GEN-1</td>
<td>MAUEEG Emergency Generator – 40 bhp</td>
<td>Exempt</td>
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<tr>
<td>EP-031-1</td>
<td>EU-031-GEN-1</td>
<td>ITTEEG Emergency Generator – 162 bhp</td>
<td>Exempt</td>
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<tr>
<td>EP-033-1</td>
<td>EU-033-GEN-1</td>
<td>LIBEEG Emergency Generator – 40 bhp</td>
<td>Exempt</td>
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<tr>
<td>EP-055-1</td>
<td>EU-055-GEN-1</td>
<td>A#2EEG Emergency Generator – 60 bhp</td>
<td>Exempt</td>
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<tr>
<td>EP-068-1</td>
<td>EU-068-GEN-1</td>
<td>SWTEEG Emergency Generator – 44 bhp</td>
<td>Exempt</td>
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<tr>
<td>EP-175-2</td>
<td>EU-175-GEN-2</td>
<td>WRCEEG Emergency Generator – 74 bhp</td>
<td>Exempt</td>
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<tr>
<td>EP-190-1</td>
<td>EU-190-GEN-1</td>
<td>PHPEEG Emergency Generator – 27 bhp</td>
<td>Exempt</td>
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<tr>
<td>EP-201-1</td>
<td>EU-201-GEN-1</td>
<td>LATEEG Emergency Generator – 100 bhp</td>
<td>Exempt</td>
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<tr>
<td>EP-210-1</td>
<td>EU-210-GEN-1</td>
<td>PACEEG Emergency Generator – 201 bhp</td>
<td>Exempt</td>
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<tr>
<td>EP-303-1</td>
<td>EU-303-GEN-1</td>
<td>BRCEEG Emergency Generator – 47 bhp</td>
<td>Exempt</td>
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<tr>
<td>EP-305-1</td>
<td>EU-305-GEN-1</td>
<td>ITCEEG Emergency Generator – 27 bhp</td>
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<tr>
<td>EP-311-1</td>
<td>EU-311-GEN-1</td>
<td>CEEESEG Emergency Generator – 10 bhp</td>
<td>Exempt</td>
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<tr>
<td>EP-312-1</td>
<td>EU-312-GEN-1</td>
<td>BCSEEG Emergency Generator – 25 bhp</td>
<td>Exempt</td>
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## C. Boilers

<table>
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<tr>
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<th>Emission Unit Number</th>
<th>Emission Unit Description</th>
<th>DNR Construction Permit Number</th>
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</thead>
<tbody>
<tr>
<td>EP-115-4</td>
<td>EU-115-BLR-1</td>
<td>NFH Boiler 1 (Natural gas, 3.27 MMBtu/hr)</td>
<td>Exempt</td>
</tr>
<tr>
<td>EP-115-5</td>
<td>EU-115-BLR-2</td>
<td>NFH Boiler 2 (Natural gas, 3.27 MMBtu/hr)</td>
<td>Exempt</td>
</tr>
<tr>
<td>EP-174-2</td>
<td>EU-174-BLR-1</td>
<td>Panther Village Boiler 1 (Natural gas, 1.00 MMBtu/hr)</td>
<td>Exempt</td>
</tr>
<tr>
<td>EP-174-3</td>
<td>EU-174-BLR-2</td>
<td>Panther Village Boiler 2 (Natural gas, 1.00 MMBtu/hr)</td>
<td>Exempt</td>
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<tr>
<td>EP-174-4</td>
<td>EU-174-BLR-3</td>
<td>Panther Village Boiler 3 (Natural gas, 1.25 MMBtu/hr)</td>
<td>Exempt</td>
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<tr>
<td>EP-174-5</td>
<td>EU-174-BLR-4</td>
<td>Panther Village Boiler 4 (Natural gas, 1.25 MMBtu/hr)</td>
<td>Exempt</td>
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## D. Miscellaneous Processes

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<th>Emission Unit Description</th>
<th>DNR Construction Permit Number</th>
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<tbody>
<tr>
<td></td>
<td>EU-070-MIX-1</td>
<td>Mixer</td>
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<td></td>
<td>EU-070-MILL-1</td>
<td>Hammermill</td>
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<tr>
<td>EP-070-3</td>
<td>EU-070-MET-1</td>
<td>Metal Working Equipment</td>
<td>00-A-943</td>
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<tr>
<td>EP-190-3</td>
<td>EU-190-DC-1</td>
<td>Carpenter Shop</td>
<td>00-A-948</td>
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<tr>
<td>EP-190-8</td>
<td>EU-190-AST-2</td>
<td>E85 Storage Tank (5,000 gallons)</td>
<td>14-A-025</td>
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<tr>
<td>EP-190-9</td>
<td>EU-190-AST-1</td>
<td>Diesel Storage Tank (5,000 gallons)</td>
<td>14-A-024</td>
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<tr>
<td>EP-190-10</td>
<td>EU-190-AST-3</td>
<td>Gasoline Storage Tank (10,000 gallons)</td>
<td>14-A-023</td>
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<tr>
<td>EP-305-2</td>
<td>EU-305-DC-1</td>
<td>Green Sand Muller, Blast Machine, Reclaimer</td>
<td>00-A-500-S1</td>
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<tr>
<td>EP-190-4</td>
<td>EU-190-PNT-1</td>
<td>Paint Booth – Physical Plant Paint Shop</td>
<td>00-A-949-S1</td>
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<td>Insignificant Emission Unit Number</td>
<td>Insignificant Emission Unit Description</td>
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<tr>
<td>EU-003-FUR-1</td>
<td>2401 College Furnace (0.08 MMBtu/hr)</td>
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<tr>
<td>EU-003-FUR-2</td>
<td>2401 College Furnace (0.15 MMBtu/hr)</td>
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<tr>
<td>EU-003-WH-1</td>
<td>2401 College Water Heater (0.08 MMBtu/hr, 40 gal.)</td>
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<tr>
<td>EU-009-FUR-1</td>
<td>1012 W. 23rd. St. Furnace 1 (0.075 MMBtu/hr)</td>
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<tr>
<td>EU-009-FUR-2</td>
<td>1012 W. 23rd. St. Furnace 2 (0.05 MMBtu/hr)</td>
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<tr>
<td>EU-035-UH-1 through 12</td>
<td>Botanical Center Unit Heaters 1 through 12 (120,000 Btu/hr each)</td>
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<tr>
<td>EU-115-ERW-1</td>
<td>Price Lab Energy Recovery Wheel (100 Btu/hr)</td>
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<tr>
<td>EU-115-WH-1</td>
<td>Price Lab Water Heater (0.20 MMBtu/hr, 100 gal.)</td>
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<tr>
<td>EU-116-FUR-1</td>
<td>1223 W. 22nd Street Furnace 1 (0.80 MMBtu/hr)</td>
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<tr>
<td>EU-116-FUR-2</td>
<td>1223 W. 22nd Street Furnace 2 (0.40 MMBtu/hr)</td>
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<tr>
<td>EU-160-FUR-1</td>
<td>2637 Hudson Furnace (0.18 MMBtu/hr)</td>
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<tr>
<td>EU-165-FUR-1</td>
<td>Warehouse Furnaces (0.04 MMBtu/hr)</td>
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<tr>
<td>EU-165-FUR-2</td>
<td>Warehouse Furnaces (0.04 MMBtu/hr)</td>
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<tr>
<td>EU-165-FUR-3</td>
<td>Warehouse Furnaces (0.05 MMBtu/hr)</td>
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<td>EU-165N-FUR-1</td>
<td>Native Roadside Offices Furnace (0.05 MMBtu/hr)</td>
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<tr>
<td>EU-165N-FUR-2</td>
<td>Native Roadside Offices Furnace (0.1 MMBtu/hr)</td>
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<td>EU-165N-FUR-3</td>
<td>Native Roadside Offices Furnace (0.075 MMBtu/hr)</td>
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<tr>
<td>EU-165N-FUR-4</td>
<td>Native Roadside Offices Furnace (0.075 MMBtu/hr)</td>
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<td>EU-165N-FUR-5</td>
<td>Native Roadside Offices Furnace (0.075 MMBtu/hr)</td>
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<td>EU-165N-FUR-6</td>
<td>Native Roadside Offices Furnace (0.05 MMBtu/hr)</td>
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<td>EU-165-UH-1 through 9</td>
<td>Warehouse Heaters (0.40 MMBtu/hr)</td>
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<td>EU-171-FUR-1</td>
<td>Greenhouse Furnace (0.04 MMBtu/hr)</td>
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<tr>
<td>EU-171-UH 1 through 12</td>
<td>Greenhouse Heaters 1 – 12 (each 50,000 Btu/hr)</td>
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<tr>
<td>EU-190-RH-1 and 2</td>
<td>Physical Plant Radiant Heaters (each 150,000Btu/hr)</td>
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<td>EU-195-FUR-1 through 4</td>
<td>Museum Furnaces (each 115,000 Btu/hr)</td>
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<tr>
<td>EU-260-FUR-1</td>
<td>8628 University Safety Office Furnace (0.09 MMBtu/hr)</td>
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<tr>
<td>EU-260-WH-1</td>
<td>8628 University Safety Office Water Heater (0.07 MMBtu/hr, 75 gal.)</td>
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<td>EU-312-WH-1</td>
<td>BCS Water Heater (0.20 MMBtu/hr, 100 gal.)</td>
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<td>EU-315-FUR-1</td>
<td>2304 College Furnaces 1 (0.12 MMBtu/hr)</td>
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<td>EU-315-FUR-2</td>
<td>2304 College Furnaces 2 (0.15 MMBtu/hr)</td>
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<td>EU-315-FUR-3</td>
<td>2304 College Furnaces 3 (0.03 MMBtu/hr)</td>
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<td>EU-315-FUR-4</td>
<td>2304 College Furnaces 4 (0.05 MMBtu/hr)</td>
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<td>EU-315-FUR-5</td>
<td>2304 College Furnaces 5 (0.06 MMBtu/hr)</td>
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<tr>
<td>EU-315-FUR-6</td>
<td>2304 College Furnaces 6 (0.08 MMBtu/hr)</td>
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<td>EU-400-BLR-1</td>
<td>Hillside Courts Hot Water Boiler 1 (0.50 MMBtu/hr, 77 gal.)</td>
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<tr>
<td>EU-400-BLR-2</td>
<td>Hillside Courts Hot Water Boiler 2 (0.50 MMBtu/hr, 77 gal.)</td>
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<td>EU-109-AST-1</td>
<td>TOWEEG Generator Fuel Tank - 500 gal</td>
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<td>UF-068-DCR-1</td>
<td>Dust Collector-Recirculating</td>
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<td>UF-171-DC-1</td>
<td>Tallgrass Prairie Dust Collector</td>
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<td>UF-070-DCR-1</td>
<td>Dust Collector-Recirculating</td>
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<td>UF-305-DCR-1</td>
<td>Work Shop Dust Collector-Recirculating Unit</td>
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<td>IF-070-GMIXF-1 through 3</td>
<td>Glaze Mix-PRV61 through PRV63</td>
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<td>EU-068-DYE-1</td>
<td>Dye Booth-Costume Shop</td>
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<td>EU-068-PNT-1</td>
<td>Paint Booth-Costume Shop</td>
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<td>Paint Booth-Costume Shop</td>
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<td>EU-305-PNT-1</td>
<td>Aerosol Paint Booth</td>
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<tr>
<td>EU-070-KILN-5</td>
<td>Wood Kiln - Ceramics Lab</td>
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<td>EU-070-KILN-6</td>
<td>Natural Gas-Fired Kiln - Ceramics Lab (0.487 MMBtu/hr)</td>
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<td>Natural Gas-Fired Kiln - Ceramics Lab (0.487 MMBtu/hr)</td>
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<td>EU-070-KILN-8</td>
<td>Natural Gas-Fired Kiln - Ceramics Lab (1.00 MMBtu/hr)</td>
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<tr>
<td>EU-003-FUR-1</td>
<td>2401 College Furnace (0.08 MMBtu/hr)</td>
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<tr>
<td>EU-003-FUR-2</td>
<td>2401 College Furnace (0.15 MMBtu/hr)</td>
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<tr>
<td>EU-003-WH-1</td>
<td>2401 College Water Heater (0.08 MMBtu/hr, 40 gal.)</td>
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<tr>
<td>EU-009-FUR-1</td>
<td>1012 W. 23rd. St. Furnace 1 (0.075 MMBtu/hr)</td>
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<td>EU-009-FUR-2</td>
<td>1012 W. 23rd. St. Furnace 2 (0.05 MMBtu/hr)</td>
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<tr>
<td>EU-035-UH-1 through 12</td>
<td>Botanical Center Unit Heaters 1 through 12 (120,000 Btu/hr each)</td>
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<tr>
<td>EU-115-ERW-1</td>
<td>Price Lab Energy Recovery Wheel (100 Btu/hr)</td>
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<tr>
<td>EU-115-WH-1</td>
<td>Price Lab Water Heater (0.20 MMBtu/hr, 100 gal.)</td>
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<tr>
<td>EU-116-FUR-1</td>
<td>1223 W. 22nd Street Furnace 1 (0.80 MMBtu/hr)</td>
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<tr>
<td>EU-116-FUR-2</td>
<td>1223 W. 22nd Street Furnace 2 (0.40 MMBtu/hr)</td>
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II. Plant-Wide Conditions

