Iowa Department of Natural Resources
Title V Operating Permit

Name of Permitted Facility: Clow Valve Company-Plant 1 Foundry
Facility Location: 1607 17th Avenue E
Oskaloosa, Iowa 52577
Air Quality Operating Permit Number: 10-TV-002R2-M001
Expiration Date: 06/30/2026
Permit Renewal Application Deadline: 12/30/2025

EIQ Number: 92-3484
Facility File Number: 62-01-001

Responsible Official
Name: Mark Willett
Title: General Manager
Mailing Address: 902 South Second Street
Oskaloosa, IA 52577
Phone #: 641-673-8611

Permit Contact Person for the Facility
Name: Dain Netland
Title: Environmental Manager
Mailing Address: 902 South Second Street
Oskaloosa, IA 52577
Phone #: 641-569-6093

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 are being issued for Clow Valve Company (one stationary source). This permit is for the foundry portion of the facility. A separate Title V permit covers the Machine shop.

For the Director of the Department of Natural Resources

Marnie Stein, Supervisor of Air Operating Permits Section

Date 06/20/2022
# Table of Contents

I. Facility Description and Equipment List .................................................................4

II. Plant - Wide Conditions ......................................................................................7

III. Emission Point Specific Conditions ..................................................................10

IV. General Conditions .........................................................................................69
   G1. Duty to Comply
   G2. Permit Expiration
   G3. Certification Requirement for Title V Related Documents
   G4. Annual Compliance Certification
   G5. Semi-Annual Monitoring Report
   G6. Annual Fee
   G7. Inspection of Premises, Records, Equipment, Methods and Discharges
   G8. Duty to Provide Information
   G9. General Maintenance and Repair Duties
   G10. Recordkeeping Requirements for Compliance Monitoring
   G11. Evidence used in establishing that a violation has or is occurring.
   G13. Hazardous Release
   G14. Excess Emissions and Excess Emissions Reporting Requirements
   G15. Permit Deviation Reporting Requirements
   G16. Notification Requirements for Sources That Become Subject to NSPS and NESHAP Regulations
   G17. Requirements for Making Changes to Emission Sources That Do Not Require Title V Permit Modification
   G18. Duty to Modify a Title V Permit
   G19. Duty to Obtain Construction Permits
   G20. Asbestos
   G21. Open Burning
   G22. Acid Rain (Title IV) Emissions Allowances
   G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements
   G24. Permit Reopenings
   G25. Permit Shield
   G26. Severability
   G27. Property Rights
   G28. Transferability
   G29. Disclaimer
   G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification
   G31. Prevention of Air Pollution Emergency Episodes
   G32. Contacts List

V. Appendix A: NSPS & NESHAP .........................................................................82
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: Clow Valve Company-Plant 1 Foundry
Permit Number: 10-TV-002R2-M001

Facility Description: Gray and Ductile Iron Foundries (SIC 3321)

<table>
<thead>
<tr>
<th>Emission Point Number</th>
<th>Emission Unit Number</th>
<th>Emission Unit Description</th>
<th>IDNR Construction Permit Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-002</td>
<td>EU-042</td>
<td>Induction Melting Furnace</td>
<td>05-A-877-S3</td>
</tr>
<tr>
<td>EP-002</td>
<td>EU-043</td>
<td>Induction Melting Furnace</td>
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</tr>
<tr>
<td>EP-010</td>
<td>EU-008A</td>
<td>Iron Shotblasting</td>
<td>06-A-400-S7</td>
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<td>EP-010</td>
<td>EU-008B</td>
<td>Iron Shotblasting</td>
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<td>EP-010</td>
<td>EU-010</td>
<td>12 Grinding Stations</td>
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<td>EP-010</td>
<td>EU-010B</td>
<td>Touch-Up Wire Welding</td>
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<tr>
<td>EP-009</td>
<td>EU009A</td>
<td>Sand Handling Muller</td>
<td>04-A-956-S3</td>
</tr>
<tr>
<td>EP-009</td>
<td>EU009B</td>
<td>Sand Handling Muller</td>
<td></td>
</tr>
<tr>
<td>EP-009</td>
<td>EU009C</td>
<td>Return Sand Elevator (North)</td>
<td></td>
</tr>
<tr>
<td>EP-009</td>
<td>EU009E</td>
<td>Iron Sand System</td>
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<td>EP-011</td>
<td>EU-011C</td>
<td>Return Sand Elevator (South)</td>
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<tr>
<td>EP-011</td>
<td>EU-011D</td>
<td>Punchout</td>
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<td>EU-011E</td>
<td>Didion</td>
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<tr>
<td>EP-011F-F</td>
<td>EU-011-F(PM)</td>
<td>Side Floor Molding (Particulate Emissions)</td>
<td>N/A</td>
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<tr>
<td>EP-011F-F</td>
<td>EU-011-F(VOC)</td>
<td>Side Floor Molding (VOC Emissions)</td>
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<tr>
<td>EP-022B</td>
<td>EU-022</td>
<td>Mold Pouring and Cooling</td>
<td>06-A-408-S3</td>
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<tr>
<td>EP-022C</td>
<td>EU-022</td>
<td>Side Floor Mold Pouring Into Green Sand Molds and Cooling</td>
<td>06-A-409-S3</td>
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<tr>
<td>EP-022B-F</td>
<td>EU-022B</td>
<td>Side Floor Mold Pouring Into Green Sand Molds and Cooling</td>
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<tr>
<td>EP-022B-F</td>
<td>EU-022B(PUNB)</td>
<td>Side Floor Mold Pouring Into No Bake Molds and Cooling</td>
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<tr>
<td>EP-022B-F</td>
<td>EU-022B(PUNB)-HAP</td>
<td>Side Floor Mold Pouring Into No Bake Molds and Cooling</td>
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<tr>
<td>EP-037</td>
<td>EU-021</td>
<td>West Holding Furnace</td>
<td>08-A-250-S1</td>
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<td>EP-037</td>
<td>EU-023</td>
<td>East Holding Furnace</td>
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<td>EP-037</td>
<td>EU-HMT</td>
<td>Hot Melt Transfer</td>
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<td>EP-046</td>
<td>EU-046A</td>
<td>Return Sand Tunnel</td>
<td>20-A-018-S1</td>
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<td>EP-046</td>
<td>EU-046B</td>
<td>Return Sand Transfer Belt (additional pickups)</td>
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<td>EP-046</td>
<td>EU-046C</td>
<td>Core Separator Handling</td>
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### B. Brass Foundry

<table>
<thead>
<tr>
<th>Emission Point Number</th>
<th>Emission Unit Number</th>
<th>Emission Unit Description</th>
<th>IDNR Construction Permit Number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EU-013A</td>
<td>Robotic Brass Cutoff Saw</td>
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<td></td>
<td>EU-013B</td>
<td>Manual Brass Cutoff Saw</td>
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<tr>
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<td>EU-024A</td>
<td>Brass Sand Muller</td>
<td>94-A-502-S5</td>
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<td></td>
<td>EU-024B</td>
<td>Side Floor Shakeout</td>
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<td>EU-024D</td>
<td>Didion</td>
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<td>EU-024E</td>
<td>Return Sand Conveyor</td>
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<td>EU-024F</td>
<td>Triple Screen</td>
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<td>EU-024H</td>
<td>Mold Machine Vents</td>
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<td></td>
<td>EU-032B</td>
<td>Electric Induction Furnace B</td>
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<tr>
<td></td>
<td>EU-032C</td>
<td>Electric Induction Furnace C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EU-032D</td>
<td>Electric Induction Furnace D</td>
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<td></td>
<td>EU-032E</td>
<td>South Pour Line</td>
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<td></td>
<td>EU-032F</td>
<td>Production Heater</td>
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<td></td>
<td>EU-032G</td>
<td>Production Heater (dual)</td>
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### C. Core Machines

<table>
<thead>
<tr>
<th>Emission Point Number</th>
<th>Emission Unit Number</th>
<th>Emission Unit Description</th>
<th>IDNR Construction Permit Number</th>
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<tr>
<td>EP-020</td>
<td>EU-020</td>
<td>No Bake Core Machines</td>
<td>06-A-406-S2</td>
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<td>EP-031</td>
<td>EU-031</td>
<td>Laempe Core Making</td>
<td>06-A-411-S3</td>
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<td>EP-039</td>
<td>EU-039</td>
<td>Laempe Core Making</td>
<td>11-A-251</td>
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<td>EP-038</td>
<td>EU-038</td>
<td>Sinto Core Machine</td>
<td>10-A-303-S1</td>
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<td></td>
<td>EU-038 (VOC)</td>
<td>Sinto Core Machine (VOC)</td>
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</table>

### D. Emergency Generators

<table>
<thead>
<tr>
<th>Emission Point Number</th>
<th>Emission Unit Number</th>
<th>Emission Unit Description</th>
<th>IDNR Construction Permit Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-GEN1</td>
<td>EU-GEN1</td>
<td>Brass Furnace Back-Up Generator</td>
<td>N/A</td>
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<tr>
<td>EP-GEN2</td>
<td>EU-GEN2</td>
<td>Back Flow Preventer Generator</td>
<td>N/A</td>
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</table>
## Insignificant Activities Equipment List