Facility Name: University of Northern Iowa – Main Campus
Permit Number: 02-TV-016R3

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

Permit Duration

The term of this permit is: Five (5) years.
Commencing on: July 9, 2019
Ending on: July 8, 2024

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

Emission Limits

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

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

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

Particulate Matter:
No person shall cause or allow the emission of particulate matter from any source in excess of the emission standards specified in this chapter, except as provided in 567 – Chapter 24. For sources constructed, modified or reconstructed on or after July 21, 1999, the emission of particulate matter from any process shall not exceed an emission standard of 0.1 grain per dry standard cubic foot of exhaust gas, except as provided in 567 – 21.2(455B), 23.1(455B), 23.4(455B) and 567 – Chapter 24.
For sources constructed, modified or reconstructed prior to July 21, 1999, the emission of particulate matter from any process shall not exceed the amount determined from Table I, or amount specified in a permit if based on an emission standard of 0.1 grain per standard cubic foot of exhaust gas or established from standards provided in 23.1(455B) and 23.4(455B).
Authority for Requirement: 567 IAC 23.3(2)"a"

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

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

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

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40 CFR 60 Subpart A Requirements
This facility is an affected source and these General Provisions apply to the facility. The affected
units are EU-058-GEN-1, EU-108-GEN-1, and EU-110-GEN-1, EU-062-GEN-2, EU-024-GEN-
1, EU-030-GEN-2, EU-115-GEN-1, EU-174-GEN-1, and EU-202-GEN-2. Applicable
requirements are incorporated in the Emission Point Specific conditions. See Appendix for a link
to the Standard.

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

40 CFR 60 Subpart III Requirements
Emergency generators EU-058-GEN-1, EU-108-GEN-1, EU-110-GEN-1, and EU-062-GEN-2
are subject to the New Source Performance Standards (NSPS) Subpart III – Standards of
Performance for Stationary Compression Ignition Internal Combustion Engines. Applicable
subpart III requirements are incorporated into this permit. See the Appendix for a link to the
Standard.

Authority for Requirement:  40 CFR 60 Subpart III
                                    567 IAC 23.1(2)"yyy"
40 CFR 60 Subpart JJJJ Requirements
Emergency generators EU-024-GEN-1, EU-030-GEN-2, EU-115-GEN-1, EU-174-GEN-1, and EU-202-GEN-2 are subject to the New Source Performance Standards (NSPS) Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. Applicable subpart JJJJ requirements are incorporated into this permit. See the Appendix for a link to the Standard.
Authority for Requirement: 40 CFR 63 Subpart JJJJ
567 IAC 23.1(2)"zzz"

40 CFR 63 Subpart A Requirements
This facility is an affected source and these General Provisions apply to the facility. The affected units are all emergency generators listed in the equipment list in section B and all boilers listed in the equipment list in section C. Applicable requirements are incorporated in the Emission Point Specific conditions. See Appendix for a link to the Standard.
Authority for Requirements: 40 CFR 63 Subpart A
567 IAC 23.1(4)

40 CFR 63 Subpart ZZZZ Requirements
All emergency generators listed in the equipment list in section B. Generators (pages 4-5) are subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart ZZZZ - Stationary Reciprocating Internal Combustion Engines. The generators are emergency stationary reciprocating internal combustion engines (RICE). Applicable subpart ZZZZ requirements are incorporated into this permit. See the Appendix for a link to the Standard.
Authority for Requirement: 40 CFR 63 Subpart ZZZZ
567 IAC 23.1(4)"cz"

40 CFR 63 Subpart DDDDD Requirements
All boilers listed in the equipment list in section C. Boilers (page 5) are subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart DDDDD - Industrial, Commercial, And Institutional Boilers And Process Heaters. See the Appendix for a link to the Standard.
Authority for Requirement: 40 CFR 63 Subpart DDDDD
567 IAC 23.1(4)"dd"
III. Emission Point-Specific Conditions

Facility Name: University of Northern Iowa – Main Campus
Permit Number: 02-TV-016R3


Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent thru this EP): EU-070-SPRAY-1, EU-070-SPRAY-2
Emissions Control Equipment ID Numbers: CE-070-4, CE-070-5
Emissions Control Equipment Description: Spray Booth Filters

Emission Unit vented through each Emission Point: EU-070-SPRAY-1, EU-070-SPRAY-2
Emission Unit Description: Spray Booths
Raw Material/Fuel: Paint and Solvents
Rated Capacity: 0.85 gal/hr (per emission unit)

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 40% (1)
Authority for Requirements: DNR Construction Permits 00-A-944-S1 and 00-A-945-S1
567 IAC 23.3(2)“d”

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

Pollutant: Particulate Matter (PM) – State
Emission Limit(s): 0.01 gr/scf
Authority for Requirements: DNR Construction Permits 00-A-944-S1 and 00-A-945-S1
567 IAC 23.4(13)

Pollutant: Particulate Matter (PM$_{10}$)
Emission Limit(s): 0.0326 lb/hr
Authority for Requirements: DNR Construction Permits 00-A-944-S1 and 00-A-945-S1
Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

1. Each unit is limited to using 1000 gallons of glazing solution per rolling 12-month period.
2. Each unit is limited to operating one spray gun with a maximum spray capacity of 0.85 gallons per hour.

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

1. For each booth record the amount of glazing solution or paint and solvents used on a monthly basis
2. Record a rolling 12-month total of the glazing solutions or paint and solvent used in each booth.
3. Maintain MSDS of all materials used in the booths.

Authority for Requirements: DNR Construction Permits 00-A-944-S1, 00-A-945-S1

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

Stack Height, (ft, from the ground): 15
Stack Opening, (inches, dia.): 18
Exhaust Flow Rate (scfm): 1,900
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical Obstructed

Authority for Requirements: DNR Construction Permits 00-A-944-S1, 00-A-945-S1

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

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

Agency Approved Operation & Maintenance Plan Required? Yes ☒ No ☐
Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒
Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒
Authority for Requirement: 567 IAC 22.108(3)

Spray Booth Filter Agency Operation & Maintenance Plan

Weekly
- Inspect the spray booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material.
- Maintain a written record of the observation and any action resulting from the inspection.

Recordkeeping and Reporting
- Maintenance and inspection records will be kept for five years and available upon request.

Quality Control
- The filter equipment will be operated and maintained according to the manufacturers' recommendations.

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: See Table: Existing Compression Ignition Engines

Associated Equipment

Table: Existing Compression Ignition Engines (1)(2)

<table>
<thead>
<tr>
<th>Emission Point Number</th>
<th>Associated Emission Unit Number</th>
<th>Emission Unit Description</th>
<th>Raw Material</th>
<th>Rated Capacity (bhp)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-012-1</td>
<td>EU-012-GEN-1</td>
<td>LNGEEG</td>
<td>Diesel Fuel</td>
<td>201</td>
</tr>
<tr>
<td>EP-070-1</td>
<td>EU-070-GEN-1</td>
<td>KABEEG</td>
<td>Diesel Fuel</td>
<td>40</td>
</tr>
<tr>
<td>EP-109-3</td>
<td>EU-109-GEN-3</td>
<td>TOWEEG</td>
<td>Diesel Fuel</td>
<td>308</td>
</tr>
<tr>
<td>EP-175-1</td>
<td>EU-175-GEN-1</td>
<td>WRCEEG01</td>
<td>Diesel Fuel</td>
<td>168</td>
</tr>
<tr>
<td>EP-224-1</td>
<td>EU-224-GEN-1</td>
<td>NRNEEG</td>
<td>Diesel Fuel</td>
<td>101</td>
</tr>
</tbody>
</table>

(1) All engines listed are emergency generators.
(2) All engines listed are exempt from construction permitting since the rated capacity is less than 400 bhp.

**Applicable Requirements**

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

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

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO2)
Emission Limit(s): 2.5 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(3)"b"(2)

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

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

1. 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

NESHAP:
These emergency engines are 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) these compression ignition emergency engines, located at a major source, are existing stationary RICE as they were constructed prior to June 12, 2006.

The following requirements are applicable to each emergency engine listed in this section:

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

Operation and Maintenance Requirements 40 CFR 63.6602, 63.6625, 63.6640 and Tables 2c and 6 to Subpart ZZZZ
1. Change oil and filter every 500 hours of operation or annually, whichever comes first. (See 63.6625(i) for the oil analysis option to extend time frame of requirements.)
2. Inspect air cleaner every 1000 hours of operation or annually, whichever comes first, and replace as necessary.
3. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
4. Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
5. Install a non-resettable hour meter if one is not already installed.
6. Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

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

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

**Notification and Reporting Requirements 40 CFR 63.6645, 63.6650 and Table 2c to Subpart ZZZZ**
1. An initial notification is not required per 40 CFR 63.6645(a)(5).
2. A report may be required for failure to perform the work practice requirements on the schedule required in Table 2c. (See Footnote 1 of Table 2c for more information.)

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

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

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

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: See Table: Existing Spark Ignition Engines

Associated Equipment

**Table: Existing Spark Ignition Engines** *(1) (2) (3)*

<table>
<thead>
<tr>
<th>Emission Point Number</th>
<th>Associated Emission Unit Number</th>
<th>Emission Unit Description</th>
<th>Rated Capacity (bhp)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-016-1</td>
<td>EU-016-GEN-1</td>
<td>MSHEEG</td>
<td>60</td>
</tr>
<tr>
<td>EP-023-1</td>
<td>EU-023-GEN-1</td>
<td>MAUEEG</td>
<td>40</td>
</tr>
<tr>
<td>EP-031-1</td>
<td>EU-031-GEN-1</td>
<td>ITTEEG</td>
<td>162</td>
</tr>
<tr>
<td>EP-033-1</td>
<td>EU-033-GEN-1</td>
<td>LIBEEG</td>
<td>40</td>
</tr>
<tr>
<td>EP-055-1</td>
<td>EU-055-GEN-1</td>
<td>A#2EEG</td>
<td>60</td>
</tr>
<tr>
<td>EP-068-1</td>
<td>EU-068-GEN-1</td>
<td>SWTEEG</td>
<td>44</td>
</tr>
<tr>
<td>EP-175-2</td>
<td>EU-175-GEN-2</td>
<td>WRCEEG</td>
<td>74</td>
</tr>
<tr>
<td>EP-190-1</td>
<td>EU-190-GEN-1</td>
<td>PHPEEG</td>
<td>27</td>
</tr>
<tr>
<td>EP-201-1</td>
<td>EU-201-GEN-1</td>
<td>LATEEG</td>
<td>101</td>
</tr>
<tr>
<td>EP-210-1</td>
<td>EU-210-GEN-1</td>
<td>PACEEG</td>
<td>201</td>
</tr>
<tr>
<td>EP-303-1</td>
<td>EU-303-GEN-1</td>
<td>BRCEEG</td>
<td>47</td>
</tr>
<tr>
<td>EP-305-1</td>
<td>EU-305-GEN-1</td>
<td>ITCEEG</td>
<td>27</td>
</tr>
<tr>
<td>EP-311-1</td>
<td>EU-311-GEN-1</td>
<td>CEEEEG</td>
<td>10</td>
</tr>
<tr>
<td>EP-312-1</td>
<td>EU-312-GEN-1</td>
<td>BCSEEG</td>
<td>25</td>
</tr>
</tbody>
</table>

*(1) All engines listed are emergency generators.*

*(2) All engines listed are fueled by natural gas.*

*(3) All engines listed are exempt from construction permitting since the rated capacity is less than 400 bhp.*

**Applicable Requirements**

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

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

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

Pollutant: Particulate Matter  
Emission Limit(s): 0.1 gr/dscf  
Authority for Requirement:  567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO2)  
Emission Limit(s): 500 ppmv  
Authority for Requirement:  567 IAC 23.3(3)"e"
Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NSPS and NESHAP Applicability

NESHAP:
These emergency engines are 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) these spark ignition emergency engines, located at a major source, are existing stationary RICE as they were constructed prior to June 12, 2006.

The following requirements are applicable to each emergency engine listed in this section:

Compliance Date
Per 63.6595(a)(1) you must comply with the provisions of subpart ZZZZ that are applicable by October 19, 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(j) for the oil analysis option to extend time frame of requirements.)
2. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first, and replace as necessary.
3. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
4. Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
5. Install a non-resettable hour meter if one is not already installed.
6. Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

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

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

Notification and Reporting Requirements 40 CFR 63.6645, 63.6650 and Table 2c to Subpart ZZZZ
1. An initial notification is not required per 40 CFR 63.6645(a)(5).
2. A report may be required for failure to perform the work practice requirements on the schedule required in Table 2c. (See Footnote 1 of Table 2c for more information.)

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

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

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

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: EP-058-1

Associated Equipment

Associated Emission Unit ID Number: EU-058-GEN-1

<table>
<thead>
<tr>
<th>Emission Point Number</th>
<th>Associated Emission Unit Number</th>
<th>Emission Unit Description</th>
<th>Raw Material</th>
<th>Rated Capacity (bhp)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-058-1</td>
<td>EU-058-GEN-1</td>
<td>Emergency Generator (New Emergency CI, &gt;500 bhp)</td>
<td>Diesel Fuel</td>
<td>635</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): 40 %

Authority for Requirement: DNR Construction Permit 08-A-543

567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM\textsubscript{10})

Emission Limit(s): 0.76 lb/hr

Authority for Requirement: DNR Construction Permit 08-A-543

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.76 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 08-A-543

567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO\textsubscript{2})

Emission Limit(s): 2.5 lb/MMBtu

Authority for Requirement: DNR Construction Permit 08-A-543

567 IAC 23.3(3)"b"

Pollutant: Nitrogen Oxides (NO\textsubscript{x})

Emission Limit(s): 17.48 lb/hr

Authority for Requirement: DNR Construction Permit 08-A-543
Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 3.72 lb/hr
Authority for Requirement:  DNR Construction Permit 08-A-543

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

Operating Limits

A. Per 40 CFR§60.4211, for the Emergency Generator EU-058-GEN-1, the owner or operator must purchase an engine certified to the emissions standards in §60.4205(b) for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer’s specifications.

B. The owner or operator of the Emergency Generator EU-058-GEN-1 must operate and maintain the generator according to the manufacture’s written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine. In addition, the owner or operator may only change those settings that are permitted by the manufacturer.

C. The owner or operator shall only operate the Emergency Generator EU-058-GEN-1 in emergency situations or for routine maintenance and testing.

D. Emergency Generator EU-058-GEN-1 shall not operate more than 500 hours per rolling twelve-month period. In addition, the facility shall comply with the requirements of 40 CFR§60.4211(e).

E. The Emergency Generator EU-058-GEN-1 shall be limited to using #2 diesel fuel with a maximum sulfur content of 0.0015% by weight.

F. Beginning October 1, 2007, diesel fuel fired in Emergency Generator EU-058-GEN-1 shall be limited to a maximum sulfur content of 500 ppm and a minimum centane index of 40 or a maximum aromatic content of 35 percent by volume, per 40 CFR§80.510(a).

G. Beginning October 1, 2010, diesel fuel fired in Emergency Generator EU-058-GEN-1 shall be limited to a maximum sulfur content of 15 ppm and a minimum centane index of 40 or a maximum aromatic content of 35 percent by volume, per 40 CFR§80.510(b).

H. Per 40 CFR§60.4207, owners and operators of pre-2011 model year diesel generators subject to NSPS Subpart IIII may petition the Administrator for approval to use remaining non-compliant fuel that does not meet the fuel requirements of 40 CFR§80.510(a) or CFR§80.510(b) beyond the dates required, for the purpose of using up existing fuel inventories. If approved, the petition will be valid for a period of up to 6 months. If additional time is needed, the owner or operator is required to submit a new petition to the Administrator.

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

A. The owner or operator of Emergency Generator EU-058-GEN-1 shall install a non-resettable hour meter prior to startup of the engine per 40 CFR §60.4209.

B. Each month, the owner or operator shall record the total hours of operation for Emergency
Generator EU-058-GEN-1, and calculate and record rolling twelve-month totals.
C. The owner or operator shall maintain records of the sulfur content of the fuel oil combusted in Emergency Generator EU-058-GEN-1.
D. The owner or operator Emergency Generator EU-058-GEN-1 shall follow the notification, reporting, and recordkeeping requirements of 40 CFR §60.4214(b).

Authority for Requirement: DNR Construction Permit 08-A-543

NSPS and NESHAP Applicability

NESHAP:
The emergency engine is subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590(a)(2)(i) this emergency engine, located at a major source, is a new stationary RICE as it was constructed on or after December 19, 2002.

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

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

NSPS:

NSPS Subpart IIII Requirements

For 2007 and later model year emergency (Except FP) CI engines with Disp. < 30 l/cyl constructed after 7/11/2005 and manufactured after 4/1/2006:

Emission Standards (for engines with displacement (L/cyl) < 10):
According to 40 CFR 60.4205(b) and 4202, you must comply with the following emission standards in grams/kW-hr (grams/HP-hr):

<table>
<thead>
<tr>
<th>Engine Displacement (l/cyl)</th>
<th>Maximum Engine Power</th>
<th>Model Year(s)</th>
<th>NMHC + NOx</th>
<th>CO</th>
<th>PM</th>
<th>Opacity</th>
<th>Rule Ref</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disp. &lt; 10</td>
<td>450 ≤ kW &lt; 560</td>
<td>2007+</td>
<td>4.0 (3.0)</td>
<td>3.5</td>
<td>0.20</td>
<td>(1)</td>
<td>(2)</td>
</tr>
<tr>
<td>(604 ≤ HP &lt; 751)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(1) Exhaust opacity must not exceed: 20 percent during the acceleration mode; 15 percent during the lugging mode; and 50 percent during the peaks in either the acceleration or lugging modes.
(2) 40 CFR 89.112 and 40 CFR 89.113.
Fuel Requirements:
You must use diesel fuel that has a maximum sulfur content of 15 ppm (0.0015%) by weight and a minimum cetane index of 40 or a maximum aromatic content of 35 percent by volume. 40 CFR 60.4207 and 40 CFR 80.510(b).