<table>
<thead>
<tr>
<th>Insignificant Emission Unit Number</th>
<th>Insignificant Emission Unit Description</th>
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<tbody>
<tr>
<td>EU-009D</td>
<td>North Storage Bins</td>
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<tr>
<td>EU-014</td>
<td>No Bake Sand Silo</td>
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<tr>
<td>EU-014A</td>
<td>No Bake Sand Holding Tank</td>
</tr>
<tr>
<td>EU-015</td>
<td>Iron Bond Silo</td>
</tr>
<tr>
<td>EU-017</td>
<td>Inactive Silo</td>
</tr>
<tr>
<td>EU-033A</td>
<td>Iron Bond Day Tank (West)</td>
</tr>
<tr>
<td>EU-033B</td>
<td>Iron Bond Day Tank (East)</td>
</tr>
<tr>
<td>EU-034</td>
<td>Brass Bond Day Tank</td>
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<tr>
<td>EU-035</td>
<td>Brass Bond Silo</td>
</tr>
<tr>
<td>EU-PH</td>
<td>Plant Heating (approx 75 natural gas heaters, all smaller than 10MMBtu/hr)</td>
</tr>
<tr>
<td>EU-BCT</td>
<td>(3) Brass Cooling Tower</td>
</tr>
<tr>
<td>EU-031Heat</td>
<td>Laempe Core Heater (natural gas-fired, smaller than 10 MMBtu/hr)</td>
</tr>
<tr>
<td>EU-BLH</td>
<td>Brass Ladle Heaters (natural gas-fired, all smaller than 10 MMBtu/hr)</td>
</tr>
<tr>
<td>EU-ILH</td>
<td>Iron Ladle Heaters (natural gas-fired, all smaller than 10 MMBtu/hr)</td>
</tr>
<tr>
<td>EU-TANK1</td>
<td>Diesel Tank (300 gal)</td>
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<tr>
<td>EU-TANK2</td>
<td>Used Oil Tank (500 gal tank)</td>
</tr>
<tr>
<td>EU-040</td>
<td>Sinto Sand Silo</td>
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<tr>
<td>EU-041</td>
<td>Iron Bond Silo</td>
</tr>
<tr>
<td>EU-IMCT</td>
<td>Iron Melt Cooling Tower</td>
</tr>
<tr>
<td>EU-RW</td>
<td>Repair Welding</td>
</tr>
<tr>
<td>EU-POW</td>
<td>Pinker Omega Mixer</td>
</tr>
<tr>
<td>EU-MC</td>
<td>Miscellaneous Chemical Usage</td>
</tr>
<tr>
<td>EU-AER</td>
<td>Aerosol Can Purge</td>
</tr>
<tr>
<td>EU-047</td>
<td>Laempe Sand Silo</td>
</tr>
<tr>
<td>EU-GC</td>
<td>Gate Crusher</td>
</tr>
</tbody>
</table>

ZLP 6 10-TV-002R2-M001, 06/20/2022
II. Plant-Wide Conditions

Facility Name: Clow Valve Company-Plant 1 Foundry
Permit Number: 10-TV-002R2-M001

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: 07/01/2021
Ending on: 06/30/2026

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 or a building, its appurtenances or a construction haul road to be
used, constructed, altered, repaired or demolished, with the exception of farming operations or
dust generated by ordinary travel on unpaved roads. Ordinary travel includes routine traffic and
road maintenance activities such as scarifying, compacting, transporting road maintenance
surfacing material, and scraping of the unpaved public road surface. (the preceding sentence is
State Only) All persons, with the above exceptions, shall take reasonable precautions to prevent
the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which
the emissions originate. The public highway authority shall be responsible for taking corrective
action in those cases where said authority has received complaints of or has actual knowledge of
dust conditions which require abatement pursuant to this subrule. Reasonable precautions may
include, but not be limited to, the following procedures.

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

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

Additional Emission Limits: Facility-Wide

For each building or structure housing any iron and steel foundry emissions source at the iron
and steel foundry, you must not discharge any fugitive emissions to the atmosphere from foundry
operations that exhibit opacity greater than 20 percent (6-minute average), except for one 6-
minute average per hour that does not exceed 27 percent opacity.

Authority for Requirement: 40 CFR 63.7690(a)(7)

Facility Periodic Opacity Monitoring

Clow Valve shall have a certified smoke reader conduct a standard EPA Method 9 observation
for emissions in the building housing the iron and steel foundry no less frequently than once
every 6 months.

Authority for Requirement: 40 CFR 63.7731(b)
567 IAC 22.108(14)
**NESHAP**

Several sources from the Iron Foundry are subject to National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart EEEEE-"National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries" as specified in 40 CFR §63.7680 through 40 CFR §63.7765 and Subpart A-General Provisions as specified in 40 CFR §63.7760. Clow Valve Company must comply with each emission limitation, work practice standard, and operation and maintenance requirement in Subpart EEEEE that applies to Clow Valve Company. Applicable Subpart EEEEE requirements are incorporated into the Emission–Point Specific Conditions Section.

Authority for Requirement: 40 CFR Part 63 Subpart EEEE
567 IAC 23.1(3)"de"
III. Emission Point-Specific Conditions

Facility Name: Clow Valve Company-Plant 1 Foundry
Permit Number: 10-TV-002R2-M001

Emission Point ID Number: EP-002

Associated Equipment
Associated Emission Unit ID Numbers: See Table: Induction Melting Furnaces
Emissions Control Equipment ID Number: See Table: Induction Melting Furnaces
Emissions Control Equipment Description: See Table: Induction Melting Furnaces

Table: Induction Melting Furnaces

<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</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-002</td>
<td>EU-042</td>
<td>Induction Melting Furnaces</td>
<td>CE-002</td>
<td>Baghouse</td>
<td>Scrap Iron &amp; Steel</td>
<td>6,000 kW, 14 ton iron/hour</td>
</tr>
<tr>
<td></td>
<td>EU-043</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Applicable Requirements

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

Table: Electric Arc Furnaces-Emission Limits

<table>
<thead>
<tr>
<th>Emission Point Number</th>
<th>Associated Emission Unit Number</th>
<th>Opacity Limit 567 IAC 23.3(2) 목</th>
<th>PM Limit (gr/dscf) 40 CFR 63.7690(a)(1) 567 IAC 23.1(4) 목</th>
<th>PM10 Limit (lb/hr)</th>
<th>Total Metal HAP(2) (gr/dscf) 40 CFR 63.7690(a)(1) 567 IAC 23.3(2) 목</th>
<th>Authority for Requirement (Construction Permit Number)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-002</td>
<td>EU-042</td>
<td>40% (1)</td>
<td>0.005 (2)</td>
<td>1.37</td>
<td>0.0004 (2)</td>
<td>05-A-877-S3</td>
</tr>
<tr>
<td></td>
<td>EU-043</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

(2) The emissions source shall comply with either the emission limit for PM or the emission limit for Total Metal HAPs per §63.7690(a)(1).
Table: Additional Emission Limits

<table>
<thead>
<tr>
<th>Emission Point Number</th>
<th>Opacity Limit</th>
<th>Authority for Requirement (Construction Permit Number)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fugitive Building</td>
<td>20% (3)</td>
<td>05-A-877-S3</td>
</tr>
</tbody>
</table>

(3) Emission limit for fugitive emissions to atmosphere from a building or structure housing any iron and steel foundry emissions source, except for one 6-minute average per hour that does not exceed 27% opacity, as specified in NESHAP Subpart EEEEE §63.7690(a)(7).

**Operational Limits & Requirements**

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

**Operating Limits:**

1. Induction Melting Furnaces (EU-042 and EU-043) are limited to processing a total of 46,600 tons of iron per rolling 12-month period.
2. Emissions from the Induction Melting Furnaces (EU-042 and EU-043) may be controlled by either CE-001 or CE-002. The owner or operator shall not vent emissions through CE-001 and CE-002 simultaneously.
3. As specified in §63.7700, Clow Valve Company must comply with the certification requirements in paragraph (b) of §63.7700 or prepare and implement a plan for the selection and inspection of scrap according to the requirements in paragraph (c) of §63.7700.
4. As specified in §63.7710(b), Clow Valve Company must prepare and operate at all times according to a written operation and maintenance plan for each capture and collection system and control device an emissions source subject to an emission limit in §63.7690(a). Which includes but is not limited to the following:
   a) As specified in §63.7710(b)(3), Preventative maintenance plan for Baghouse (CE-002), including a preventative maintenance schedule that is consistent with the manufacturer’s instructions and for routine and long-term maintenance.
   b) As specified in §63.7710(b)(4), A site-specific monitoring plan for each bag leak detection system. The owner and operator shall operate and maintain the bag leak detection system according to the site-specific monitoring plan at all times. The plan must address all the items identified in paragraphs (b)(4)(i) through (v) of §63.7710(b)(4).
   c) As specified in §63.7710(b)(5), Corrective action plan for Baghouse (CE-002). The plan must include the requirement that, in event a bag leak detection system alarm is triggered, Clow Valve Company must initiate corrective action to determine the cause of the alarm within 1 hour of the alarm, initiate corrective action to correct the cause of the problem within 24 hours of the alarm, and complete the corrective action as soon practicable.
5. As specified in §63.7741(b), Clow Valve Company must install, operate, and maintain a bag leak detection system according to the requirements in paragraphs (b)(1) through (7) of §63.7741(b).
6. As specified in §63.7740(b), Clow Valve Company must at all times monitor the relative change in PM loading using a bag leak detection system according to the requirements in §63.7741(b) and conduct inspections according to the requirements specified in (b)(1) through (8) of §63.7740(b). Requirements of (b)(1) through (8) of §63.7740(b) are specified below:
   a) As specified in §63.7740(b)(1), Monitor the pressure drop across each cell of Baghouse (CE-002) each day of operation to ensure pressure drop is in normal operating range identified in manual.
   b) As specified in §63.7740(b)(2), Confirm that dust is being removed from hoppers through weekly visual inspections or other means of ensuring the proper functioning of removal mechanisms.
   c) As specified in §63.7740(b)(3), Check compressed air supply for pulse-jet baghouses each day of operation.
   d) As specified in §63.7740(b)(4), Monitor cleaning cycles to ensure proper operation using appropriate methodology.
   e) As specified in §63.7740(b)(5), Check bag cleaning mechanisms for proper functioning through monthly visual inspection or equivalent means.
   f) As specified in §63.7740(b)(6), Make monthly visual checks of bag tension on reverse air and shaker-type baghouses to ensure that bags are not kinked (kneel or bent) or lying on their sides.
   g) As specified in §63.7740(b)(7), Confirm the physical integrity of Baghouse (CE-002) through quarterly visual inspections of Baghouse (CE-002) interior for air leaks.
   h) As specified in §63.7740(b)(8), Inspect fans for wear, material buildup, and corrosion through quarterly visual inspections, vibration detectors, or equivalent means.

7. As specified in §63.7743(c)(2), inspect and maintain Baghouse (CE-002) according to the requirements of §63.7740(b)(1) through (8) and recording all information needed to document conformance with these requirements.

Reporting and Record keeping:
1. Record on a monthly basis, the total amount of iron processed in Induction Melting Furnaces (EU-042 and EU-043) in tons. Calculate and record rolling 12-month totals.
2. Record on a monthly basis the amount of hours that CE-001 is used as an emission control for the Induction Melting Furnaces (EU-042 and EU-043). Calculate and record rolling 12-month totals.
3. As specified in §63.7743(c)(1), maintain records of the times the bag leak detection system alarm sounded, and for each valid alarm, the time owner/operator initiate corrective action, the corrective action taken, and the date on which corrective action was completed.
4. As specified in §63.7744, Clow Valve Company must maintain records that document continuous compliance with certification requirements in §63.7700(b) or with procedures in scrap selection and inspection plan required in 63.7700(c). Records documenting compliance with the scrap selection and inspection plan must include a copy (kept onsite) of the procedures used by scrap supplier for either removing accessible mercury switches or for purchasing automobile bodies that have had mercury switches removed, as applicable.
5. As specified in 63.7745(a)(2), Record all information needed to document conformance with preventive maintenance plan required by §63.7710(b)(3).
6. As specified in 63.7745(a)(3), Record all information needed to document conformance with site specific monitoring plan required by §63.7710(b)(4).
7. As specified in 63.7745(a)(4), Record all information needed to document conformance with corrective action plan required by §63.7710(b)(5).
8. As specified §63.7752(a), Clow Valve Company must keep the records specified in paragraphs (a)(1) through (4) of §63.7752(a).
9. As specified in §63.7752(c), Clow Valve Company must keep records required by §§63.7743, 63.7744, and 63.7745 to show continuous compliance with each emission limitation, work practice standard, and operation and maintenance requirement that applies.

Authority for Requirement: 40 CFR 63 Subpart EEEE
567 IAC 23.1(4)"de"
DNR Construction Permits 05-A-877-S3

**NESHAP Applicability**

Induction Melting Furnaces EU-042 and EU-043 are subject to National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart EEEE-National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries as specified in 40 CFR Part 63 §63.7681. Clow Valve Company must comply with each emission limitation, work practice standard, and operation and maintenance requirement in Subpart EEEE that applies to Clow Valve Company. The Induction Melting Furnaces are also subject to National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart A-General Provisions as specified in 40 CFR Part 63 §63.7760 (Table 1).

Authority for Requirement: 40 CFR 63 Subpart EEEE
567 IAC 23.1(4)"de"

**Emission Point Characteristics**

These emission points shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 55
Stack Opening, (inches, dia.): 48
Exhaust Flow Rate (scfm): 32,000
Exhaust Temperature (°F): 120
Discharge Style: Vertical Unobstructed Discharge

Authority for Requirement: DNR Construction Permits 05-A-877-S3

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

**Stack Testing:**

Pollutant – Opacity (fugitive building)(2)
Stack Test to be Completed by – No less frequently than every six (6) months with the most recent test conducted 03/09/21
Test Method – 40 CFR 60 Appendix A Method 9
Authority for Requirement – DNR Construction Permit 05-A-877-S3, 40 CFR 63.7731(a)

Pollutant - Particulate Matter(1)
Stack Test to be Completed by – No less frequently than every five (5) years with the most recent test conducted 03/12/19
Test Method – 40 CFR 60 Appendix A Method 5
Authority for Requirement – 05-A-877-S3, 40 CFR 63.7731(a)

Pollutant – Total Metal HAP(1)
Stack Test to be Completed by – No less frequently than every five (5) years with the most recent test conducted 03/12/19
Test Method – 40 CFR 60 Appendix A Method 29
Authority for Requirement – 05-A-877-S3, 40 CFR 63.7731(a)

(1) As required by §63.7731, Clow Valve Company must conduct subsequent performance tests to demonstrate compliance with all applicable PM or Total Metal HAP emission limitations.

(2) Required if CE-001 is used for control of induction melting furnaces (EU-042 and EU-043) more than 50 hours per twelve month rolling period. If CE-001 is used more than 50 hours in any twelve month rolling period, Clow Valve Company must conduct performance tests (initial and subsequent) according to the frequency specified in this Compliance Demonstration Table.

**Agency Approved Operation & Maintenance Plan Required?**

Yes ☐  No ☒

**Facility Maintained Operation & Maintenance Plan Required?**

Yes ☐  No ☒

**Compliance Assurance Monitoring (CAM) Plan Required?**

Yes ☐  No ☒

Compliance with 40 CFR 63 Subpart EEEEE requirements constitutes compliance demonstration. Therefore no CAM plan is needed for these units at this time.

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: EP-010

Associated Equipment

Associated Emission Unit ID Numbers: See Table: Iron Shotblasting
Emissions Control Equipment ID Number: See Table: Iron Shotblasting
Emissions Control Equipment Description: See Table: Iron Shotblasting

Table: Iron Shotblasting

<table>
<thead>
<tr>
<th>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</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU-008A</td>
<td>Iron Shotblasting</td>
<td></td>
<td></td>
<td>Raw Castings</td>
<td>6,000 lb/load</td>
</tr>
<tr>
<td>EU-008B</td>
<td>Iron Shotblasting</td>
<td>CE-010</td>
<td>Baghouse</td>
<td>Raw Castings</td>
<td>6,000 lb/load</td>
</tr>
<tr>
<td>EU-010</td>
<td>12 Grinding Stations</td>
<td></td>
<td></td>
<td>Iron</td>
<td>13.5 tons/hr</td>
</tr>
<tr>
<td>EU-010B</td>
<td>Touch-Up Wire Welding</td>
<td></td>
<td></td>
<td>Wire</td>
<td>17.8 m/min</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% \(^{(1)}\)
Authority for Requirement: 567 IAC 23.3(2)”d”
DNR Construction Permit 06-A-400-S7

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

Pollutant: PM\(_{10}\)
Emission Limit(s): 1.34 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-400-S7

Pollutant: Particulate Matter
Emission Limit(s): 1.34 lb/hr
Authority for Requirement: DNR Construction Permit 06-A-400-S7

Pollutant: Particulate Matter
Emission Limit(s): 0.05 gr/dscf
Authority for Requirement: 567 IAC 23.4(6)
DNR Construction Permit 06-A-400-S7
Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:
1. The hourly average production rate of the Iron Shot Blasting emission units (EU-008A and EU-008B) shall not exceed 5.0 tons per hour per emission unit.
2. The maximum average hourly metal throughput for the 12 Grinding Stations (EU-010) shall not exceed 13.5 tons of metal per hour calculated on a daily basis.
3. The maximum electrode usage of the touch-up welding unit shall not exceed 500 pounds per year.

Control equipment parameters:
1. The baghouse shall be maintained in accordance with the manufacturer’s recommendations and schedule.

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 owner or operator shall keep the following daily records for the Iron Shot Blasting emission units (EU-008A and EU-008B) and the 12 Grinding Stations (EU-010):
   a. The number of hours each unit operated.
   b. The total amount of metal processed (i.e., tons) per unit.
   c. No later than 7 days after the end of each month, the owner or operator calculate the daily average production rate in tons per hour for each day of the previous month. The daily average production rate shall be calculated by dividing the total amount of metal processed by this unit for a given day by the number of hours the unit operated for that day.
2. The owner or operator shall maintain a record of all inspections of the control equipment (CE-010). The owner or operator shall document the results of the inspections and note any repairs that were the result of the inspections.
3. The owner or operator shall keep record of electrode usage of the touch-up welding unit on a 12-month rolling basis.

Authority for Requirement: DNR Construction Permit 06-A-400-S7

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

Stack Height, (ft, from the ground): 57
Stack Opening, (inches, dia.): 53
Exhaust Flow Rate (scfm): 28,000 - 63,000
Exhaust Temperature (°F): 85
Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 06-A-400-S7
The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that 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)

**Associated Equipment**
Associated Emission Unit ID Numbers: See Table: Iron Sand Systems
Emissions Control Equipment ID Number: See Table: Iron Sand Systems
Emissions Control Equipment Description: See Table: Iron Sand Systems

---

**Table: Iron Sand Systems**

<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 (tons in system/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-009</td>
<td>EU-009A Sand Handling Muller</td>
<td></td>
<td>CE-09</td>
<td>Baghouse</td>
<td>Sand, Chemicals</td>
<td>140</td>
</tr>
<tr>
<td></td>
<td>EU-009B Sand Handling Muller</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EU-009C Return Sand Elevator (North)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EU-009E Iron Sand Day Tank</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>EU-011C Return Sand Elevator (South)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EU-011D Punchout</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td></td>
<td>EU-011E Didion</td>
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<td></td>
</tr>
</tbody>
</table>

**Applicable Requirements**

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

**Table: Iron Sand Systems-Emission Limits**

<table>
<thead>
<tr>
<th>Emission Point Number</th>
<th>Associated Emission Unit Number</th>
<th>Opacity Limit 567 IAC 23.3(2)&quot;d&quot;</th>
<th>PM Limit (lb/hr)</th>
<th>PM10 Limit (lb/hr)</th>
<th>Authority for Requirement (Construction Permit Number)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-009</td>
<td>EU-009A</td>
<td>40%(^{(1)})</td>
<td>0.38</td>
<td>0.38</td>
<td>04-A-956-S3</td>
</tr>
<tr>
<td></td>
<td>EU-009B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EU-009C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EU-009E</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EP-011</td>
<td>EU-011B</td>
<td>40%(^{(1)})</td>
<td>2.10</td>
<td>2.10</td>
<td>96-A-561-S3</td>
</tr>
<tr>
<td></td>
<td>EU-011C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EU-011D</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EU-011E</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
An exceedance of the indicator opacity of “no visible emissions” will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a"
DNR Construction Permits specified in Table: Iron Sand Systems-Emission Limits

**Operational Limits & Requirements**

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

Process throughput:
1. The maximum sand throughput for each system shall not exceed 90 tons of sand per hour.