Compliance Requirements:
1. You must operate and maintain the engine to comply with the required emission standards over the entire life of the engine (40 CFR 60.4206) by doing all of the following (40 CFR 60.4211(a)).
   a) Operating and maintaining the engine and control device according to the manufacturer's emission-related written instructions;
   b) Changing only those emission-related settings that are permitted by the manufacturer; and
   c) Meeting the requirements of 40 CFR 89, 94 and/or 1068, as they apply to you.
2. You must demonstrate compliance with the applicable emission standards by purchasing an engine certified to the applicable emission standards. The engine must be installed and configured according to the manufacturer's emission-related specifications. 40 CFR 60.4211(c).
3. If you do not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, you must keep a maintenance plan and records of conducted maintenance to demonstrate compliance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct the following performance testing in accordance with 40 CFR 60.4212 to demonstrate compliance with applicable emission standards. You are required to notify the DNR 30 days prior to the test date and are required to submit a stack test report to the DNR within 60 days after the completion of the testing. See 40 CFR 60.4211(g) for additional information.

<table>
<thead>
<tr>
<th>Maximum Engine Power</th>
<th>Initial Test</th>
<th>Subsequent Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 &lt; HP</td>
<td>Within 1 year of engine startup,</td>
<td>Every 8,760 hours or 3 years,</td>
</tr>
<tr>
<td></td>
<td>or non-permitted action(^{(1)})</td>
<td>whichever comes first</td>
</tr>
</tbody>
</table>

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

Operating and Recordkeeping Requirements
1. If your emergency engine does not meet the standards applicable to non-emergency engines, you must install a non-resettable hour meter prior to startup of the engine (40 CFR 40.4209(a)).
2. There is no time limit on the use of the emergency engine in emergency situations. 40 CFR 60.4211(f)(1).
3. The engine may be operated for the purpose of maintenance checks and readiness testing for a maximum of 100 hours/year. See 40 CFR 60.4211(f)(2) for more information.

4. The engine may be operated for up to 50 hours per year for non-emergency purposes. This operating time cannot be used for peak shaving or to generate income for the facility (e.g. supplying power to the grid) and should be included in the total of 100 hours allowed for maintenance checks and readiness testing. See 40 CFR 60.4211(f)(3) for more information.

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

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

<table>
<thead>
<tr>
<th>Emission Point Number</th>
<th>Associated Emission Unit Number</th>
<th>Construction Permit No.</th>
<th>Height (feet)</th>
<th>Diameter (inches)</th>
<th>Exhaust Flowrate (acfm)</th>
<th>Exhaust Temp. (°F)</th>
<th>Discharge Style</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-058-1</td>
<td>EU-058-GEN-1</td>
<td>08-A-543</td>
<td>16.5</td>
<td>8</td>
<td>3,575</td>
<td>1,025</td>
<td>Vertical Unobstructed</td>
</tr>
</tbody>
</table>

Authority for Requirement: DNR Construction Permit 08-A-543

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

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

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

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: EP-180-1

Associated Equipment

Associated Emission Unit ID Numbers: EP-180-GEN-1

<table>
<thead>
<tr>
<th>Emission Point Number</th>
<th>Associated Emission Unit Number</th>
<th>Emission Unit Description</th>
<th>Raw Material/Fuel</th>
<th>Rated Capacity (bhp)</th>
</tr>
</thead>
</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.*

Pollutant: Opacity

Emission Limit(s): 40 %

Authority for Requirement: DNR Construction Permit 07-A-090

567 IAC 23.3(2)"d"

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

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

Emission Limit(s): 0.72 lb/hr

Authority for Requirement: DNR Construction Permit 07-A-090

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.72 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 07-A-090

567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO$_2$)

Emission Limit(s): 0.27 lb/hr; 2.5 lb/MMBtu

Authority for Requirement: DNR Construction Permit 07-A-090

567 IAC 23.3(3)"b"

Pollutant: Nitrogen Oxides (NO$_x$)

Emission Limit(s): 16.4 lb/hr

Authority for Requirement: DNR Construction Permit 07-A-090
Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Limits
1. The sulfur content of the fuel oil consumed in this unit shall not exceed 0.05% by weight.
2. This unit shall not operate more than 2000 hours per twelve (12) month period, rolled monthly.

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

1. For each fuel shipment received, maintain a copy of the vendor's fuel certification or other documentation showing the sulfur content of the fuel delivered.
2. For each use of this engine record the date it was run, the reason it ran, and the duration of the operation.
3. At the end of each month, record the number of hours this unit operated over the previous month.
4. At the end of each month, record the total number of hours this unit operated over the previous twelve (12) months.

Authority for Requirement: DNR Construction Permit 07-A-090

NSPS and NESHAP Applicability

NESHAP:
The emergency engine is subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590(a)(2)(i) this emergency engine, located at a major source, is a new stationary RICE as it was constructed on or after December 19, 2002.

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

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ
567 IAC 23.1(4)"cz"
**Emission Point Characteristics**

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

<table>
<thead>
<tr>
<th>Emission Point Number</th>
<th>Associated Emission Unit Number</th>
<th>Construction Permit No.</th>
<th>Height (feet)</th>
<th>Diameter (inches)</th>
<th>Exhaust Flowrate (scfm)</th>
<th>Exhaust Temp. (°F)</th>
<th>Discharge Style</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-180-1</td>
<td>EU-180-GEN-1</td>
<td>07-A-090</td>
<td>8</td>
<td>8</td>
<td>1,450</td>
<td>1,030</td>
<td>Vertical Unobstructed</td>
</tr>
</tbody>
</table>

Authority for Requirement: DNR Construction Permit 07-A-090

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

**Monitoring Requirements**

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

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

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: See Table: New Emergency Compression Ignition, <500 HP

Associated Equipment

Table: New Emergency Compression Ignition, <500 HP (1)(2)

<table>
<thead>
<tr>
<th>Emission Point Number</th>
<th>Associated Emission Unit Number</th>
<th>Emission Unit Description</th>
<th>Raw Material</th>
<th>Rated Capacity (bhp)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-110-1</td>
<td>EU-110-GEN-1</td>
<td>BENEEG01</td>
<td>Diesel Fuel</td>
<td>134</td>
</tr>
<tr>
<td>EP-062-2</td>
<td>EU-062-GEN-2</td>
<td>SECEE001</td>
<td>Diesel Fuel</td>
<td>320</td>
</tr>
</tbody>
</table>

(1) All engines listed are emergency generators.
(2) All engines listed are exempt from construction permitting since the rated capacity is less than 400 bhp.

Applicable Requirements

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

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

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

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO₂)
Emission Limit(s): 2.5 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(3)"b"(2)

Operational Limits & Requirements

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

Operating Limits

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

1. 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

NESHAP:
These emergency engines are 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) these compression ignition emergency engines, located at a major source, are new stationary RICE as they were constructed on or after June 12, 2006.

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

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

NSPS:

NSPS Subpart IIII Requirements

For 2007 and later model year emergency (Except FP) CI engines with Disp. < 30 l/cyl constructed after 7/11/2005 and manufactured after 4/1/2006:

Emission Standards (for engines with displacement (L/cyl) < 10):
According to 40 CFR 60.4205(b) and 4202, you must comply with the following emission standards in grams/kW-hr (grams/HP-hr):

<table>
<thead>
<tr>
<th>Engine Displacement (l/cyl)</th>
<th>Maximum Engine Power</th>
<th>Model Year(s)</th>
<th>NMHC + NOx</th>
<th>CO</th>
<th>PM</th>
<th>Opacity</th>
<th>Rule Ref</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disp. &lt; 10</td>
<td>75 ≤ kW &lt; 130</td>
<td>2007+</td>
<td>4.0</td>
<td>5.0 (3.7)</td>
<td>0.30 (0.22)</td>
<td>(1)</td>
<td>(2)</td>
</tr>
<tr>
<td></td>
<td>(100 ≤ HP &lt; 175)</td>
<td></td>
<td>(3.0)</td>
<td>3.5 (2.6)</td>
<td>0.20 (0.15)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>225 ≤ kW &lt; 450</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(302 ≤ HP &lt; 604)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(1) Exhaust opacity must not exceed: 20 percent during the acceleration mode; 15 percent during the lugging mode; and 50 percent during the peaks in either the acceleration or lugging modes.
Fuel Requirements:
You must use diesel fuel that has a maximum sulfur content of 15 ppm (0.0015%) by weight and a minimum cetane index of 40 or a maximum aromatic content of 35 percent by volume. 40 CFR 60.4207 and 40 CFR 80.510(b).

Compliance Requirements:
1. You must operate and maintain the engine to comply with the required emission standards over the entire life of the engine (40 CFR 60.4206) by doing all of the following (40 CFR 60.4211(a)).
   a) Operating and maintaining the engine and control device according to the manufacturer's emission-related written instructions;
   b) Changing only those emission-related settings that are permitted by the manufacturer; and
   c) Meeting the requirements of 40 CFR 89, 94 and/or 1068, as they apply to you.
2. You must demonstrate compliance with the applicable emission standards by purchasing an engine certified to the applicable emission standards. The engine must be installed and configured according to the manufacturer's emission-related specifications. 40 CFR 60.4211(c).
3. If you do not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, you must keep a maintenance plan and records of conducted maintenance to demonstrate compliance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct the following performance testing in accordance with 40 CFR 60.4212 to demonstrate compliance with applicable emission standards. You are required to notify the DNR 30 days prior to the test date and are required to submit a stack test report to the DNR within 60 days after the completion of the testing. See 40 CFR 60.4211(g) for additional information.

<table>
<thead>
<tr>
<th>Maximum Engine Power</th>
<th>Initial Test</th>
<th>Subsequent Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 ≤ HP ≤ 500</td>
<td>Within 1 year of engine startup, or non-permitted action (1)</td>
<td>Not required</td>
</tr>
</tbody>
</table>

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

Operating and Recordkeeping Requirements
1. If your emergency engine does not meet the standards applicable to non-emergency engines, you must install a non-resettable hour meter prior to startup of the engine (40 CFR 40.4209(a)) and, starting with the model years in the following table, you must keep records of the operation of the engine in emergency and non-emergency service that are recorded...
through the non-resettable hour meter. The owner must record the time of operation of the engine and the reason the engine was in operation during that time. 40 CFR 40.4214(b).