Control equipment parameters:
1. The baghouses shall be maintained in accordance with the manufacturer’s recommendations and schedule.

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. Maintain a copy of the baghouse manufacturer’s recommendation for the maintenance schedule for the baghouse.
2. Maintain a log of all maintenance activities on the baghouses.
3. At the end of each day, record the total amount of sand processed at each sand system during the working day.
4. At the end of each day, record the number of hours each sand system operated during the working day.
5. No later than seven days after the end of each month, calculate the daily average sand processing rate, in tons per hour, for each day of the previous month by dividing the total amount of sand processed by this system for a given day by the number of hours the unit operated during that day.

Authority for Requirement: DNR Construction Permits specified in Table: Iron Sand Systems-Emission Limits
**Emission Point Characteristics**  
*These emission points shall conform to the specifications listed below.*

**Table: Iron Sand Systems – Emission Point Characteristics**

<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-009</td>
<td>EU-009A</td>
<td>04-A-956-S3</td>
<td>40</td>
<td>50</td>
<td>40,150</td>
<td>70</td>
<td>Vertical Unobstructed</td>
</tr>
<tr>
<td></td>
<td>EU-009B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td>EU-009C</td>
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<td></td>
<td>EU-009E</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>EP-011</td>
<td>EU-011B</td>
<td>96-A-561-S3</td>
<td>40</td>
<td>54</td>
<td>52,000</td>
<td>100</td>
<td>Vertical Unobstructed</td>
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<tr>
<td></td>
<td>EU-011C</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EU-011D</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EU-011E</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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-011F-F

Associated Equipment
Associated Emission Unit ID Numbers: See Table: Side Floor Mold Making

Table: Side Floor Mold Making

<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 (lb/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-011F-F</td>
<td>EU-011-F(PM)</td>
<td>Side Floor Molding (Particulate Emissions)</td>
<td>Iron</td>
<td>595</td>
</tr>
<tr>
<td></td>
<td>EU-011-F(VOC)</td>
<td>Side Floor Molding (VOC Emissions)</td>
<td>Isopropyl Alcohol</td>
<td>0.21</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 Limit(s): 40%
Authority for Requirement: 567 IAC 23.3(2)”d”

Pollutant: Particulate Matter
Emission Limit(s): 1.82 lb/hr
Authority for Requirement: 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.

There are no limits or requirements at this time.

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

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

Authority for Requirement: 567 IAC 22.108(3)

Associated Equipment
Associated Emission Unit ID Numbers: See Table: Mold Pouring and Cooling (Iron)

Table: Mold Pouring and Cooling (Iron)

<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 (tons/hr)</th>
<th>Construction Permit No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-022B</td>
<td>EU-022B</td>
<td>Side Floor Mold Pouring Into Green Sand Molds and Cooling</td>
<td>Molten Iron</td>
<td>0.43</td>
<td>N/A</td>
</tr>
<tr>
<td>EP-022B-F</td>
<td>EU-022B(PUNB)</td>
<td>Side Floor Mold Pouring Into No Bake Molds and Cooling</td>
<td>Molten Iron</td>
<td>0.13</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>EU-022B(PUNB)-HAP</td>
<td>Side Floor Mold Pouring Into No Bake Molds and Cooling</td>
<td>Resin</td>
<td>0.02</td>
<td></td>
</tr>
</tbody>
</table>

Applicable Requirements

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


Pollutant: Opacity
Emission Limit(s): 40%<sup>(1)</sup>
Authority for Requirement: 567 IAC 23.3(2)”d”
DNR Construction Permits specified in Table: Mold Pouring and Cooling (Iron)

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

Pollutant: PM<sub>10</sub>
Emission Limit(s): 1.0 lb./hr
Authority for Requirement: DNR Construction Permits specified in Table: Mold Pouring and Cooling (Iron)
Pollutant: Particulate Matter (State)
Emission Limit(s): 1.0 lb/hr (for each emission point)
Authority for Requirement: DNR Construction Permits specified in Table: Mold Pouring and Cooling (Iron)

Pollutant: Particulate Matter (State)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a"
DNR Construction Permits specified in Table: Mold Pouring and Cooling (Iron)

Pollutant: Particulate Matter (Federal)
Emission Limit(s): 0.010 gr/dscf (2)
Authority for Requirement: 40 CFR 63.7690(a)(5)
567 IAC 23.1(4)"de"

(2) Either 0.010 gr/dscf PM or 0.0008 gr/dscf of total metal HAP. (Ref 40 CFR §63.7690(a)(5)).

Pollutant: Sulfur Dioxide (SO$_2$)
Emission Limit(s): 0.22 lb/hr$^{(3)}$
Authority for Requirement: DNR Construction Permits specified in Table: Mold Pouring and Cooling (Iron)

Pollutant: Nitrogen Oxides (NOX)
Emission Limits: 0.07 lb./hr$^{(3)}$
Authority for Requirement: DNR Construction Permits specified in Table: Mold Pouring and Cooling (Iron)

Pollutant: Carbon Monoxide (CO)
Emission Limits: 4.5 lb./ton$^{(3)}$
Authority for Requirement: DNR Construction Permits specified in Table: Mold Pouring and Cooling (Iron)


For EP-022B-F only.
Pollutant: Opacity
Emission Limit(s): 40%
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 2.78 lb/hr
Authority for Requirement: 567 IAC 23.3(2)"a"
NESHAP Applicability

These units are subject to National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart EEEEE-National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries as specified in 40 CFR Part 63 §63.7681 and to National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart A-General Provisions as specified in 40 CFR Part 63 §63.7760 (Table 1).

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

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

1. The maximum amount of iron poured in this system shall not exceed 11.0 tons of iron per hour.
2. The total amount of iron poured in the mold pouring area (EP-022A, EP-022B and EP-022C) shall not exceed 46,600 tons of iron per twelve (12) month period rolled monthly.
3. At the end of each day, record the total amount of iron poured during that working day.
4. At the end of each day, record the number of hours the iron pouring system operated during that working day.
5. No later than 7 days after the end of each month, calculate the daily average hourly iron processing rate, in tons per day, for each day of the previous month by dividing the total amount of iron poured during a given day by the number of hours the system operated during that day.
6. At the end of each month, record the amount of iron poured over the previous month.
7. At the end of each month, record the amount of iron poured over the previous twelve (12) months.
8. The owner or operator shall follow the applicable work practice standards and operating requirements of 40 CFR §63.7700 through §63.7720.
9. The owner or operator shall follow the applicable notification, reporting, and recordkeeping requirements of 40 CFR §63.7750 through §63.7753.

Authority for Requirement: DNR Construction Permits specified in Table: Mold Pouring and Cooling (Iron)


These emission points shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 39.6
Stack Opening, (inches, dia.): 49.88
Exhaust Flow Rate (scfm): 31,000
Exhaust Temperature (°F): 70
Discharge Style: Vertical Unobstructed  
Authority for Requirement: DNR Construction Permits specified in Table: Mold Pouring and Cooling (Iron)  
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.*

**Stack Testing:**  
Pollutant - Particulate Matter (Federal)  
Stack Test to be Completed by (date) – November 15, 2021 and no less frequently than every five (5) years thereafter  
Test Method – 40 CFR 60 Appendix A Method 5  
Authority for Requirement – 40 CFR 63.7731(a)

**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 this 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-037

Associated Equipment

Associated Emission Unit ID Numbers: See Table: Holding Furnaces and Ductile Treatment
Emissions Control Equipment ID Number: See Table: Holding Furnaces and Ductile Treatment
Emissions Control Equipment Description: See Table: Holding Furnaces and Ductile Treatment

Table: Holding Furnaces and Ductile Treatment

<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 (tons/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-037</td>
<td>EU-021</td>
<td>West Holding Furnace</td>
<td>CE-037</td>
<td>Baghouse</td>
<td>Casting</td>
<td>61.0</td>
</tr>
<tr>
<td></td>
<td>EU-023</td>
<td>East Holding Furnace</td>
<td></td>
<td></td>
<td>Casting</td>
<td>35.0</td>
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<tr>
<td></td>
<td>EU-HMT</td>
<td>Hot Melt Transfer</td>
<td></td>
<td></td>
<td>Casting</td>
<td>9.6</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 Limit(s): 40%\(^{(1)}\)
Authority for Requirement: 567 IAC 23.3(2)"d"
DNR Construction Permit 08-A-250-S1

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

Pollutant: PM\(_{10}\)
Emission Limit(s): 0.75 lb/hr
Authority for Requirement: DNR Construction Permit 08-A-250-S1

Pollutant: Particulate Matter
Emission Limit(s): 0.75 lb/hr
Authority for Requirement: DNR Construction Permit 08-A-250-S1

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a"
DNR Construction Permit 08-A-250-S1
Operational Limits & Requirements

Control equipment parameters:
1. The baghouse shall be maintained in accordance with the manufacturer’s recommendations and schedule.

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. Maintain a copy of the baghouse manufacturer’s recommendation for the maintenance schedule for the baghouse.
2. Maintain a log of all maintenance activities on the baghouse.

Authority for Requirement: DNR Construction Permit 08-A-250-S1

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

Stack Height, (ft, from the ground): 55
Stack Opening, (inches, dia.): 39
Exhaust Flow Rate (scfm): 35,715
Exhaust Temperature (°F): 85
Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 08-A-250-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 this 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: 046

Associated Equipment

Associated Emission Unit ID Numbers: See Table: EP 046 Emission Units
Emissions Control Equipment ID Number: CE-046
Emissions Control Equipment Description: Baghouse

Table. EP 046 Emission Units

<table>
<thead>
<tr>
<th>EU ID</th>
<th>Description</th>
<th>Maximum Rated Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU-046A</td>
<td>Return Sand Tunnel</td>
<td></td>
</tr>
<tr>
<td>EU-046B</td>
<td>Return Sand Transfer Belt (additional pickups)</td>
<td>140 tons/hour</td>
</tr>
<tr>
<td>EU-046C</td>
<td>Core Separator Handling</td>
<td></td>
</tr>
</tbody>
</table>

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 40%¹
Authority for Requirement: DNR Construction Permit 20-A-018-S1 567 IAC 23.3(2)“d”

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

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 20-A-018-S1 567 IAC 23.3(2)”a”

Pollutant: Particulate Matter (PM)
Emission Limit(s): 2.10 lb/hr²
Authority for Requirement: DNR Construction Permit 20-A-018-S1

² Limit set in project 19-426 to limit the potential-to-emit. PM is assumed to be equal to PM10 and PM2.5.
Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operational Limits:
1. The baghouse differential pressure drop shall be maintained between 1 to 6 inches water column.
   a) The owner or operator shall properly operate and maintain equipment to periodically monitor the differential pressure drop across the baghouse. The monitoring devices and any recorders shall be installed, calibrated, operated, and maintained in accordance with the manufacturer’s recommendations, instructions, and operating manuals.
2. The baghouse shall be maintained in accordance with the manufacturer’s recommendations, including routine and long-term maintenance.
   a) Maintain a copy of the baghouse manufacturer’s recommendation for the maintenance schedule for the baghouse.
3. The maximum sand throughput of this system shall not exceed 90 tons of sand per hour.
4. No later than 7 days after the end of each month, calculate the daily average sand processing rate, in tons per hour, by dividing the total amount of sand processed by the number of hours.

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 Department. Records shall be legible and maintained in an orderly manner.
1. The owner or operator shall collect and record the pressure drop across the baghouse, in inches of water, once per calendar day. If the pressure drop across the baghouse falls outside the range specified in Condition 5A (1.a) above), the owner or operator shall investigate the baghouse and make corrections to it. The owner or operator shall maintain a record of all corrective actions taken. This requirement shall not apply on the days that the baghouse is not in operation.
2. The owner or operator shall maintain a record of all inspections and maintenance and any action resulting from the inspection and maintenance of the control equipment.
3. At the end of each day, record the total amount of sand processed during that working day.
4. At the end of each day, record the number of hours the sand system operated during that working day.
5. No later than 7 days after the end of each month, calculate the daily average sand processing rate, in tons per hour, by dividing the total amount of sand processed by the number of hours

Authority for Requirement: DNR Construction Permit 20-A-018-S1
**Emission Point Characteristics**
*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 50  
Stack Opening, (inches, dia.): 48  
Exhaust Flow Rate (scfm): 48,000  
Exhaust Temperature (°F): Ambient  
Discharge Style: Vertical unobstructed  
Authority for Requirement: DNR Construction Permit 20-A-018-S1

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

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

**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-013

Associated Equipment
Associated Emission Unit ID Numbers: See Table: Brass Shotblasting and Cutoff
Emissions Control Equipment ID Number: See Table: Brass Shotblasting and Cutoff
Emissions Control Equipment Description: See Table: Brass Shotblasting and Cutoff

Table: Brass Shotblasting and Cutoff

<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</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-013</td>
<td>EU-013C</td>
<td>Shotblast</td>
<td>CE-013</td>
<td>Baghouse</td>
<td>Castings</td>
<td>9.8 tons/hr</td>
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<tr>
<td></td>
<td>EU-013A</td>
<td>Robotic Brass Cutoff Saw</td>
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<td></td>
<td></td>
<td>20 tons/hr</td>
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<tr>
<td></td>
<td>EU-013B</td>
<td>Manual Brass Cutoff Saw</td>
<td></td>
<td></td>
<td></td>
<td>20 tons/hr</td>
</tr>
<tr>
<td></td>
<td>EU-013C</td>
<td>Side Grinding</td>
<td></td>
<td></td>
<td></td>
<td>20 tons/hr</td>
</tr>
</tbody>
</table>

Applicable Requirements

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

Table: Brass Shotblasting and Cutoff

<table>
<thead>
<tr>
<th>Emission Point Number</th>
<th>Associated Emission Unit Number</th>
<th>Opacity Limit 567 IAC 23.3(2)&quot;d&quot;</th>
<th>PM Limit (lb/hr)</th>
<th>PM10 Limit (lb/hr)</th>
<th>PM2.5 Limit (lb/hr)</th>
<th>Pb Limit (lb/hr)</th>
<th>Authority for Requirement (Construction Permit Number)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-013</td>
<td>EU-013C</td>
<td>40% (1)</td>
<td>0.60</td>
<td>0.60</td>
<td>0.60</td>
<td>0.01</td>
<td>98-A-627-S5</td>
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<tr>
<td></td>
<td>EU-013A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EU-013B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a"
DNR Construction Permit 98-A-627-S5
**Operational Limits & Requirements**

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

Process throughput:
1. The owner or operator shall not exceed 9.8 tons of brass processed per hour through this system.

Control equipment parameters:
1. The owner or operator shall maintain the baghouse in accordance with the manufacturer’s recommendations and schedule.

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 owner or operator shall maintain a record of:
   a. The total amount of brass processed during each working day.
   b. The number of hours the system operated during each working day.
   c. No later than 7 days after the end of each month, calculate the daily average brass processing rate, in tons per hour for each day of the previous month by dividing the total amount of brass processed by this system for a given day by the number of hours the unit operated during that day.

2. The owner or operator shall maintain a copy of the baghouse manufacturer’s recommendation for the maintenance schedule for the baghouse.

3. The owner or operator shall maintain a log of all maintenance activities on the baghouse.

**Authority for Requirement:** DNR Construction Permit 98-A-627-S5

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 30
Stack Opening, (inches, dia.): 23.5 x 26.5
Exhaust Flow Rate (scfm): 10,000
Exhaust Temperature (°F): Ambient (70)
Discharge Style: Vertical Unobstructed

**Authority for Requirement:** DNR Construction Permit 98-A-627-S5

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that 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 this 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-024

Associated Equipment
Associated Emission Unit ID Numbers: See Table: Brass Sand System
Emissions Control Equipment ID Number: See Table: Brass Sand System
Emissions Control Equipment Description: See Table: Brass Sand System

Table: Brass Sand System

<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</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-024</td>
<td>EU-024A</td>
<td>Brass Sand Muller</td>
<td>CE-024</td>
<td>Baghouse</td>
<td>Sand, Chemicals</td>
<td>70 tons in system/hr</td>
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<tr>
<td></td>
<td>EU-024B</td>
<td>Side Floor Shakeout</td>
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<td></td>
<td>EU-024D</td>
<td>Didion</td>
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<td></td>
<td>EU-024E</td>
<td>Return Sand Conveyor</td>
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<td></td>
<td>EU-024F</td>
<td>Triple Screen</td>
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<td></td>
<td>EU-024H</td>
<td>Mold Machine Vent</td>
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</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%\(^{(1)}\)
Authority for Requirement: 567 IAC 23.3(2)”d”
DNR Construction Permit 94-A-502-S5

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

Pollutant: PM\(_{10}\)
Emission Limit(s): 0.92 lb/hr

Pollutant: Particulate Matter
Emission Limit(s): 0.92 lb/hr
Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

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

A. The maximum sand throughput of this system shall not exceed 64.8 tons of sand per hour.
   i. At the end of each day, record the total amount of sand processed during that working day.
   ii. At the end of each day, record the number of hours the sand system operated during that working day.
   iii. No later than 7 days after the end of each month, calculate the daily average sand processing rate, in tons per hour, for each day of the previous month by dividing the total amount of sand processed by the sand system for a given day by the number of hours the sand system operated during that day.

B. The control equipment, CE-024, shall be operated and maintained according to the manufacturer’s specification with inspections occurring at a minimum of once per calendar year.

C. The facility shall maintain a log of all maintenance and inspection activities performed on
the control equipment, CE-024. This log shall include, but is not limited to.

i. The date and time any inspection and/or maintenance was performed on the emission
unit and/or control equipment;

ii. Any issue(s) identified during the inspection and the date each issue(s) was resolved;

and,

iii. Any issue(s) addressed during the maintenance activities and the date each issue(s) was
resolved.