<table>
<thead>
<tr>
<th>Engine power</th>
<th>Starting model year</th>
</tr>
</thead>
<tbody>
<tr>
<td>130 ≤ KW (175 ≤ HP)</td>
<td>2011</td>
</tr>
</tbody>
</table>

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

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: See Table: New Emergency Spark Ignition, <500 HP

Associated Equipment

Table: New Emergency Spark Ignition, <500 HP

<table>
<thead>
<tr>
<th>Emission Point Number</th>
<th>Associated Emission Unit Number</th>
<th>Emission Unit Description</th>
<th>Raw Material</th>
<th>Rated Capacity (bhp)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-024-1</td>
<td>EU-024-GEN-1</td>
<td>SABEEG</td>
<td>Natural Gas</td>
<td>134</td>
</tr>
<tr>
<td>EP-030-3</td>
<td>EU-030-GEN-2</td>
<td>BAREEG</td>
<td>Natural Gas</td>
<td>174</td>
</tr>
<tr>
<td>EP-202-3</td>
<td>EU-202-GEN-2</td>
<td>GILEEG</td>
<td>Natural Gas</td>
<td>134</td>
</tr>
</tbody>
</table>

(1) All engines listed are emergency generators.
(2) All engines listed are exempt from construction permitting since the rated capacity is less than 400 bhp.

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limits: 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a"

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

Operational Limits & Requirements

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

NSPS and NESHAP Applicability

NESHAP:
These emergency engines are subject to 40 CFR Part 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590(a)(2)(ii), these spark ignition emergency engines, located at a major source, are new stationary RICE as they were constructed on or after June 12, 2006.
According to 40 CFR 63.6590(c)(6), these emergency engines must meet the requirements of subpart ZZZZ by meeting the requirements of 40 CFR 60 Subpart JJJJ for spark ignition engines. No further requirements apply for these engines under subpart ZZZZ.

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

NSPS:

NSPS Subpart JJJJ Requirements

For Engines ≥ 100 hp, constructed after 6/12/2006 and manufactured on or after 1/1/2009:
Emergency, SI, All Fuel (except Gasoline & Rich Burn LPG)

Emission Standards:
(40 CFR 60.4233(e) and Table 1 to Subpart JJJJ)

<table>
<thead>
<tr>
<th>Maximum Engine Power</th>
<th>Manufacture Date</th>
<th>NOx 2.0</th>
<th>HC + NOx N/A</th>
<th>CO (2) 4.0</th>
<th>VOC (3) 1.0</th>
<th>NOx 160</th>
<th>CO 540</th>
<th>VOC 86</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP ≥ 130</td>
<td>1/1/2009+</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(1) Owners and operators of stationary non-certified SI engines may choose to comply with the emission standards in units of either g/HP-hr or ppmvd at 15 percent O2.
(2) See rule for alternative CO certification standards for engines ≥ 100 hp and manufactured prior to 1/1/2011.
(3) Formaldehyde emissions are not included.

Compliance Demonstrations:
1. You must demonstrate compliance with the emission standards according to one of following methods (40 CFR 60.4243(b)):
   a) Purchasing a certified engine that complies with the emission standards, or
   b) Purchasing a non-certified engine and demonstrating compliance with the emission standards. You must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct performance tests to demonstrate compliance in accordance with 40 CFR 60.4244. Owners and operators are required to notify the DNR 30 days prior to the test date and are required to submit a stack test report to the DNR within 60 days after the completion of the testing. See 40 CFR 4243(b) for additional information.

<table>
<thead>
<tr>
<th>Maximum Engine Power</th>
<th>Initial Test</th>
<th>Subsequent Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 &lt; HP ≤ 500</td>
<td>Required</td>
<td>Not required</td>
</tr>
</tbody>
</table>

2. Owners and operators of SI engines that are required to be certified and who operate and maintain the engine according to the manufacturer’s written instructions must keep records of required maintenance. 40 CFR 60.4243(b)(1), 4243(a) and 4245(a)(2).
3. Owners and operators of natural gas fired engines may operate their engines using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations, but must keep records of such use. If propane is used for more than 100 hours per year in an engine that is not certified to the emission standards when using propane, a performance test must be conducted to demonstrate compliance with the emission standards. 40 CFR 60.4243(e).

4. If you are an owner or operator of engine ≤ 500 HP and you purchase a non-certified engine or you do not operate and maintain your certified engine and control device according to the manufacturer's written emission-related instructions, you are required to perform initial performance testing, but you are not required to conduct subsequent performance testing unless the engine is rebuilt or undergoes major repair or maintenance. 40 CFR 60.4243(f).

5. Owners and operators of certified engines must keep a record from the manufacturer that the engines are certified to meet applicable emission standards. 40 CFR 60.4245(a)(3).

6. Owners and operators of non-certified engines or certified engines operating in a non-certified manner must keep documentation that these engines meet the applicable emission standards. 40 CFR 60.4245(a)(4).

Operating and Recordkeeping Requirements (40 CFR 4243(d))

1. Owners and operators of the following emergency SI engines that do not meet the applicable standards for non-emergency engines must install a non-resettable hour meter. 40 CFR 60.4237.

If maximum engine power is $130 \leq \text{HP} < 500$ and engine was built on or after 1/1/2011, non-resettable hour meter is required to be installed. See Table 1.

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Maximum power (bhp)</th>
<th>Date Installed</th>
<th>Non-resettable Hour Meter Required?</th>
</tr>
</thead>
<tbody>
<tr>
<td>024-GEN-1</td>
<td>134</td>
<td>June 2009</td>
<td>No</td>
</tr>
<tr>
<td>030-GEN-2</td>
<td>174</td>
<td>March 2013</td>
<td>Yes</td>
</tr>
<tr>
<td>202-GEN-2</td>
<td>134</td>
<td>Dec 2007</td>
<td>No</td>
</tr>
</tbody>
</table>

2. There is no time limit on the use of the emergency engine in emergency situations.

3. The engine may be operated for the purpose of maintenance checks and readiness testing for a maximum of 100 hours/year.

4. The engine may be operated for up to 50 hours per year for non-emergency purposes. This operating time cannot be used to generate income for the facility (e.g. supplying power to the grid) and should be included in the total of 100 hours allowed for maintenance checks and readiness testing.

5. Owners and operators of an emergency engine must keep records of all operation of the engine. The owner must record the date and time of operation of the engine and the reason the engine was in operation.

6. Owners and operators of the following emergency SI that does not meet the applicable standards for a non-emergency engine must keep the following records. 40 CFR 60.4245(b).
### Recordkeeping Requirement

<table>
<thead>
<tr>
<th>Maximum Engine Power</th>
<th>Manufactured On Or After</th>
<th>Recordkeeping Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>$130 \leq \text{HP} &lt; 500$</td>
<td>7/1/2011</td>
<td>Hours of operation recorded through a non-resettable hour meter. The owner or operator must 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.</td>
</tr>
</tbody>
</table>

Authority for Requirement: 40 CFR Part 60 Subpart JJJJ

567 IAC 23.1(2)”zzz”

### Monitoring Requirements

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

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

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: See Table: New Emergency Spark Ignition, 25<bhp<100

Associated Equipment

Table: New Emergency SI, 25<bhp<100

<table>
<thead>
<tr>
<th>Emission Point Number</th>
<th>Associated Emission Unit Number</th>
<th>Emission Unit Description</th>
<th>Raw Material</th>
<th>Rated Capacity (bhp)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-115-1</td>
<td>EU-115-GEN-2</td>
<td>PLSEEG</td>
<td>Natural Gas</td>
<td>40</td>
</tr>
<tr>
<td>EP-174-1</td>
<td>EU-174-GEN-1</td>
<td>PANEEG</td>
<td>Natural Gas</td>
<td>54</td>
</tr>
</tbody>
</table>

(1) All engines listed are emergency generators.
(2) All engines listed are exempt from construction permitting since the rated capacity is less than 400 bhp.

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limits: 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a"

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

Operational Limits & Requirements

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

NSPS and NESHAP Applicability

NESHAP:

These emergency engines are subject to 40 CFR Part 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590(a)(2)(ii), these spark ignition emergency engines, located at a major source, are new stationary RICE as they were constructed on or after June 12, 2006.
According to 40 CFR 63.6590(c)(6), these emergency engines must meet the requirements of subpart ZZZZ by meeting the requirements of 40 CFR 60 Subpart JJJJ for spark ignition engines. No further requirements apply for these engines under subpart ZZZZ.

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

NSPS:

NSPS Subpart JJJJ Requirements

For 25 hp < Engines < 100 hp, constructed after 6/12/2006 and manufactured on or after 1/1/2009: Emergency, SI, All Fuel (except Gasoline & Rich Burn LPG)

Emission Standards:
(40 CFR 60.4233(d) and Table 1 to Subpart JJJJ)

<table>
<thead>
<tr>
<th>Maximum Engine Power</th>
<th>Manufacture Date</th>
<th>NOx</th>
<th>HC + NOx</th>
<th>CO</th>
<th>VOC (2)</th>
<th>NOx</th>
<th>CO</th>
<th>VOC</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 &lt; HP ≤ 130</td>
<td>1/1/2009+</td>
<td>N/A</td>
<td>10</td>
<td>387</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

(1) Owners and operators of stationary non-certified SI engines may choose to comply with the emission standards in units of either g/HP-hr or ppmvd at 15 percent O2.

(2) Formaldehyde emissions are not included.

Compliance Demonstrations:

1. You must demonstrate compliance with the emission standards according to one of following methods (40 CFR 60.4243(b)):
   a) Purchasing a certified engine that complies with the emission standards, or
   b) Purchasing a non-certified engine and demonstrating compliance with the emission standards. You must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct performance tests to demonstrate compliance in accordance with 40 CFR 60.4244. Owners and operators are required to notify the DNR 30 days prior to the test date and are required to submit a stack test report to the DNR within 60 days after the completion of the testing. See 40 CFR 4243(b) for additional information.

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<tr>
<td>25 &lt; HP ≤ 500</td>
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2. Owners and operators of SI engines that are required to be certified and who operate and maintain the engine according to the manufacturer’s written instructions must keep records of required maintenance. 40 CFR 60.4243(b)(1), 4243(a) and 4245(a)(2).

3. Owners and operators of natural gas fired engines may operate their engines using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency
operations, but must keep records of such use. If propane is used for more than 100 hours per year in an engine that is not certified to the emission standards when using propane, a performance test must be conducted to demonstrate compliance with the emission standards. 40 CFR 60.4243(e).

4. If you are an owner or operator of engine ≤ 500 HP and you purchase a non-certified engine or you do not operate and maintain your certified engine and control device according to the manufacturer's written emission-related instructions, you are required to perform initial performance testing, but you are not required to conduct subsequent performance testing unless the engine is rebuilt or undergoes major repair or maintenance. 40 CFR 60.4243(f).

5. Owners and operators of certified engines must keep a record from the manufacturer that the engines are certified to meet applicable emission standards. 40 CFR 60.4245(a)(3).

6. Owners and operators of non-certified engines or certified engines operating in a non-certified manner must keep documentation that these engines meet the applicable emission standards. 40 CFR 60.4245(a)(4).

Operating and Recordkeeping Requirements (40 CFR 4243(d))

1. Owners and operators of the following emergency SI engines that do not meet the applicable standards for non-emergency engines must install a non-resettable hour meter. 40 CFR 60.4237.

If maximum engine power is HP < 130 and engine was built on or after 7/1/2008, non-resettable hour meter is required to be installed. See Table 1.

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Maximum power (bhp)</th>
<th>Date Installed</th>
<th>Non-resettable Hour Meter Required?</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU-115-G1N-2</td>
<td>40</td>
<td>Nov. 2012</td>
<td>Yes</td>
</tr>
<tr>
<td>EU-174-G1N-1</td>
<td>54</td>
<td>July 2013</td>
<td>Yes</td>
</tr>
</tbody>
</table>

2. There is no time limit on the use of the emergency engine in emergency situations.

3. The engine may be operated for the purpose of maintenance checks and readiness testing for a maximum of 100 hours/year.

4. The engine may be operated for up to 50 hours per year for non-emergency purposes. This operating time cannot be used to generate income for the facility (e.g. supplying power to the grid) and should be included in the total of 100 hours allowed for maintenance checks and readiness testing.

5. Owners and operators of an emergency engine must keep records of all operation of the engine. The owner must record the date and time of operation of the engine and the reason the engine was in operation.

6. Owners and operators of the following emergency SI that does not meet the applicable standards for a non-emergency engine must keep the following records. 40 CFR 60.4245(b).
Maximum Engine Power | Manufactured On Or After | Recordkeeping Requirement
---|---|---
25 < HP < 130 | 7/1/2008 | Hours of operation recorded through a non-resettable hour meter. The owner or operator must 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.

Authority for Requirement: 40 CFR Part 60 Subpart JJJJ, 567 IAC 23.1(2)"zzz"

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)
**Emission Point ID Number:** See Table: Boilers

**Associated Equipment**

**Table: Boilers**

<table>
<thead>
<tr>
<th>Emission Point Number</th>
<th>Associated Emission Unit Number</th>
<th>Emission Unit Description</th>
<th>Raw Material</th>
<th>Rated Capacity (MMBtu/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-115-4</td>
<td>EU-115-BLR-1</td>
<td>NFH Boiler 1</td>
<td>Natural Gas</td>
<td>3.27</td>
</tr>
<tr>
<td>EP-115-5</td>
<td>EU-115-BLR-2</td>
<td>NFH Boiler 2</td>
<td>Natural Gas</td>
<td>3.27</td>
</tr>
<tr>
<td>EP-174-2</td>
<td>EU-174-BLR-1</td>
<td>Panther Village Boiler 1</td>
<td>Natural Gas</td>
<td>1.00</td>
</tr>
<tr>
<td>EP-174-3</td>
<td>EU-174-BLR-2</td>
<td>Panther Village Boiler 2</td>
<td>Natural Gas</td>
<td>1.25</td>
</tr>
<tr>
<td>EP-174-4</td>
<td>EU-174-BLR-3</td>
<td>Panther Village Boiler 3</td>
<td>Natural Gas</td>
<td>1.25</td>
</tr>
<tr>
<td>EP-174-5</td>
<td>EU-174-BLR-4</td>
<td>Panther Village Boiler 4</td>
<td>Natural Gas</td>
<td>1.25</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.*

Pollutant: Opacity
Emission Limits: 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.6 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(2)"b"(2)

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

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

Operational limits are not required at this time.

**NSPS and NESHAP Applicability**
These emission units are subject to NESHAP Subpart A – General Provisions and Subpart DDDDD – National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters.

Authority for Requirement: 40 CFR Part 63 Subpart DDDDD
Monitoring Requirements
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

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

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

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

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: See Table: Clay Processing

Associated Equipment

Table: Clay Processing

<table>
<thead>
<tr>
<th>Emission Point Number</th>
<th>Associated Emission Unit Number</th>
<th>Emission Unit Description</th>
<th>Control Equipment Number</th>
<th>Control Equipment Description</th>
<th>Raw Material</th>
<th>Rated Capacity (lb/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-070-2</td>
<td>EU-070-CLAY-1</td>
<td>Clay Mixer</td>
<td>CE-070-1</td>
<td>Baghouse</td>
<td>Clay Dust</td>
<td>30.9</td>
</tr>
<tr>
<td></td>
<td>EU-070-MIX-1</td>
<td>Mixer</td>
<td></td>
<td></td>
<td>Clay Dust</td>
<td>15.5</td>
</tr>
<tr>
<td></td>
<td>EU-070-MILL-1</td>
<td>Hammermill</td>
<td></td>
<td></td>
<td>Clay</td>
<td>50</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 Limits: 40 % \(^{(1)}\)  
Authority for Requirement: DNR Construction Permit 00-A-942-S2  
567 IAC 23.3(2)"d"  

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

Pollutant: PM-10  
Emission Limits: 0.185 lb/hr  
Authority for Requirement: DNR Construction Permit 00-A-942-S2

Pollutant: Particulate Matter  
Emission Limits: 0.185 lb/hr; 0.1 gr/dscf  
Authority for Requirement: DNR Construction Permit 00-A-942-S2  
567 IAC 23.3(2)"a"

Operational Limits & Requirements

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

Reporting & Recordkeeping

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

1. Record the amount of powder (clay) mixed per month.  
2. Maintain a rolling twelve-month total of the amount of powder (clay) used.
Authority for Requirement: DNR Construction Permits 00-A-942-S2

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

Stack Height, (ft, from the ground): 8  
Stack Opening, (inches, dia.): 20  
Exhaust Flow Rate (scfm): 5,400  
Exhaust Temperature (°F): Ambient  
Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permits 00-A-942-S2

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

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

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

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

The data pertaining to the plan 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: EP-070-3**

**Associated Equipment**
Associated Emission Unit ID Numbers: EU-070-MET-1  
Emissions Control Equipment ID Number: CE-070-3  
Emissions Control Equipment Description: Baghouse

---

Emission Unit vented through this Emission Point: EU-070-MET-1  
Emission Unit Description: Metal Working Equipment (Disc/Belt Sander, Disc Sander, Grinder, Chop Saw, and Bead Blaster)  
Raw Material/Fuel: Metal  
Rated Capacity: 18 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 Limits:** 40 %  
  **Authority for Requirement:** DNR Construction Permit 00-A-943  
  567 IAC 23.3(2)”d”

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

- **Pollutant:** PM-10  
  **Emission Limits:** 0.36 lb/hr  
  **Authority for Requirement:** DNR Construction Permit 00-A-943

- **Pollutant:** Particulate Matter  
  **Emission Limits:** 0.1 gr/scf  
  **Authority for Requirement:** DNR Construction Permit 00-A-943  
  567 IAC 23.3(2)”a”

- **Pollutant:** Particulate Matter  
  **Emission Limits:** 0.05 gr/dscf  
  **Authority for Requirement:** 567 IAC 23.4(6)

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

- **Stack Height, (ft, from the ground):** 41  
- **Stack Opening, (inches):** 18x18
Exhaust Flow Rate (scfm): 2,100
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical Obstructed
Authority for Requirement: DNR Construction Permit 00-A-943

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

**Monitoring Requirements**

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

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

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

*The data pertaining to the plan 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: EP-190-3**

**Associated Equipment**

Associated Emission Unit ID Numbers: EU-190-DC-1  
Emissions Control Equipment ID Number: CE-190-3  
Emissions Control Equipment Description: Baghouse  

---

Emission Unit vented through this Emission Point: EU-190-DC-1  
Emission Unit Description: Carpenter Shop (Disc Sander, Disc/Belt Sander, Band Saw, Surface Planer, Table Saw / Router, Joiner, Table Saw, Miter, Box Saw, Radial Arm Saw, Surface Sander and Floor Skimmer)  
Raw Material/Fuel: Wood Shop Material  
Rated Capacity: 36.9 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 Limits: 40 %

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

Pollutant: PM-10  
Emission Limits: 0.365 lb/hr  
Authority for Requirement: DNR Construction Permit 00-A-948  
567 IAC 23.3(2)"a"

Pollutant: Particulate Matter  
Emission Limits: 0.1 gr/scf  
Authority for Requirement: DNR Construction Permit 00-A-948  
567 IAC 23.3(2)"a"

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 20  
Stack Opening, (inches, dia.): 14  
Exhaust Flow Rate (scfm): 4,300  
Exhaust Temperature (°F): Ambient
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 00-A-948

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

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

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agency Approved Operation &amp; Maintenance Plan Required?</td>
<td>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>

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: See Table: Storage Tanks

Associated Equipment

Table: Storage Tanks

<table>
<thead>
<tr>
<th>Emission Point Number</th>
<th>Associated Emission Unit Number</th>
<th>Emission Unit Description</th>
<th>Raw Material</th>
<th>Maximum Capacity (gallons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-190-8</td>
<td>EU-190-AST-2</td>
<td>Storage Tank</td>
<td>E-85 / Diesel Fuel</td>
<td>5,000</td>
</tr>
<tr>
<td>EP-190-9</td>
<td>EU-190-AST-1</td>
<td>Storage Tank</td>
<td>E-85 / Diesel Fuel</td>
<td>5,000</td>
</tr>
<tr>
<td>EP-190-10</td>
<td>EU-190-AST-3</td>
<td>Storage Tank</td>
<td>E-10 Fuel</td>
<td>10,000</td>
</tr>
</tbody>
</table>

Applicable Requirements

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

There are no emission limits for these emission points at this time.


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

Operating Limits
Operating limits are not required at this time.

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

A. This owner or operator shall keep record of the type of material stored in this tank and the total throughput during 12-month rolling period.


Emission Point Characteristics
*Each of these emission points shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 14.25
Stack Opening, (inches, dia.): 2
Exhaust Flow Rate (scfm): Working and Breathing Loss
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical, Obstructed
The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flow rate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

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

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

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: EP-305-2

Associated Equipment

Associated Emission Unit ID Numbers: EU-305-Muller-1, EU-305-REC-1, EU-305-Blast-1
Emissions Control Equipment ID Number: CE-305-1
Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: EU-305-Muller-1, EU-305-REC-1, EU-305-Blast-1
Emission Unit Description: Green Sand Muller, Reclaimer, Blast Machine
Raw Material/Fuel: Foundry Material
Rated Capacity: 30.9 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 Limits: 40 % (1)
Authority for Requirement: DNR Construction Permit 00-A-500-S1
567 IAC 23.3(2)"d"

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

Pollutant: PM-10
Emission Limits: 0.617 lb/hr
Authority for Requirement: DNR Construction Permit 00-A-500-S1

Pollutant: Particulate Matter
Emission Limits: 0.05 gr/dscf
Authority for Requirement: DNR Construction Permit 00-A-500-S1
567 IAC 23.4(6)

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

Stack Height, (ft, from the ground): 14
Stack Opening, (inches, dia.): 14x14
Exhaust Flow Rate (scfm): 3,600
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical, Unobstructed
Authority for Requirement: DNR Construction Permit 00-A-500-S1

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

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

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

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

The data pertaining to the plan 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: EP-190-4

Associated Equipment

Associated Emission Unit ID Number: EU-190-PNT-1
Emissions Control Equipment ID Number: CE-190-2
Emissions Control Equipment Description: Dry Filters

Emission Unit vented through this Emission Point: EU-190-PNT-1
Emission Unit Description: Paint Booth – Physical Plant Paint Shop
Raw Material/Fuel: Paint & Solvents
Rated Capacity: N/A

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40%(1)
Authority for Requirement: DNR Construction Permit 00-A-949-S1
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM) – State
Emission Limit(s): 0.01 gr/scf
Authority for Requirement: DNR Construction Permit 00-A-949-S1
567 IAC 23.4(13)

Operational Limits & Reporting and Recordkeeping Requirements

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

A. The owner or operator shall not use any spray paint guns in this paint booth.
B. Maintain the SDS of all painting materials used in this paint booth.

Authority for Requirement: DNR Construction Permit 00-A-949-S1
**Emission Point Characteristics**
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 25  
Stack Opening, (inches, dia.): 24  
Exhaust Flow Rate (scfm): 4,500  
Exhaust Temperature (°F): Ambient  
Discharge Style: Vertical Obstructed  
Authority for Requirement: DNR Construction Permit 00-A-949-S1

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

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

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

**Spray Booth Filter Agency Operation & Maintenance Plan**

- **Weekly**
  - Inspect the spray booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material.
  - Maintain a written record of the observation and any action resulting from the inspection.

- **Recordkeeping and Reporting**
  - Maintenance and inspection records will be kept for five years and available upon request.

- **Quality Control**
  - The filter equipment will be operated and maintained according to the manufacturers' recommendations.

**Authority for Requirement:** 567 IAC 22.108(3)
IV. General Conditions

This permit is issued under the authority of the Iowa Code subsection 455B.133(8) and in accordance with 567 Iowa Administrative Code chapter 22.

G1. Duty to Comply
1. The permittee must comply with all conditions of the Title V permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for a permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. 567 IAC 22.108(9)"a"
2. Any compliance schedule shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based. 567 IAC 22.105 (2)"h"(3)
3. Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be enforceable by the administrator and are incorporated into this permit. 567 IAC 22.108 (1)"b"
4. Unless specified as either "state enforceable only" or "local program enforceable only", all terms and conditions in the permit, including provisions to limit a source's potential to emit, are enforceable by the administrator and citizens under the Act. 567 IAC 22.108 (14)
5. It shall not be a defense for a permittee, in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. 567 IAC 22.108 (9)"b"
6. For applicable requirements with which the permittee is in compliance, the permittee shall continue to comply with such requirements. For applicable requirements that will become effective during the permit term, the permittee shall meet such requirements on a timely basis. 567 IAC 22.108(15)"c"

G2. Permit Expiration
1. Except as provided in rule 567—22.104(455B), permit expiration terminates a source’s right to operate unless a timely and complete application for renewal has been submitted in accordance with rule 567—22.105(455B). 567 IAC 22.116(2)
2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall submit on forms or electronic format specified by the Department to the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, Wallace State Office Building, 502 E 9th St., Des Moines, IA 50319-0034, two copies (three if your facility is located in Linn or Polk county) of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. An additional copy must also be sent to U.S. EPA Region VII, Attention: Chief of Air Permitting & Standards Branch, 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. 567 IAC 22.105

G3. Certification Requirement for Title V Related Documents
Any application, report, compliance certification or other document submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. All certifications shall state that, based on information and belief formed after reasonable
inquiry, the statements and information in the document are true, accurate, and complete. 567 IAC 22.107 (4)

G4. Annual Compliance Certification
By March 31 of each year, the permittee shall submit compliance certifications for the previous calendar year. The certifications shall include descriptions of means to monitor the compliance status of all emissions sources including emissions limitations, standards, and work practices in accordance with applicable requirements. The certification for a source shall include the identification of each term or condition of the permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with all applicable department rules. For sources determined not to be in compliance at the time of compliance certification, a compliance schedule shall be submitted which provides for periodic progress reports, dates for achieving activities, milestones, and an explanation of why any dates were missed and preventive or corrective measures. The compliance certification shall be submitted to the administrator, director, and the appropriate DNR Field office. 567 IAC 22.108 (15)"e"

G5. Semi-Annual Monitoring Report
By March 31 and September 30 of each year, the permittee shall submit a report of any monitoring required under this permit for the 6 month periods of July 1 to December 31 and January 1 to June 30, respectively. All instances of deviations from permit requirements must be clearly identified in these reports, and the report must be signed by a responsible official, consistent with 567 IAC 22.107(4). The semi-annual monitoring report shall be submitted to the director and the appropriate DNR Field office. 567 IAC 22.108 (5)

G6. Annual Fee
1. The permittee is required under subrule 567 IAC 22.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The emissions inventory shall be submitted annually by March 31 with forms specified by the department documenting actual emissions for the previous calendar year.
4. The fee shall be submitted annually by July 1 with forms specified by the department.
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.
6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d". 
G7. Inspection of Premises, Records, Equipment, Methods and Discharges
Upon presentation of proper credentials and any other documents as may be required by law, the permittee shall allow the director or the director's authorized representative to:
1. Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
4. Sample or monitor, at reasonable times, substances or parameters for the purpose of ensuring compliance with the permit or other applicable requirements. 567 IAC 22.108 (15)"b"

G8. Duty to Provide Information
The permittee shall furnish to the director, within a reasonable time, any information that the director may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the director copies of records required to be kept by the permit, or for information claimed to be confidential, the permittee shall furnish such records directly to the administrator of EPA along with a claim of confidentiality. 567 IAC 22.108 (9)"e"

G9. General Maintenance and Repair Duties
The owner or operator of any air emission source or control equipment shall:
1. Maintain and operate the equipment or control equipment at all times in a manner consistent with good practice for minimizing emissions.
2. Remedy any cause of excess emissions in an expeditious manner.
3. Minimize the amount and duration of any excess emission to the maximum extent possible during periods of such emissions. These measures may include but not be limited to the use of clean fuels, production cutbacks, or the use of alternate process units or, in the case of utilities, purchase of electrical power until repairs are completed.
4. Schedule, at a minimum, routine maintenance of equipment or control equipment during periods of process shutdowns to the maximum extent possible. 567 IAC 24.2(1)

G10. Recordkeeping Requirements for Compliance Monitoring
1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:
   a. The date, place and time of sampling or measurements
   b. The date the analyses were performed.
   c. The company or entity that performed the analyses.
   d. The analytical techniques or methods used.
   e. The results of such analyses; and
   f. The operating conditions as existing at the time of sampling or measurement.
   g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)
2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.
3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:
   a. Comply with all terms and conditions of this permit specific to each alternative scenario.
   b. Maintain a log at the permitted facility of the scenario under which it is operating.
   c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. 567 IAC 22.108(4), 567 IAC 22.108(12)

G11. Evidence used in establishing that a violation has or is occurring.
Notwithstanding any other provisions of these rules, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any provisions herein.
1. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred at a source:
   a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 22;
   b. Compliance test methods specified in 567 Chapter 25; or
   c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.
2. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:
   a. Any monitoring or testing methods provided in these rules; or
   b. Other testing, monitoring, or information gathering methods that produce information comparable to that produced by any method in subrule 21.5(1) or this subrule. 567 IAC 21.5(1)-567 IAC 21.5(2)

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

G13. Hazardous Release
The permittee must report any situation involving the actual, imminent, or probable release of a hazardous substance into the atmosphere which, because of the quantity, strength and toxicity of the substance, creates an immediate or potential danger to the public health, safety or to the environment. A verbal report shall be made to the department at (515) 725-8694 and to the local police department or the office of the sheriff of the affected county as soon as possible but not later than six hours after the discovery or onset of the condition. This verbal report must be followed up with a written report as indicated in 567 IAC 131.2(2). 567 IAC Chapter 131-State Only

G14. Excess Emissions and Excess Emissions Reporting Requirements
1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a
violation. If the owner or operator of a source maintains that the incident of excess emission was
due to a malfunction, the owner or operator must show that the conditions which caused the
incident of excess emission were not preventable by reasonable maintenance and control
measures. Determination of any subsequent enforcement action will be made following review
of this report. If excess emissions are occurring, either the control equipment causing the excess
emission shall be repaired in an expeditious manner or the process generating the emissions shall
be shutdown within a reasonable period of time. An expeditious manner is the time necessary to
determine the cause of the excess emissions and to correct it within a reasonable period of time.
A reasonable period of time is eight hours plus the period of time required to shut down the
process without damaging the process equipment or control equipment. A variance from this
subrule may be available as provided for in Iowa Code section 455B.143. In the case of an
electric utility, a reasonable period of time is eight hours plus the period of time until comparable
generating capacity is available to meet consumer demand with the affected unit out of service,
unless, the director shall, upon investigation, reasonably determine that continued operation
constitutes an unjustifiable environmental hazard and issue an order that such operation is not in
the public interest and require a process shutdown to commence immediately.

2. Excess Emissions Reporting
   a. Initial Reporting of Excess Emissions. An incident of excess emission (other than an
      incident of excess emission during a period of startup, shutdown, or cleaning) shall be
      reported to the appropriate field office of the department within eight hours of, or at the
      start of the first working day following the onset of the incident. The reporting exemption
      for an incident of excess emission during startup, shutdown or cleaning does not relieve
      the owner or operator of a source with continuous monitoring equipment of the obligation
      of submitting reports required in 567-subrule 25.1(6). An initial report of excess emission
      is not required for a source with operational continuous monitoring equipment (as
      specified in 567-subrule 25.1(1)) if the incident of excess emission continues for less
      than 30 minutes and does not exceed the applicable emission standard by more than 10
      percent or the applicable visible emission standard by more than 10 percent opacity. The
      initial report may be made by electronic mail (E-mail), in person, or by telephone and
      shall include as a minimum the following:
         i. The identity of the equipment or source operation from which the excess
            emission originated and the associated stack or emission point.
         ii. The estimated quantity of the excess emission.
         iii. The time and expected duration of the excess emission.
         iv. The cause of the excess emission.
         v. The steps being taken to remedy the excess emission.
         vi. The steps being taken to limit the excess emission in the interim period.
   b. Written Reporting of Excess Emissions. A written report of an incident of excess
      emission shall be submitted as a follow-up to all required initial reports to the department
      within seven days of the onset of the upset condition, and shall include as a minimum the
      following:
         i. The identity of the equipment or source operation point from which the excess
            emission originated and the associated stack or emission point.
         ii. The estimated quantity of the excess emission.
         iii. The time and duration of the excess emission.
         iv. The cause of the excess emission.
v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.
vii. The steps that were taken to limit the excess emission.
vi. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. 567 IAC 24.1(1)-567 IAC 24.1(4)

3. Emergency Defense for Excess Emissions. For the purposes of this permit, an “emergency” means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include non-compliance, to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation or operator error. An emergency constitutes an affirmative defense to an action brought for non-compliance with technology based limitations if it can be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that:
   a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
   b. The facility at the time was being properly operated;
   c. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements of the permit; and
   d. The permittee submitted notice of the emergency to the director by certified mail within two working days of the time when the emissions limitations were exceeded due to the emergency. This notice fulfills the requirement of paragraph 22.108(5)"b." – See G15. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof. This provision is in addition to any emergency or upset provision contained in any applicable requirement. 567 IAC 22.108(16)

G15. Permit Deviation Reporting Requirements
A deviation is any failure to meet a term, condition or applicable requirement in the permit. Reporting requirements for deviations that result in a hazardous release or excess emissions have been indicated above (see G13 and G14). Unless more frequent deviation reporting is specified in the permit, any other deviation shall be documented in the semi-annual monitoring report and the annual compliance certification (see G4 and G5). 567 IAC 22.108(5)"b"

G16. Notification Requirements for Sources That Become Subject to NSPS and NESHAP Regulations
During the term of this permit, the permittee must notify the department of any source that becomes subject to a standard or other requirement under 567-subrule 23.1(2) (standards of performance of new stationary sources) or section 111 of the Act; or 567-subrule 23.1(3) (emissions standards for hazardous air pollutants), 567-subrule 23.1(4) (emission standards for hazardous air pollutants for source categories) or section 112 of the Act. This notification shall be submitted in writing to the department pursuant to the notification requirements in 40 CFR Section 60.7, 40 CFR Section 61.07, and/or 40 CFR Section 63.9. 567 IAC 23.1(2), 567 IAC 23.1(3), 567 IAC 23.1(4)
G17. Requirements for Making Changes to Emission Sources That Do Not Require Title V Permit Modification

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:
   a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the Act, modifications under section 112 of the Act, or major modifications as defined in 567 IAC Chapter 22.
   b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
   c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
   d. The changes are not subject to any requirement under Title IV of the Act (revisions affecting Title IV permitting are addressed in rules 567—22.140(455B) through 567-22.144(455B));
   e. The changes comply with all applicable requirements.
   f. For each such change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:
      i. A brief description of the change within the permitted facility,
      ii. The date on which the change will occur,
      iii. Any change in emission as a result of that change,
      iv. The pollutants emitted subject to the emissions trade
      v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
      vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
      vii. Any permit term or condition no longer applicable as a result of the change.

2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. 567 IAC 22.110(1)

3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). 567 IAC 22.110(3)

4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. 567 IAC 22.110(4)
5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 22.108(11)*

**G18. Duty to Modify a Title V Permit**

1. **Administrative Amendment.**
   
   a. An administrative permit amendment is a permit revision that does any of the following:
      
      i. Correct typographical errors
      
      ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;
      
      iii. Require more frequent monitoring or reporting by the permittee; or
      
      iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.

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

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

2. **Minor Title V Permit Modification.**
   
   a. Minor Title V permit modification procedures may be used only for those permit modifications that satisfy all of the following:
      
      i. Do not violate any applicable requirement;
      
      ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit;
      
      iii. Do not require or change a case by case determination of an emission limitation or other standard, or an increment analysis;
      
      iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act;
      
      v. Are not modifications under any provision of Title I of the Act; and
      
      vi. Are not required to be processed as significant modification under rule 567 - 22.113(455B).

   b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:
      
      i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;
ii. The permittee's suggested draft permit;
iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used; and
iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).

c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against the facility.

3. Significant Title V Permit Modification.

Significant Title V modification procedures shall be used for applications requesting Title V permit modifications that do not qualify as minor Title V modifications or as administrative amendments. These include but are not limited to all significant changes in monitoring permit terms, every relaxation of reporting or recordkeeping permit terms, and any change in the method of measuring compliance with existing requirements. Significant Title V modifications shall meet all requirements of 567 IAC Chapter 22, including those for applications, public participation, review by affected states, and review by the administrator, as those requirements that apply to Title V issuance and renewal.

The permittee shall submit an application for a significant permit modification not later than three months after commencing operation of the changed source unless the existing Title V permit would prohibit such construction or change in operation, in which even the operation of the changed source may not commence until the department revises the permit. 567 IAC 22.111-567 IAC 22.113

G19. Duty to Obtain Construction Permits

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

G20. Asbestos

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

G21. Open Burning

The permittee is prohibited from conducting open burning, except as provided in 567 IAC 23.2. 567 IAC 23.2 except 23.2(3)"j"; 567 IAC 23.2(3)"j" - State Only
G22. Acid Rain (Title IV) Emissions Allowances
The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated there under. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners and operators of the unit or the designated representative of the owners and operators is prohibited. Exceedences of applicable emission rates are prohibited. “Held” in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. 567 IAC 22.108(7).

G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements
1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
   a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.
   b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.
   c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.
   d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.
2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:
   a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.
   b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.
   c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.
   d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)
   e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.
   f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.
3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.
4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle
has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant.

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

G24. Permit Reopenings

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

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

   a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;
   b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.
   c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. 567 IAC 22.108(17)"a", 567 IAC 22.108(17)"b"

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

   a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;
   b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;
   c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.
   d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.
   e. The department or the administrator determines that the permit must be revised or
revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*

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

5. A notice of intent shall be provided to the Title V source at least 30 days in advance of the date the permit is to be reopened, except that the director may provide a shorter time period in the case of an emergency. *567 IAC 22.114(3)*

**G25. Permit Shield**

1. The director may expressly include in a Title V permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:
   a. Such applicable requirements are included and are specifically identified in the permit; or
   b. The director, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.

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

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

**G26. Severability**

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

**G27. Property Rights**

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

**G28. Transferability**

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

**G29. Disclaimer**

No review has been undertaken on the engineering aspects of the equipment or control equipment other than the potential of that equipment for reducing air contaminant emissions. *567 IAC 22.3(3)"c"*
**G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification**

The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with applicable requirements of 567 – Chapter 23 or a permit condition. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. If the owner or operator does not provide timely notice to the department, the department shall not consider the test results or performance evaluation results to be a valid demonstration of compliance with applicable rules or permit conditions. Upon written request, the department may allow a notification period of less than 30 days. At the department’s request, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. A testing protocol shall be submitted to the department no later than 15 days before the owner or operator conducts the compliance demonstration. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.

Stack test notifications, reports and correspondence shall be sent to:

Stack Test Review Coordinator  
Iowa DNR, Air Quality Bureau  
Wallace State Office Building  
502 E 9th St.  
Des Moines, IA 50319-0034  
(515) 725-9526

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

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

**G31. Prevention of Air Pollution Emergency Episodes**

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

567 IAC 26.1(1)
G32. Contacts List

The current address and phone number for reports and notifications to the EPA administrator is:
Iowa Compliance Officer
Air Branch
Enforcement and Compliance Assurance Division
U.S. EPA Region 7
11201 Renner Blvd.
Lenexa, KS 66219
(913) 551-7020

The current address and phone number for reports and notifications to the department or the Director is:
Chief, Air Quality Bureau
Iowa Department of Natural Resources
Wallace State Office Building
502 E 9th St.
Des Moines, IA 50319-0034
(515) 725-8200

Reports or notifications to the DNR Field Offices or local programs shall be directed to the supervisor at the appropriate field office or local program. Current addresses and phone numbers are:

**Field Office 1**
909 West Main – Suite 4
Manchester, IA 52057
(563) 927-2640

**Field Office 2**
2300-15th St., SW
Mason City, IA 50401
(641) 424-4073

**Field Office 3**
1900 N. Grand Ave.
Spencer, IA 51301
(712) 262-4177

**Field Office 4**
1401 Sunnyside Lane
Atlantic, IA 50022
(712) 243-1934

**Field Office 5**
Wallace State Office Building
502 E 9th St.
Des Moines, IA 50319-0034
(515) 725-0268

**Field Office 6**
1023 West Madison Street
Washington, IA 52353-1623
(319) 653-2135

**Polk County Public Works Dept.**
Air Quality Division
5885 NE 14th St.
Des Moines, IA 50313
(515) 286-3351

**Linn County Public Health**
Air Quality Branch
501 13th St., NW
Cedar Rapids, IA 52405
(319) 892-6000
V. APPENDIX

   https://www.ecfr.gov/cgi-bin/text-idx?node=sp40.7.60.a

B. 40 CFR 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
   https://www.ecfr.gov/cgi-bin/text-idx?node=sp40.7.60.iiii

C. 40 CFR 60 Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
   https://www.ecfr.gov/cgi-bin/text-idx?node=sp40.7.60.jjjj

   https://www.ecfr.gov/cgi-bin/text-idx?node=sp40.7.63.a

   https://www.ecfr.gov/cgi-bin/text-idx?node=sp40.7.63.zzzz

   https://www.ecfr.gov/cgi-bin/text-idx?node=sp40.7.63.ddddd