**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 40  
Stack Opening, (inches, dia.): 54  
Exhaust Flow Rate (scfm): 55,000  
Exhaust Temperature (°F): Ambient (70)  
Discharge Style: Vertical Unobstructed


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>

Authority for Requirement: 567 IAC 22.108(3)
Emission Point ID Number: EP-032

Associated Equipment
Associated Emission Unit ID Numbers: See Table: Electric Induction Furnaces
Emissions Control Equipment ID Number: See Table: Electric Induction Furnaces
Emissions Control Equipment Description: See Table: Electric Induction Furnaces

Table: Electric Induction Furnaces

<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</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-032</td>
<td>EU-032A</td>
<td>Electric Induction Furnace A</td>
<td>CE-032</td>
<td>Baghouse</td>
<td>Molten Brass</td>
<td>2.1 tons/hr per furnace (design), 6.3 tons/hr total (electric usage)</td>
</tr>
<tr>
<td></td>
<td>EU-032B</td>
<td>Electric Induction Furnace B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EU-032C</td>
<td>Electric Induction Furnace C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EU-032D</td>
<td>Electric Induction Furnace D</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EU-0032E</td>
<td>South Pour Line</td>
<td></td>
<td></td>
<td></td>
<td>6.3 tons/hr</td>
</tr>
<tr>
<td></td>
<td>EU-0032F</td>
<td>Production Heater</td>
<td></td>
<td></td>
<td></td>
<td>750,000 Btu/hr</td>
</tr>
<tr>
<td></td>
<td>EU-0032G</td>
<td>Production Heater (dual)</td>
<td></td>
<td></td>
<td></td>
<td>1,500,000 Btu/hr</td>
</tr>
</tbody>
</table>

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 40%\(^{(1)}\)
Authority for Requirement: 567 IAC 23.3(2)"d"
DNR Construction Permit 98-A-628-S6

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

Pollutant: PM\(_{10}\)
Emission Limit(s): 1.63 lb/hr
Authority for Requirement: DNR Construction Permit 98-A-628-S6
Pollutant: Particulate Matter  
Emission Limit(s): 1.63 lb/hr  
Authority for Requirement: DNR Construction Permit 98-A-628-S6

Pollutant: Particulate Matter  
Emission Limit(s): 0.1 gr/dscf  
Authority for Requirement: 567 IAC 23.4(5)  
DNR Construction Permit 98-A-628-S6

Pollutant: Sulfur Dioxide (SO\textsubscript{2})  
Emission Limit(s): 0.16 lb/hr  
Authority for Requirement: DNR Construction Permit 98-A-628-S6

Pollutant: Nitrogen Oxides (NO\textsubscript{x})  
Emission Limits: 0.05 lb/hr  
Authority for Requirement: DNR Construction Permit 98-A-628-S6

Pollutant: Volatile Organic Compounds (VOC)  
Emission Limits: 9.15 lb/hr  
Authority for Requirement: DNR Construction Permit 98-A-628-S6

Pollutant: Carbon Monoxide (CO)  
Emission Limits: 5.95 lb/hr  
Authority for Requirement: DNR Construction Permit 98-A-628-S6

Pollutant: Lead (Pb)  
Emission Limit(s): 0.18 lb/hr  
Authority for Requirement: DNR Construction Permit 98-A-628-S6

**Operational Limits & Requirements**

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

Process throughput:
1. The maximum brass throughput of this system shall not exceed 6.3 tons of brass per hour

Control equipment parameters:
1. The control equipment, CE-032, shall be operated and maintained according to the manufacturer’s recommendations with inspections occurring at a minimum of once per calendar year.

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. At the end of each day, record the total amount of brass poured on the South Pour Line during that working day.

2. At the end of each day, record the number of hours the South Pour Line operated during that working day.

3. No later than 7 days after the end of each month, calculate the daily average brass processing rate, in tons per hour, for each day of the previous month by dividing the total amount of brass poured by the pour line for a given day by the number of hours the pour line operated during that day.

4. The facility shall maintain a log of all maintenance and inspection activities performed on the control equipment, CE-032. This log shall include, but is not limited to:
   A. The date and time any inspection and/or maintenance was performed on the emission unit and/or control equipment;
   B. Any issue(s) identified during the inspection and the date each issue(s) was resolved; and,
   C. Any issue(s) addressed during the maintenance activities and the date each issue(s) was resolved.

**Authority for Requirement:** DNR Construction Permit 98-A-628-S6

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

- Stack Height, (ft, from the ground): 40
- Stack Opening, (inches, dia.): 54
- Exhaust Flow Rate (scfm): 53,000
- Exhaust Temperature (°F): 90
- Discharge Style: Vertical Unobstructed

**Authority for Requirement:** DNR Construction Permit 98-A-628-S6

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that 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 [X]
- **Facility Maintained Operation & Maintenance Plan Required?** Yes [X] No [ ]
- **Compliance Assurance Monitoring (CAM) Plan Required?** Yes [X] No [ ]

ZLP 40 10-TV-002R2-M001, 06/20/2022
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 this 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-036

Associated Equipment

Associated Emission Unit ID Numbers: EU-036
Emissions Control Equipment ID Number: CE-036
Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: EU-036
Emission Unit Description: Brass Grinding (three stations)
Raw Material/Fuel: Brass Casings
Rated Capacity: 4.0 tons/hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 40%\(^{(1)}\)
Authority for Requirement: 567 IAC 23.3(2)“d”
DNR Construction Permit 07-A-493

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

Pollutant: PM\(_{10}\)
Emission Limit(s): 0.60 lb/hr
Authority for Requirement: DNR Construction Permit 07-A-493

Pollutant: Particulate Matter
Emission Limit(s): 0.60 lb/hr
Authority for Requirement: DNR Construction Permit 07-A-493

Pollutant: Particulate Matter
Emission Limit(s): 0.05 gr/dscf
Authority for Requirement: 567 IAC 23.4(6)
DNR Construction Permit 07-A-493

Operational Limits & Requirements

Control equipment parameters:
1. Maintain Brass Finish Grinding Baghouse (CE-036) according to manufacturer’s specifications and maintenance schedule.

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. Maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of Brass Finish Baghouse (CE-036).

Authority for Requirement: DNR Construction Permit 07-A-493

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

Stack Height, (ft, from the ground): 50
Stack Opening, (inches, dia.): 28
Exhaust Flow Rate (scfm): 13,800
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 07-A-493

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 this 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-020

Associated Equipment
Associated Emission Unit ID Numbers: See Table: Core Machine

Table: Core Machine

<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</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-020</td>
<td>EU-020</td>
<td>No Bake Core Machines</td>
<td>Core Making Chemicals and Catalysts, Sand</td>
<td>2.0 tons/hr</td>
</tr>
</tbody>
</table>

Applicable Requirements

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

Table: Core Machine-Emission Limits

<table>
<thead>
<tr>
<th>Emission Point Number</th>
<th>Associated Emission Unit Number</th>
<th>Opacity Limit 567 IAC 23.3(2)&quot;d&quot;</th>
<th>PM Limit (lb/hr)</th>
<th>PM_{10} Limit (lb/hr)</th>
<th>Authority for Requirement (Construction Permit Number)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-020</td>
<td>EU-020</td>
<td>40%{\textsuperscript{1}}</td>
<td>1.73</td>
<td>1.73</td>
<td>06-A-406-S2</td>
</tr>
</tbody>
</table>

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

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a"
DNR Construction Permit 06-A-406-S2
**NESHAP Applicability**

These units are subject to National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart EEEEE—National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries as specified in 40 CFR Part 63 §63.7681

**Operational Limits & Requirements**

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

Process throughput:
1. The total weight of no bake cores produced shall not exceed 5,325 tons during any 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. At the end of each month, record the total weight of no bake cores produced over the previous month.
2. At the end of each month, record the total weight of no bake cores produced over the previous twelve (12) months.

Authority for Requirement: DNR Construction Permit 06-A-406-S2

**Monitoring Requirements**

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

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

Authority for Requirement: 567 IAC 22.108(3)

Associated Equipment

Associated Emission Unit ID Numbers: See Table: Laempe Core Making

Emissions Control Equipment ID Number: None

Table: Laempe Core Making

<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>Raw Material</th>
<th>Rated Capacity (tons/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-031</td>
<td>EU-031</td>
<td>Laempe Core Making</td>
<td>N/A</td>
<td>Handled Sand</td>
<td>5.0</td>
</tr>
<tr>
<td>EP-039</td>
<td>EU-039</td>
<td>Laempe Core Making</td>
<td></td>
<td>Sand</td>
<td>5.5</td>
</tr>
</tbody>
</table>

Applicable Requirements

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

Table: Laempe Core Making Emission Limits

<table>
<thead>
<tr>
<th>Emission Point Number</th>
<th>Associated Emission Unit Number</th>
<th>Opacity Limit 567 IAC 23.3(2)&quot;d&quot;</th>
<th>PM Limit (lb/hr)</th>
<th>PM Limit State (gr/dscf) 567 IAC 23.3(2)&quot;a&quot;</th>
<th>PM$_{10}$ Limit (lb/hr)</th>
<th>Authority for Requirement (Construction Permit Number)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-031</td>
<td>EU-031</td>
<td>40%(^{(1)})</td>
<td>0.30</td>
<td>0.1</td>
<td>0.30</td>
<td>06-A-411-S3</td>
</tr>
<tr>
<td>EP-039</td>
<td>EU-039</td>
<td>40%(^{(1)})</td>
<td>0.70</td>
<td>0.1</td>
<td>0.70</td>
<td>11-A-251</td>
</tr>
</tbody>
</table>

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

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

Process throughput:

For EP-031
1. The maximum sand throughput of this system shall not exceed 5.0 tons of sand per hour.
2. The total combined weight of Laempe sand processed in EU 031 and EU 039 shall not exceed 13,314 tons during any twelve (12) month period, rolled monthly.
For EP-039
1. The maximum iron throughput of this system shall not exceed 5.5 tons of sand per hour.
2. The total combined weight of Laempe sand processed in EU 031 and EU 039 shall not exceed 13,314 tons during any twelve (12) month period, rolled monthly.

For EP-031 and EP-039
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. At the end of each day, record the total amount of sand processed for each system during that working day.
2. At the end of each day, record the number of hours each core making system operated during that working day.
3. No later than seven (7) days after the end of each month, calculate the daily average sand processing rate, in tons per hour, for each day of the previous month by dividing the total amount of sand processed by each system for a given day by the number of hours the unit operated during that day.
4. At the end of each month, record the total combined weight of Laempe cores produced in EU 031 and EU 039 over the previous month.
5. At the end of each month, record the total weight of Laempe cores produced in EU 031 and EU 039 over the previous twelve (12) months.

Authority for Requirement: DNR Construction Permits 06-A-411-S3 and 11-A-251

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

<table>
<thead>
<tr>
<th>Emission Point Number</th>
<th>Emission Unit Number</th>
<th>Stack Height (ft from the ground)</th>
<th>Stack Opening (inches, dia.)</th>
<th>Exhaust Flow Rate (scfm)</th>
<th>Exhaust Temperature (°F)</th>
<th>Discharge Style</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-031</td>
<td>EU-031</td>
<td>40</td>
<td>14</td>
<td>5,300</td>
<td>Ambient (70)</td>
<td>Vertical Unobstructed</td>
</tr>
<tr>
<td>EP-039</td>
<td>EU-039</td>
<td>40</td>
<td>16</td>
<td>2,700</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>


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-038

Associated Equipment
Associated Emission Unit ID Numbers: See Table: Sinto Core Machine
Emissions Control Equipment ID Number: None

Table: Sinto Core Machine

<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>Raw Material</th>
<th>Rated Capacity (tons/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-038</td>
<td>EU-038</td>
<td>Sinto Core Machine</td>
<td>N/A</td>
<td>Handled Sand</td>
<td>2.7</td>
</tr>
<tr>
<td></td>
<td>EU-038 (VOC)</td>
<td>Sinto Core Machine (VOC)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 40%\(^{(1)}\)
Authority for Requirement: 567 IAC 23.3(2)”d”
DNR Construction Permit 10-A-303-S1

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

Pollutant: PM\(_{10}\)
Emission Limit(s): 0.32 lb/hr
Authority for Requirement: DNR Construction Permit 10-A-303-S1

Pollutant: Particulate Matter
Emission Limit(s): 0.32 lb/hr
Authority for Requirement: DNR Construction Permit 10-A-303-S1

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.3(2)”a”
DNR Construction Permit 10-A-303-S1
Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:
1. The total weight of core making produced shall not exceed 4,000 tons during any 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. At the end of each month, record the total weight of no bake cores produced over the previous month.
2. At the end of each month, record the total weight of no bake cores produced over the previous twelve (12) months.

Authority for Requirement: DNR Construction Permit 10-A-303-S1

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

Stack Height, (ft, from the ground): 30.2
Stack Opening, (inches, dia.): 14
Exhaust Flow Rate (scfm): 2,400
Exhaust Temperature (°F): Ambient (70)
Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 10-A-303-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)
Emission Point ID Number: 044

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent thru this EP): EU-044
Emissions Control Equipment ID Number: CE-044
Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: EU-044
Emission Unit Description: Laempe Sand Day Tank and Mixer
Raw Material/Fuel: Sand
Rated Capacity: 5 tons/hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 40% (1)
Authority for Requirement: 567 IAC 23.3(2)“d”
DNR Construction Permit 19-A-563

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

Pollutant: Particulate Matter
Emission Limit(s): 0.05 gr/dscf
Authority for Requirement: 567 IAC 23.4(6)
DNR Construction Permit 19-A-563

Pollutant: PM10
Emission Limit(s): 0.51 lb/hr
Authority for Requirement: DNR Construction Permit 19-A-563

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

A. The owner or operator shall inspect and maintain the baghouse (CE-044) according to manufacturer’s specifications.
B. The owner or operator shall maintain a log of all inspection results and maintenance.

Authority for Requirement: DNR Construction Permit 19-A-563
**Emission Point Characteristics**  
*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground):  N/A  
Stack Opening, (inches, dia.):  5 x 20  
Exhaust Flow Rate (scfm):  1,200  
Exhaust Temperature (°F):  70  
Discharge Style:  Inside Vent  
Authority for Requirement:  DNR Construction Permit 19-A-563

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: 045

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent thru this EP): EU-045
Emissions Control Equipment ID Number: CE-045
Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: EU-045
Emission Unit Description: Laempe Sand Day Tank and Mixer
Raw Material/Fuel: Sand
Rated Capacity: 5.5 tons/hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 40% (1)
Authority for Requirement: 567 IAC 23.3(2)“d”
DNR Construction Permit 19-A-564

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

Pollutant: Particulate Matter
Emission Limit(s): 0.05 gr/dscf
Authority for Requirement: 567 IAC 23.4(6)
DNR Construction Permit 19-A-564

Pollutant: PM<sub>10</sub>
Emission Limit(s): 0.51 lb/hr
Authority for Requirement: DNR Construction Permit 19-A-564

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

A. The owner or operator shall inspect and maintain the baghouse (CE-045) according to manufacturer’s specifications.
B. The owner or operator shall maintain a log of all inspection results and maintenance.

Authority for Requirement: DNR Construction Permit 19-A-564
**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): N/A  
Stack Opening, (inches, dia.): 5 x 20  
Exhaust Flow Rate (scfm): 1,200  
Exhaust Temperature (°F): 70  
Discharge Style: Inside Vent  
Authority for Requirement: DNR Construction Permit 19-A-564

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-GEN1**

**Associated Equipment**  
Associated Emission Unit ID Numbers: EU-GEN1  
Emissions Control Equipment ID Number: None

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Emission Unit vented through this Emission Point: EU-GEN1  
Emission Unit Description: Brass Furnace Back-Up Generator  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 41 hp

**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  
  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.*

**NESHAP Subpart ZZZZ Requirements**  
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, emergency demand response 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, emergency demand response and periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency. 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 and emergency demand response. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, 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-GEN2

Associated Equipment
Associated Emission Unit ID Numbers: EU-GEN2
Emissions Control Equipment ID Number: None

Emission Unit vented through this Emission Point: EU-GEN2
Emission Unit Description: Back Flow Preventer Generator
Raw Material/Fuel: Natural Gas
Rated Capacity: 40 hp

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

Pollutant: Carbon Monoxide
Emission Limit(s): 387 g/hp-hr
Authority for Requirement: 40 CFR Part 60 Subpart JJJJ
567 IAC 23.1(2) “zzz”

Pollutant: NOx + HC
Emission Limit(s): 10 g/hp-hr
Authority for Requirement: 40 CFR Part 60 Subpart JJJJ
567 IAC 23.1(2) “zzz”

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

NSPS Subpart JJJJ Requirements

Compliance Demonstrations:
1. You must demonstrate compliance with the emission standards according to one of the following methods (40 CFR 60.4243(b)):
   a) Purchasing a certified engine that complies with the emission standards,
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(d)(1) and 4243(a).

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 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 must keep records of the 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.

<table>
<thead>
<tr>
<th>Maximum Engine Power</th>
<th>Engine Was Built On Or After</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP &lt; 130</td>
<td>7/1/2008</td>
</tr>
</tbody>
</table>

2. The engine may be operated for the purpose of maintenance checks and readiness testing a maximum of 100 hours/year. There is no time limit on use for emergency situations.

3. 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.

4. 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.

5. 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).

<table>
<thead>
<tr>
<th>Maximum Engine Power</th>
<th>Manufactured On Or After</th>
<th>Recordkeeping Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 &lt; HP &lt; 130</td>
<td>7/1/2008</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 ☑
**Emission Point ID Number:** EP-GEN3

**Associated Equipment**
Associated Emission Unit ID Numbers: EU-GEN3
Emissions Control Equipment ID Number: None

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**Emission Unit vented through this Emission Point:** EU-GEN3
**Emission Unit Description:** Iron Melt Emergency Generator
**Raw Material/Fuel:** Natural Gas
**Rated Capacity:** 4,615 cf/hr

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**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 18-A-148-S1 567 IAC 23.3(2)"d"

- **Pollutant:** Particulate Matter
  - **Emission Limit(s):** 0.1 gr/dscf
  - **Authority for Requirement:** DNR Construction Permit 18-A-148-S1 567 IAC 23.3(2)"a"

- **Pollutant:** Sulfur Dioxide
  - **Emission Limit(s):** 500 ppmv
  - **Authority for Requirement:** DNR Construction Permit 18-A-148-S1 567 IAC 23.3(3)"e"

**Operating Requirements with Associated Monitoring and Recordkeeping**
*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

A. This engine is limited to operating a maximum of 500 hours in any rolling 12-month period.
   a. The owner or operator shall record and maintain the hours of operation for the engine for each month of operation.
   b. The owner or operator shall calculate and maintain the rolling 12-month total of hours of operation of the engine each month.

B. This engine is limited to operate as an emergency stationary internal combustion engine as defined in 40 CFR §63.6640(f). There is no time limit on the use of the engine in emergency situations provided that the annual hourly limit established in Condition 5.A. is not exceeded.

C. In accordance with 40 CFR §63.6625(e), the owner or operator shall operate and maintain the stationary RICE according to the manufacturer's emission-related written instructions
or develop their 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.

D. In accordance with 40 CFR §63.6625(f), the owner or operator shall install a non-resettable
hour meter if one is not already installed.

E. In accordance with 40 CFR §63.6625(h), the owner or operator shall 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.

F. In accordance with NESHAP Subpart ZZZZ Table 2C, the owner or operator shall:
   a. 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.)
   b. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes
      first, and replace as necessary;
   c. Inspect all hoses and belts every 500 hours of operation or annually, whichever
      comes first, and replace as necessary.

G. In accordance with 40 CFR §63.6640(f):
   a. Any operation other than emergency operation, maintenance and testing and
      operation in non-emergency situations (up to) 50 hours per year is prohibited.
   b. There is no time limit on the use of emergency stationary RICE in emergency
      situations, provided that the annual hourly limit established in Condition 5.A. is not
      exceeded
   c. The owner or operator may operate their 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.)
   d. The owner or operator may operate their 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.

H. In accordance with 40 CFR §63.6655, the owner or operator shall:
   a. Keep records of the maintenance conducted on the stationary RICE;
   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.)

Authority for Requirement:  DNR Construction Permit 18-A-148-S1
                                     40 CFR Part 63 Subpart ZZZZ
                                     567 IAC 23.1(4)"cz"

NESHAP Applicability
These units are subject to National Emission Standards for Hazardous Air Pollutants (NESHAP)
Subpart ZZZZ-National Emission Standards for Stationary Reciprocating Internal Combustion
Engines as specified in 40 CFR Part 63 §63.6585.
Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 11
Stack Opening, (inches, dia.): 8
Exhaust Flow Rate (scfm): 1,100
Exhaust Temperature (°F): 1,350
Discharge Style: Vertical unobstructed
Authority for Requirement: DNR Construction Permit 18-A-148-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 flow rate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

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

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

Authority for Requirement: 567 IAC 22.108(3)
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(2). 567 IAC 22.105

G3. Certification Requirement for Title V Related Documents

Any application, report, compliance certification or other document submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. All certifications shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. 567 IAC 22.107 (4)
G4. Annual Compliance Certification
By March 31 of each year, the permittee shall submit compliance certifications for the previous calendar year. The certifications shall include descriptions of means to monitor the compliance status of all emissions sources including emissions limitations, standards, and work practices in accordance with applicable requirements. The certification for a source shall include the identification of each term or condition of the permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with all applicable department rules. For sources determined not to be in compliance at the time of compliance certification, a compliance schedule shall be submitted which provides for periodic progress reports, dates for achieving activities, milestones, and an explanation of why any dates were missed and preventive or corrective measures. The compliance certification shall be submitted to the administrator, director, and the appropriate DNR Field office. 567 IAC 22.108 (15)"e"

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

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

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

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

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

G11. Evidence used in establishing that a violation has or is occurring.
Notwithstanding any other provisions of these rules, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any provisions herein. 1. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred at a source:
   a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 22;
   b. Compliance test methods specified in 567 Chapter 25; or
   c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.

2. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:
   a. Any monitoring or testing methods provided in these rules; or
   b. Other testing, monitoring, or information gathering methods that produce information comparable to that produced by any method in subrule 21.5(1) or this subrule. 567 IAC 21.5(1)-567 IAC 21.5(2)

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

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

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

2. Excess Emissions Reporting

a. Initial Reporting of Excess Emissions. An incident of excess emission (other than an incident of excess emission during a period of startup, shutdown, or cleaning) shall be reported to the appropriate field office of the department within eight hours of, or at the start of the first working day following the onset of the incident. The reporting exemption for an incident of excess emission during startup, shutdown or cleaning does not relieve the owner or operator of a source with continuous monitoring equipment of the obligation of submitting reports required in 567-subrule 25.1(6). An initial report of excess emission is not required for a source with operational continuous monitoring equipment (as specified in 567-subrule 25.1(1) ) if the incident of excess emission continues for less than 30 minutes and does not exceed the applicable emission standard by more than 10 percent or the applicable visible emission standard by more than 10 percent opacity. The initial report may be made by electronic mail (E-mail), in person, or by telephone and shall include as a minimum the following:

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

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

i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
ii. The estimated quantity of the excess emission.
iii. The time and duration of the excess emission.
iv. The cause of the excess emission.
v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.

vi. The steps that were taken to limit the excess emission.

vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. 567 IAC 24.1(1)-567 IAC 24.1(4)

3. Emergency Defense for Excess Emissions. For the purposes of this permit, an “emergency” means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include non-compliance, to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation or operator error. An emergency constitutes an affirmative defense to an action brought for non-compliance with technology based limitations if it can be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that:

a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;

b. The facility at the time was being properly operated;

c. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements of the permit; and

d. The permittee submitted notice of the emergency to the director by certified mail within two working days of the time when the emissions limitations were exceeded due to the emergency. This notice fulfills the requirement of paragraph 22.108(5)”b.” – See G15. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

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

G15. Permit Deviation Reporting Requirements

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

G16. Notification Requirements for Sources That Become Subject to NSPS and NESHAP Regulations

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

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

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

3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). 567 IAC 22.110(2)

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

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.
   a. An administrative permit amendment is a permit revision that does any of the following:
      i. Correct typographical errors
      ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;
      iii. Require more frequent monitoring or reporting by the permittee; or
      iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.
   b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.
   c. Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.

2. Minor Title V Permit Modification.
   a. Minor Title V permit modification procedures may be used only for those permit modifications that satisfy all of the following:
      i. Do not violate any applicable requirement;
      ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit;
      iii. Do not require or change a case by case determination of an emission limitation or other standard, or an increment analysis;
      iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act;
      v. Are not modifications under any provision of Title I of the Act; and
      vi. Are not required to be processed as significant modification under rule 567 - 22.113(455B).
   b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:
      i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;
ii. The permittee's suggested draft permit;
iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used; and
iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).

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

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

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

G19. Duty to Obtain Construction Permits
Unless exempted in 567 IAC 22.1(2) or to meet the parameters established in 567 IAC 22.1(1)"c", the permittee shall not construct, install, reconstruct or alter any equipment, control equipment or anaerobic lagoon without first obtaining a construction permit, or conditional permit, or permit pursuant to rule 567 IAC 22.8, or permits required pursuant to rules 567 IAC 22.4, 567 IAC 22.5, 567 IAC 31.3, and 567 IAC 33.3 as required in 567 IAC 22.1(1). A permit shall be obtained prior to the initiation of construction, installation or alteration of any portion of the stationary source or anaerobic lagoon. 567 IAC 22.1(1)

G20. Asbestos
The permittee shall comply with 567 IAC 23.1(3)"a", and 567 IAC 23.2(3)"g" when activities involve asbestos mills, surfacing of roadways, manufacturing operations, fabricating, insulating, waste disposal, spraying applications, demolition and renovation operations (567 IAC 23.1(3)"a"); training fires and controlled burning of a demolished building (567 IAC 23.2).

G21. Open Burning
The permittee is prohibited from conducting open burning, except as provided in 567 IAC 23.2. 567 IAC 23.2 except 23.2(3)"j"; 567 IAC 23.2(3)"j" - State Only
G22. Acid Rain (Title IV) Emissions Allowances
The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated there under. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners and operators of the unit or the designated representative of the owners and operators is prohibited. Exceedences of applicable emission rates are prohibited. “Held” in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. 567 IAC 22.108(7)

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

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

G24. Permit Reopenings

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

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

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

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

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

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

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

**G25. Permit Shield**

1. The director may expressly include in a Title V permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:

   a. Such applicable requirements are included and are specifically identified in the permit; or
   b. The director, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.

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

3. A permit shield shall not alter or affect the following:

   a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;
   b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
   c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;
   d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. 567 IAC 22.108 (18)

**G26. Severability**

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

**G27. Property Rights**

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

**G28. Transferability**

This permit is not transferable from one source to another. If title to the facility or any part of it is transferred, an administrative amendment to the permit must be sought consistent with the requirements of 567 IAC 22.111(1). 567 IAC 22.111 (1)"d"
G29. Disclaimer
No review has been undertaken on the engineering aspects of the equipment or control equipment other than the potential of that equipment for reducing air contaminant emissions. 567 IAC 22.3(3)"c"

G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification
The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with applicable requirements of 567 – Chapter 23 or a permit condition. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. If the owner or operator does not provide timely notice to the department, the department shall not consider the test results or performance evaluation results to be a valid demonstration of compliance with applicable rules or permit conditions. Upon written request, the department may allow a notification period of less than 30 days. At the department’s request, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. A testing protocol shall be submitted to the department no later than 15 days before the owner or operator conducts the compliance demonstration. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.

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

  Stack Test Review Coordinator
  Iowa DNR, Air Quality Bureau  
  Wallace State Office Building

  502 E 9th St.  
  Des Moines, IA 50319-0034  
  (515) 725-9526

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:

<table>
<thead>
<tr>
<th>Field Office 1</th>
<th>Field Office 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1101 Commercial Court, Suite 10</td>
<td>2300-15th St., SW</td>
</tr>
<tr>
<td>Manchester, IA 52057</td>
<td>Mason City, IA 50401</td>
</tr>
<tr>
<td>(563) 927-2640</td>
<td>(641) 424-4073</td>
</tr>
</tbody>
</table>

<table>
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<tr>
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<th>Field Office 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>1900 N. Grand Ave.</td>
<td>1401 Sunnyside Lane</td>
</tr>
<tr>
<td>Spencer, IA 51301</td>
<td>Atlantic, IA 50022</td>
</tr>
<tr>
<td>(712) 262-4177</td>
<td>(712) 243-1934</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Field Office 5</th>
<th>Field Office 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wallace State Office Building</td>
<td>1023 West Madison Street</td>
</tr>
<tr>
<td>502 E 9th St.</td>
<td>Washington, IA 52353-1623</td>
</tr>
<tr>
<td>Des Moines, IA 50319-0034</td>
<td>(319) 653-2135</td>
</tr>
<tr>
<td>(515) 725-0268</td>
<td></td>
</tr>
</tbody>
</table>

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

**Linn County Public Health**
Air Quality Branch
1020 6th Street SE
Cedar Rapids, IA 52401
(319) 892-6000
V. Appendix A: NSPS & NESHAP

NSPS
• 40 CFR 60 Subpart JJJJ—Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
  http://www.ecfr.gov/cgi-bin/text-idx?SID=b490bd8981384320568408ba376ae7a1&node=sp40.7.60.jjjj&rgn=div6

NESHAP
• 40 CFR 63 Subpart ZZZZ—National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
  http://www.ecfr.gov/cgi-bin/text-idx?SID=b490bd8981384320568408ba376ae7a1&node=sp40.14.63.zzzz&rgn=div6
• 40 CFR 63 Subpart EEEEEE—National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries