

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

Name of Permitted Facility: Keokuk Mills, LLC

Facility Location: 3972 Main Street, Keokuk, IA 52632

Air Quality Operating Permit Number: 04-TV-012R3

Expiration Date: September 11, 2028

Permit Renewal Application Deadline: March 11, 2028

EIQ Number: 92-3000

Facility File Number: 56-01-025

Responsible Official

Allan See

Project Manager

3972 Main Street

Keokuk, IA 52632

Phone #: 319-313-6478

Permit Contact Person for the Facility

Allan See

Project Manager

3972 Main Street

Keokuk, IA 52632

Phone #: 319-313-6478

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

For the Director of the Department of Natural Resources



9/12/2023

Marnie Stein, Supervisor of Air Operating Permits Section

Date

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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)
PM ₁₀	Particulate Matter (PM) ten microns and less in diameter
SO ₂	sulfur dioxide
NO _x	nitrogen oxides
VOC	volatile organic compound
CO	carbon monoxide
HAP.....	hazardous air pollutant
HCN	hydrogen cyanide

I. Facility Description and Equipment List

Facility Name: Keokuk Mills, LLC

Permit Number: 04-TV-012R3

Facility Description: Steel Foundries (except Investment), (SIC 3325), (NAICS 331513)

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	Construction Permit Number
01	01	Pneumatic Sand Unloader	76-A-100
03	11	Palmer Sand Conditioner	77-A-176-S9
	30a	Reclaim Sand Day Tank #1	
10	14-1	Loop Mixer	08-A-329-S5
	14-2	Large Mixer	
	21	Pouring and Cooling	
	23	Large Casting Shakeout	
	26	Burn Rail	
	67	Large Casting Cooling	
37i	37S3	Casting Repair Welder	04-A-1101-S3
	37S4	Casting Repair Welder	
	37N2	Casting Repair Welder	
	37S5	Casting Repair Welder	
	37N6	Finish Station	
15	25	Tumble Blast (34 cu ft)	76-A-099-S2
18-1	32A	Casting Heat Treat (Oven #6511)	01-A-219-S4
18-2	32B	Casting Heat Treat (Oven #6512)	01-A-220-S5
18-3	32C	Casting Heat Treat (Oven #6513)	01-A-221-S4
18-4		Casting Heat Treat (Oven #6513)	01-A-222-S4
18-5	32D	Casting Heat Treat (Oven #6514)	01-A-223-S4
18-6		Casting Heat Treat (Oven #6514)	01-A-224-S4
18-7	32E	Casting Heat Treat (Oven #6515)	01-A-225-S5
19	33	Walk-in Blast Booth #1	01-A-182-S5
25i	EU 25-1N-A	Casting Welding/Repair	01-A-227-S3
	EU 25-1N-B	Carbon Rod Welding	

Emission Point Number	Emission Unit Number	Emission Unit Description	Construction Permit Number
	EU 25-1S-A	Casting Welding/Repair	
	EU 25-1S-B	Carbon Rod Welding	
	EU 25-2N-A	Casting Welding/Repair	
	EU 25-2N-B	Carbon Rod Welding	
	EU 25-2S-A	Casting Welding/Repair	
	EU 25-2S-B	Carbon Rod Welding	
	EU 25-3N-A	Casting Welding/Repair	
	EU 25-3N-B	Carbon Rod Welding	
	EU 25-4N-A	Casting Welding/Repair	
	EU 25-4N-B	Carbon Rod Welding	
	EU 25-4S-A	Casting Welding/Repair	
	EU 25-4S-B	Carbon Rod Welding	
	EU 25-5N-A	Casting Welding/Repair	
	EU 25-5N-B	Carbon Rod Welding	
	EU 25-5S-A	Casting Welding/Repair	
	EU 25-5S-B	Carbon Rod Welding	
26	49	Walk-in Blast Booth #2	22-A-235
30B-1			15-A-522-S1
30B-2			22-A-238
30B-3	30B	Reclaim Sand Day Tank #2	22-A-239
30B-4			22-A-240
33	21	Pouring & Cooling	
	63	Induction Furnace	97-A-659-S7
34-1			97-A-664-S3
34-2	48	New Sand 150 Day Tank	22-A-241
34-3			22-A-242
34-4			22-A-243
SCC01	SCC01	Tumble Blast (70 cu ft.)	02-A-656-S4
08 FUG	16A	Scrap and Charge Handling	
	16B	Scrap and Charge Unloading	22-A-234
52	22	Small Shaker Table	
	27	200 Blow System Receiving Hopper	
	50	Large Shaker Table	21-A-083-S2
	51	Bucket Elevator	
	52	Vibra-Mill	
53i	03	Electric Sand Heater #1	15-A-524-S1
54i	04	Electric Sand Heater #2	15-A-525-S1
56	15	Core Per-Mix	15-A-523-S1
58i	07a	Mold Mixer 1	
	07b	Mold Mixer 2	15-A-526-S1

Insignificant Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
EU36	Special Products Grinding
EU43	Hawkeye Heating
EU45	Casting Finishing (4 Stations)
EU53	Haul Road
EU 60	Diesel Oil Tank (500 gallons)
EU64	Kerosene Tank (500 Gallons)
EU65	Gasoline Tank (500 Gallons)
EU68	#7 Kwic Arc Booth
EU69	#8 Kwic Arc Booth
EU-70	Pattern Shop Dust Collector
EU78	90 Ton Sand Tank
EU79	Wheelabrator 76 Blast System
EU-81	Induction Furnace Cooling Tower
EU-82	Heat Treat Oven Cooling Tower
EU-83	Palmer Cooling Tower
EU101	Stone Car Bottom Heat Treat Oven
EU104	Finish Shop (grinding)
EU105	Viking Blast Dust Collector
EU108	West Heat Treat Cooling Tower
EU109	Torpedo Heaters
EU112	Palmer Sand Heater
EU131	Hawkeye Building Finish Booths (6 stations)

II. Plant-Wide Conditions

Facility Name: Keokuk Mills, LLC

Permit Number: 04-TV-012R3

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: September 12, 2023

Ending on: September 11, 2028

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 Emission Point-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 (PM)

No person shall cause or allow the emission of Particulate Matter (PM) 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 (PM) 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 (PM) from any process shall not exceed the amount determined from Table I, or amount specified in a permit if based on an emission standard of 0.1 grain per standard cubic foot of exhaust gas or established from standards provided in 23.1(455B) and 23.4(455B).

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

Fugitive Dust: Attainment and Unclassified Areas - No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved public roads, without taking reasonable precautions to prevent Particulate Matter (PM) in quantities sufficient to create a nuisance, as defined in Iowa Code section 657.1, from becoming airborne. All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not limited to, the following procedures.

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

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

NESHAP Applicability

Keokuk Mills, LLC is subject to 40 CFR 63 Subpart A – NESHAP General Provisions.

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

Keokuk Mills, LLC is subject to 40 CFR 63, Subpart ZZZZZ—National Emissions Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources

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

Stack Testing Requirements

If the facility, Keokuk Mills, LLC, is operational, stack testing must be completed as required. If the facility is in a period of non-operation (shut-down) and has notified the DNR in writing of the shut-down, stack testing is not required during the period of non-operation. If the facility becomes operational for any period of time and a stack testing deadline has passed, stack testing must be conducted within 90-days of becoming operational.

III. Emission Point-Specific Conditions

Facility Name: Keokuk Mills, LLC

Permit Number: 04-TV-012R3

Emission Point ID Number: 01

Associated Equipment

Associated Emission Unit ID Numbers: 01

Emissions Control Equipment ID Number: CE-01

Emissions Control Equipment Description: Bin Vent Filter

Emission Unit vented through this Emission Point: 01

Emission Unit Description: Pneumatic Sand Tank

Raw Material/Fuel: Sand

Rated Capacity: 25 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%

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 35.4 lb/hr⁽¹⁾

⁽¹⁾ Based on a process weight rate of 25 tons/hr

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

DNR Construction Permit 76-A-100

Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic 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

See Appendix B for CAM plan.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 03 (Sand Reclaim System)

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity (tons/hr)	CE ID & Description
03	11	Palmer Sand Conditioner	Sand	12.5	CE 02 Baghouse 7
	30a	Reclaim Sand Day Tank #1	Sand	20	

Applicable Requirements

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

The emissions from this equipment shall not exceed the following specified levels.

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

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

DNR Construction Permit 77-A-176-S9

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

Pollutant: PM₁₀

Emission Limit(s): 0.20 lb/hr

Authority for Requirement: DNR Construction Permit 77-A-176-S9

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.05 gr./dscf

Authority for Requirement: 567 IAC 23.4(6)

DNR Construction Permit 77-A-176-S9

Operational Limits & Requirements

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

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

- A. The owner or operator shall maintain the differential pressure drop across Baghouse 7 (CE-02) between 3.0- and 15.0-inches water column.
 - i. The owner or operator shall collect and record the pressure drop, in inches of water column, across Baghouse 7 (CE-02) daily while in operation.

- B. If the differential pressure drop falls outside the applicable range in condition A, the owner or operator shall record the time, date, and actions taken to correct the situation. The owner or operator shall also record when the differential pressure drop across the affected baghouse has returned within the allowed range.
- C. The owner or operator shall inspect and maintain Baghouse 7 (CE-02) according to the manufacturer's specifications.
 - i. The owner or operator shall keep a log of all inspection and maintenance activities performed on the control equipment. At a minimum, this log shall include:
 - 1. The date that any inspection and/or maintenance was performed on the control equipment;
 - a) The owner or operator shall conduct inspection activities at a minimum of once per calendar year.
 - 2. Any issues identified during any inspection and maintenance activities;
 - 3. The date each issue was resolved; and
 - 4. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 77-A-176-S9

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 42.4

Stack Opening, (inches, dia.): 24

Exhaust Flow Rate (scfm): 1,900

Exhaust Temperature (°F): 90

Discharge Style: Unobstructed vertical

Authority for Requirement: DNR Construction Permit 77-A-176-S9

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 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 periodic 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

See Appendix B for CAM plan.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 10

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID & Description
10	14-1	Loop Mixer	Sand	12.5 tons of sand/hr	Baghouse (CE-09)
	14-2	Large Mixer	Sand	12.5 tons of sand/hr	
	21	Pouring and Cooling	Steel	10 tons of steel/hr	
	23	Large Casting Shakeout	Steel	10 tons of steel/hr	
	26	Burn Rail	Steel	10 tons steel/hr	
	67	Large Casting Cooling	Steel	12.5 tons of steel/hr	

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

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

DNR Construction Permit 08-A-329-S5

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

Pollutant: PM₁₀

Emission Limit(s): 2.38 lb/hr

Authority for Requirement: DNR Construction Permit 08-A-329-S5

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.05 gr/dscf, 4.82 lb/hr

Authority for Requirement: 567 IAC 23.4(6)

DNR Construction Permit 08-A-329-S5

Pollutant: Single Metal HAP

Emission Limit(s): 0.01 lb/hr

Authority for Requirement: DNR Construction Permit 08-A-329-S5

Pollutant: Total Metal HAP

Emission Limit(s): 0.01 lb/hr

Authority for Requirement: DNR Construction Permit 08-A-329-S5

Operational Limits & Requirements

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

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

- A. The owner or operator shall maintain the differential pressure drop across Baghouse CE-09 between 3.0- and 15.0-inches water column.
 - i. The owner or operator shall collect and record the pressure drop, in inches of water column, across Baghouse CE-09 daily while in operation.

- B. If the differential pressure drop falls outside the applicable range in Permit Condition A, the owner or operator shall record the time, date, and actions taken to correct the situation. The owner or operator shall also record when the differential pressure drop across the affected baghouse has returned within the allowed range.

- C. The owner or operator shall inspect and maintain the control equipment (Baghouse CE-09) according to the manufacturer's specifications.
 - ii. The owner or operator shall keep a log of all inspection and maintenance activities performed on the control equipment. At a minimum, this log shall include:
 - 1. The date that any inspection and/or maintenance was performed on the control equipment;
 - a) The owner or operator shall conduct inspection activities at a minimum of once per calendar year.
 - 2. Any issues identified during any inspection and maintenance activities;
 - 3. The date each issue was resolved; and
 - 4. Identification of the staff member performing the maintenance or inspection.

- D. The owner or operator shall only process metal at Plant Number 56-01-025 with the following characteristics:
 - i. The Single Metal HAP content shall not exceed 16 percent by weight.
 - ii. The Total Metal HAP content shall not exceed 19 percent by weight.

- E. The owner or operator shall maintain manufacturer and vendor provided information (Safety Data Sheets, technical data sheets, etc.) for the metal processed at Plant Number 56-01-025.

- F. The total amount of binder chemicals (resin and catalyst) used in the mold making operation at Plant Number 56-01-025 shall not exceed 950,000 pounds per rolling 12-month period.
 - i. The owner or operator shall record the total amount, in pounds, of binder chemicals (resin and catalyst) used every month in the mold making operation at Plant Number 56-01-025.

- ii. The owner or operator shall calculate and record the total amount, in pounds, of binder chemicals (resin and catalyst) used in the mold making operation at Plant Number 56-01-025 on a rolling 12-month basis.
- G. The total amount of mold wash materials used in the mold making operation at Plant Number 56-01-025 shall not exceed 100,000 pounds per rolling 12-month period.
 - i. The owner or operator shall record the total amount, in pounds, of mold wash materials used every month in the mold making operation at Plant Number 56-01-025.
 - ii. The owner or operator shall calculate and record the total amount, in pounds, of mold wash materials used in the mold making operation at Plant Number 56-01-025 on a rolling 12-month basis.
- H. The owner or operator shall only use mold wash materials with no more than 0.001 pounds of HAP per pound of mold wash material.
 - i. The owner or operator shall maintain manufacturer and vendor provided information (Safety Data Sheets, technical data sheets, etc.) for each mold wash material used in the mold making operation at Plant Number 56-01-025.
- I. Plant No. 56-01-025 is classified as a small foundry; therefore, the owner or operator shall comply with the applicable requirements in 40 CFR Part 63, Subpart ZZZZZ (*National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources*) [§63.10880 – §63.10906], including those not specifically mentioned in this Permit.
- J. Per 40 CFR §63.10885(a) and as indicated in §63.10890(a) of Subpart ZZZZZ, the owner or operator shall comply with the restricted metallic scrap requirements in §63.10885(a)(1) and/or the general iron and steel scrap requirements in §63.10885(a)(2).
 - i. The owner or operator shall keep a copy of the material specifications onsite and readily available to all personnel with material acquisition duties and shall provide a copy to each of the scrap providers.
 - ii. To comply with the restricted metallic scrap requirements, the owner or operator shall prepare and operate at all times according to written material specifications for the purchase and use of only metal ingots, pig iron, slitter, or other materials that do not include post-consumer automotive body scrap, post-consumer engine blocks, post-consumer oil filters, oily turnings, lead components, chlorinated plastics, or free liquids.¹ The requirements for no free liquids do not apply if the owner or operator can demonstrate that the free liquid is water that resulted from scrap exposure to rain.
 - iii. To comply with the general iron and steel scrap requirements, the owner or operator shall prepare and operate at all times according to written material specifications for the purchase and use of only iron and steel scrap that has been depleted (to the extent practicable) of organics and HAP metals in the charge materials used by the iron and steel foundry.

¹ “Free liquids” is defined as material that fails the paint filter test by EPA Method 9095B, “Paint Filter Liquids Test” (revision 2), November 2004.

1. Per §63.10885(a)(2)(i), the materials specifications shall include, at a minimum, the following information:

- a) Specifications for metallic scrap materials charged to a scrap preheater or metal melting furnace to be depleted (to the extent practicable) of the presence of used oil filters, chlorinated plastic parts, accessible lead-containing components (such as batteries and wheel weights), and a program to ensure the scrap materials are drained of free liquids.

- D. Per 40 CFR §63.10885(b) of Subpart ZZZZZ, for scrap containing motor vehicle scrap, the owner or operator shall procure the scrap pursuant to one of the compliance options described below for each scrap provider, contract, or shipment.
 - i. Per §63.10885(b)(1), if using the site-specific plan for mercury switches option, the owner or operator shall comply with the requirements in §63.10885(b)(1)(i) through (b)(1)(v).
 - ii. Per §63.10885(b)(2), if using the approved mercury programs option, the owner or operator shall comply with the requirements in §63.10885(b)(2)(i) through (b)(2)(iv).
 - iii. Per §63.10885(b)(3), if using the specialty metal scrap option, the owner or operator shall comply with the requirements in §63.10885(b)(3).
- E. Per 40 CFR §63.10885(b)(4) of Subpart ZZZZZ, for scrap that does not contain motor vehicle scrap, the owner or operator shall certify in the notification of compliance status and maintain records of documentation that this scrap does not contain motor vehicle scrap.
- F. Per §63.10890(b) of Subpart ZZZZZ, the owner or operator shall submit an initial notification of applicability according to §63.9(b)(2) of Subpart A.
- G. Per §63.10890(c) of Subpart ZZZZZ, the owner or operator shall submit a notification of compliance status according to §63.9(h)(1)(i) of Subpart A and as instructed in §63.10890(c) of Subpart ZZZZZ.
- H. Per 40 CFR §63.10890(d) and §63.10890(i) of Subpart ZZZZZ and as required in §63.10(b)(1) of Subpart A, the owner or operator shall maintain files of all information (including all reports and notifications) for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche.
- I. Per 40 CFR §63.10890(e) of Subpart ZZZZZ, the owner or operator shall maintain the following records according to §63.10(b)(1) of Subpart A.
 - i. Records supporting the initial notification of applicability and the notification of compliance status according to §63.10(b)(2)(xiv) of Subpart A.

- ii. Records of written materials specifications according to §63.10885(a) and records that demonstrate compliance with the requirements for restricted metallic scrap in §63.10885(a)(1) and/or for the use of general scrap in §63.10885(a)(2) and for mercury in §63.10885(b)(1) through (3), as applicable.
 - iii. Records documenting compliance with §63.10885(b)(4) for scrap that does not contain motor vehicle scrap.
 - iv. Records of the annual quantity and composition of each HAP-containing chemical binder or coating material used to make molds and cores. These records shall include copies of purchasing records, Safety Data Sheets, or other documentation that provides information on the binder or coating materials used.
 - v. Records of metal melt production for each calendar year.
- J. Per 40 CFR §63.10890(f) of Subpart ZZZZZ, the owner or operator shall submit semiannual compliance reports to the Department according to the requirements in §63.10(e) of Subpart A. The report shall clearly identify any deviation from the pollution prevention management practices in §63.10885 of Subpart ZZZZZ and the corrective action taken.
- K. Per 40 CFR §63.10890(g) of Subpart ZZZZZ, the owner or operator shall submit a written notification to the Department of the initial classification of Plant No. 40-01-004 as a small foundry as required in §63.10880(f) and (g), as applicable, and for any subsequent reclassification as required in §63.10881(d)(1) or (e), as applicable.
- L. Per 40 CFR §63.10890(h) of Subpart ZZZZZ, following the initial determination for an existing affected source as a small foundry, if the annual metal melt production exceeds 20,000 tons during the preceding year, the owner or operator shall comply with the requirements for large foundries by the applicable dates in §63.10881(d)(1)(i) or (d)(1)(ii).
- M. Per 40 CFR §63.10890(i) of Subpart ZZZZZ, the owner or operator shall comply with the requirements of the General Provisions (40 CFR Part 63, Subpart A), including §§ 63.1 through 63.5; §63.6(a), (b), (c), and (e)(1); §63.9; §63.10(a), (b)(1), (b)(2)(xiv), (b)(3), (d)(1), (d)(4), and (f); and §§ 63.13 through 63.16.
- i. Per §63.6(e)(1) of Subpart A, at all times, including periods of startup, shutdown, and malfunction, the owner or operator shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.

Authority for Requirement: DNR Construction Permit 08-A-329-S5
 567 IAC 23.1(4)"dz"
 40 CFR 63 Subpart ZZZZZ

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 73
- Stack Opening, (inches, dia.): 52
- Exhaust Flow Rate (scfm): 56,200
- Exhaust Temperature (°F): 100
- Discharge Style: Vertical Unobstructed
- Authority for Requirement: DNR Construction Permit 08-A-329-S5

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 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 periodic 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

See Appendix B for CAM plan.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 11FUG (Internally Vented)

Associated Equipment

Associated Emission Unit ID Numbers: 36

Emission Unit vented through this Emission Point: 36
Emission Unit Description: Special Products Grinding
Raw Material/Fuel: Castings
Rated Capacity: 0.83 tons/hr

Applicable Requirements

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

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

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

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

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: 37i (Internally Vented)

Associated Equipment

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID & Description
37i	37S3	Casting Repair Welder	Welding Wire	4.32 lbs/hour	Cartridge Filters (CE-37A)
	37S4	Casting Repair Welder	Welding Wire	4.32 lbs/hour	
	37N2	Casting Repair Welder	Welding Wire	4.32 lbs/hour	Cartridge Filters (CE-37B)
	37S5	Casting Repair Welder	Welding Wire	4.32 lbs/hour	None
	37N6	Finish Station	Steel	1 ton/hour	None

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: 40% ⁽¹⁾

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

DNR Construction Permit 04-A-1101-S3

⁽¹⁾ An exceedance of the indicator opacity of “no visible emissions” outside the building 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: 0.05gr/dscf, 0.42 lb/hr

Authority for Requirement: 567 IAC 23.4(6)

DNR Construction Permit 04-A-1101-S3

Pollutant: Single Metal HAP

Emission Limit: 0.02 lb/hr

Authority for Requirement: DNR Construction Permit 04-A-1101-S3

Pollutant: Total Metal HAP

Emission Limit: 0.03 lb/hr

Authority for Requirement: DNR Construction Permit 04-A-1101-S3

Operational Limits & Requirements

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

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

- A. The owner or operator shall only process metal at Plant Number 56-01-025 with the following characteristics:
 - i. The Single Metal HAP content shall not exceed 16 percent by weight.
 - ii. The Total Metal HAP content shall not exceed 19 percent by weight.
- B. The owner or operator shall maintain manufacturer and vendor provided information (Safety Data Sheets, technical data sheets, etc.) for the metal processed at Plant Number 56-01-025.
- C. The owner or operator shall develop an operating and maintenance plan for the control equipment covered by this permit that is consistent with the manufacturer’s instructions for routine and long-term maintenance.
- D. 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 covered by this permit.

Authority for Requirement: DNR Construction Permit 04-A-1101-S3

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
(Required for CE-37A & CE-37B)

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: 15

Associated Equipment

Associated Emission Unit ID Numbers: 25
Emissions Control Equipment ID Number: CE-07
Emissions Control Equipment Description: Baghouse #8

Emission Unit vented through this Emission Point: 25
Emission Unit Description: Tumble Blast (34 cu ft)
Raw Material/Fuel: Castings
Rated Capacity: 3.06 tons/hr

Applicable Requirements

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

The emissions from this equipment 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 76-A-099-S2

⁽¹⁾ An exceedance of the indicator opacity of (0%) 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: PM₁₀

Emission Limit(s): 0.508 lb/hr

Authority for Requirement: DNR Construction Permit 76-A-099-S2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.05 gr/dscf

Authority for Requirement: 567 IAC 23.4(6)
DNR Construction Permit 76-A-099-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 37.7

Stack Opening, (inches, dia.): 15.25 x 22.25

Exhaust Flow Rate (scfm): 7,000

Exhaust Temperature (°F): 89

Discharge Style: Vertical, obstructed

Authority for Requirement: DNR Construction Permit 76-A-099-S2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 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 periodic 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 Numbers: 18-1, 18-2, 18-3, 18-4, 18-5, 18-6, & 18-7

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity
18-1	32A	Casting Heat Treat (Oven #6511)	Natural Gas	7 MMBtu/hr
18-2	32B	Casting Heat Treat (Oven #6512)	Natural Gas	7 MMBtu/hr
18-3	32C	Casting Heat Treat (Oven #6513)	Natural Gas	7 MMBtu/hr
18-4	32C	Casting Heat Treat (Oven #6513)	Natural Gas	7 MMBtu/hr
18-5	32D	Casting Heat Treat (Oven #6514)	Natural Gas	7 MMBtu/hr
18-6	32D	Casting Heat Treat (Oven #6514)	Natural Gas	7 MMBtu/hr
18-7	32E	Casting Heat Treat (Oven #6515)	Natural Gas	4.9 MMBtu/hr

Applicable Requirements

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

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

EP	EU	Pollutant	Emission Limit	Authority for Requirement	
				567 IAC	DNR Construction Permit
18-1	32A	Opacity	40% ⁽¹⁾	23.3(2)"d"	01-A-219-S4
		PM	0.06 lb/hr, 0.1 gr/scf	23.3(2)"a"	
		SO ₂	500 ppmv	23.3(3)"e"	
18-2	32B	Opacity	40% ⁽¹⁾	23.3(2)"d"	01-A-220-S5
		PM	0.06 lb/hr, 0.1 gr/scf	23.3(2)"a"	
		SO ₂	500 ppmv	23.3(3)"e"	
18-3	32C	Opacity	40% ⁽¹⁾	23.3(2)"d"	01-A-221-S4
		PM	0.06 lb/hr, 0.1 gr/scf	23.3(2)"a"	
		SO ₂	500 ppmv	23.3(3)"e"	
18-4	32C	Opacity	40% ⁽¹⁾	23.3(2)"d"	01-A-222-S4
		PM	0.06 lb/hr, 0.1 gr/scf	23.3(2)"a"	
		SO ₂	500 ppmv	23.3(3)"e"	
18-5	32D	Opacity	40% ⁽¹⁾	23.3(2)"d"	01-A-223-S4
		PM	0.06 lb/hr, 0.1 gr/scf	23.3(2)"a"	
		SO ₂	500 ppmv	23.3(3)"e"	
18-6	32D	Opacity	40% ⁽¹⁾	23.3(2)"d"	01-A-224-S4
		PM	0.06 lb/hr, 0.1 gr/scf	23.3(2)"a"	
		SO ₂	500 ppmv	23.3(3)"e"	
18-7	32-E	Opacity	40% ⁽¹⁾	23.3(2)"d"	01-A-225-S5
		PM	0.04 lb/hr, 0.1 gr/scf	23.3(2)"a"	
		SO ₂	500 ppmv	23.3(3)"e"	

⁽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 each emission unit shall comply with the operational limits and requirements listed below.

- A. The owner or operator shall use natural gas as the only fuel for caster heat treat ovens.
 - i. The owner or operator shall maintain a record of the type of fuel burned in the caster heat treat ovens.
 - ii. Prior to burning any other fuel in any of these units, the owner or operator shall apply for and obtain a new construction permit from the Department.

Authority for Requirement: DNR Construction Permit 01-A-219-S4 (EP 18-1)
 DNR Construction Permit 01-A-220-S5 (EP 18-2)
 DNR Construction Permit 01-A-221-S4 (EP 18-3)
 DNR Construction Permit 01-A-222-S4 (EP 18-4)
 DNR Construction Permit 01-A-223-S4 (EP 18-5)
 DNR Construction Permit 01-A-224-S4 (EP 18-6)
 DNR Construction Permit 01-A-225-S5 (EP 18-7)

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

EP	Stack Characteristics					Authority for Requirement:
	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia)	Exhaust Temp. (°F)	Exhaust Flowrate	DNR Construction Permit
18-1	55.6	Unobstructed Vertical	13 x 13	450	1,000 scfm	01-A-219-S4
18-2	54.92	Unobstructed Vertical	13 x 13	450	1,000 scfm	01-A-220-S5
18-3	46.58	Unobstructed Vertical	38.5 x 12.5	450	1,000 scfm	01-A-221-S4
18-4	46.58	Unobstructed Vertical	38.5 x 12.5	450	1,000 scfm	01-A-222-S4
18-5	33.67	Unobstructed Vertical	24.5 x 13	450	1,000 scfm	01-A-223-S4
18-6	33.67	Unobstructed Vertical	38.5 x 13	450	1,000 scfm	01-A-224-S4
18-7	35.2	Obstructed Vertical	36.5	690	700 scfm	01-A-225-S5

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 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 each emission point 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: 19

Associated Equipment

Associated Emission Unit ID Numbers: 33

Control Equipment: CE-10: Baghouse 2

Emission Unit vented through this Emission Point: 33

Emission Unit Description: Walk-in Blast Booth #1

Raw Material/Fuel: Castings

Rated Capacity: 2 tons of castings/hr

Applicable Requirements

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

The emissions from this equipment 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 01-A-182-S5

⁽¹⁾ An exceedance of the indicator opacity of “no visible emissions (No VE)” 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): 0.19 lb/hr, 0.05 gr/dscf

Authority for Requirement: 567 IAC 23.4(6)

DNR Construction Permit 01-A-182-S5

Pollutant: Single Metal HAP

Emission Limit(s): 0.01 lb/hr.

Authority for Requirement: DNR Construction Permit 01-A-182-S5

Pollutant: Total Metal HAP

Emission Limit(s): 0.01 lb/hr.

Authority for Requirement: DNR Construction Permit 01-A-182-S5

Operational Limits & Requirements

The owner/operator of each emission unit shall comply with the operational limits and requirements listed below.

- A. The owner or operator shall only process metal at Plant Number 56-01-025 with the following characteristics:
 - i. The Single Metal HAP content shall not exceed 16 percent by weight.
 - ii. The Total Metal HAP content shall not exceed 19 percent by weight.
- B. The owner or operator shall maintain manufacturer and vendor provided information (Safety Data Sheets, technical data sheets, etc.) for the metal processed at Plant Number 56-01-025.
- C. The owner or operator shall maintain the differential pressure drop across Baghouse 2 (CE-10) between 3.0- and 15.0-inches water column.
 - ii. The owner or operator shall collect and record the pressure drop, in inches of water column, across Baghouse 2 (CE-10) daily while in operation.
- D. If the differential pressure drop falls outside the applicable range in Permit Condition C above, the owner or operator shall record the time, date, and actions taken to correct the situation. The owner or operator shall also record when the differential pressure drop across Baghouse 2 (CE-10) has returned within the allowed range.
- E. The owner or operator shall operate, inspect, and maintain Baghouse 2 (CE-10) according to the manufacturer's specifications and instructions.
 - i. The owner or operator shall keep a log of all maintenance and inspection activities performed on Baghouse 2 (CE-10). At a minimum, this log shall include the following:
 - 1. The date that any inspection and/or maintenance was performed on the control equipment;
 - a) The owner or operator shall conduct inspection activities at a minimum of once per calendar year.
 - 2. Any issues identified during inspection and maintenance activities;
 - 3. The date each issue was resolved; and
 - 4. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 01-A-182-S5

Emission Point Characteristics

This equipment shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 26.9
- Stack Opening, (inches, dia.): 24
- Exhaust Flow Rate (scfm): 12,700
- Exhaust Temperature (°F): 80
- Discharge Style: Vertical, unobstructed
- Authority for Requirement: DNR Construction Permit 01-A-182-S5

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

Construction permit requires facility to develop plan for control equipment.

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: 25i

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID & Description
25i	EU 25-1N-A	Casting Welding/Repair	Weld Wire & Rods	3 lb/hr (wire)	Cartridge Filters (CE 25-1N)
	EU 25-1N-B	Carbon Rod Welding	Carbon Rods	5 lb/hr (rod)	
	EU 25-1S-A	Casting Welding/Repair	Weld Wire & Rods	3 lb/hr (wire)	Cartridge Filters (CE 25-1S)
	EU 25-1S-B	Carbon Rod Welding	Carbon Rods	5 lb/hr (rod)	
	EU 25-2N-A	Casting Welding/Repair	Weld Wire & Rods	3 lb/hr (wire)	Cartridge Filters (CE 25-2N)
	EU 25-2N-B	Carbon Rod Welding	Carbon Rods	5 lb/hr (rod)	
	EU 25-2S-A	Casting Welding/Repair	Weld Wire & Rods	3 lb/hr (wire)	Cartridge Filters (CE 25-2S)
	EU 25-2S-B	Carbon Rod Welding	Carbon Rods	5 lb/hr (rod)	
	EU 25-3N-A	Casting Welding/Repair	Weld Wire & Rods	3 lb/hr (wire)	Cartridge Filters (CE 25-3N)
	EU 25-3N-B	Carbon Rod Welding	Carbon Rods	5 lb/hr (rod)	
	EU 25-4N-A	Casting Welding/Repair	Weld Wire & Rods	3 lb/hr (wire)	Cartridge Filters (CE 25-4N)
	EU 25-4N-B	Carbon Rod Welding	Carbon Rods	5 lb/hr (rod)	
	EU 25-4S-A	Casting Welding/Repair	Weld Wire & Rods	3 lb/hr (wire)	Cartridge Filters (CE 25-4S)
	EU 25-4S-B	Carbon Rod Welding	Carbon Rods	5 lb/hr (rod)	
	EU 25-5N-A	Casting Welding/Repair	Weld Wire & Rods	3 lb/hr (wire)	Cartridge Filters (CE 25-5N)
	EU 25-5N-B	Carbon Rod Welding	Carbon Rods	5 lb/hr (rod)	
	EU 25-5S-A	Casting Welding/Repair	Weld Wire & Rods	3 lb/hr (wire)	Cartridge Filters (CE 25-5S)
	EU 25-5S-B	Carbon Rod Welding	Carbon Rods	5 lb/hr (rod)	

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

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

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.05 gr/dscf, 1.0 lb/hr

Authority for Requirement: 567 IAC 23.4(6)
DNR Construction Permit 01-A-227-S3

Pollutant: Single Metal HAP

Emission Limit(s): 0.01 lb/hr

Authority for Requirement: DNR Construction Permit 01-A-227-S3

Pollutant: Total Metal HAP

Emission Limit(s): 0.04 lb/hr

Authority for Requirement: DNR Construction Permit 01-A-227-S3

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 develop an operating and maintenance plan for the control equipment covered by this permit that is consistent with the manufacturer's instructions for routine and long-term maintenance.
- B. 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 covered by this 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

Construction permit requires facility to develop plan for control equipment.

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 26 (Internally Vented)

Associated Equipment

Associated Emission Unit ID Numbers: 49
Emissions Control Equipment ID Number: CE-26
Emissions Control Equipment Description: Cartridge Filters

Emission Unit vented through this Emission Point: 49
Emission Unit Description: Walk-in Blast
Raw Material/Fuel: Castings
Rated Capacity: 2.5 tons/hr

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limits: 40% ⁽¹⁾

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

DNR Construction Permit 22-A-235

⁽¹⁾An exceedance of the indicator opacity of "no visible emissions" outside the building 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 Limits: 0.24 lb/hr, 0.05 gr/dscf

Authority for Requirement: 567 IAC 23.4(6)

DNR Construction Permit 22-A-235

Pollutant: Single Metal HAP

Emission Limit(s): 0.01 lb/hr

Authority for Requirement: DNR Construction Permit 22-A-235

Pollutant: Total Metal HAP

Emission Limit(s): 0.01 lb/hr

Authority for Requirement: DNR Construction Permit 22-A-235

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 only process metal at Plant Number 56-01-025 with the following characteristics:
 - i. The Single Metal HAP content shall not exceed 16 percent by weight.
 - ii. The Total Metal HAP content shall not exceed 19 percent by weight.
- B. The owner or operator shall maintain manufacturer and vendor provided information (Safety Data Sheets, technical data sheets, etc.) for the metal processed at Plant Number 56-01-025.
- C. The owner or operator shall develop an operating and maintenance plan for the control equipment covered by this permit that is consistent with the manufacturer’s instructions for routine and long-term maintenance.
- D. 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 covered by this permit.

Authority for Requirement: DNR Construction Permit 22-A-235

Monitoring Requirements

The owner/operator of each emission point 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 Numbers: 30B-1, 30B-2, 30B-3, and 30B-4

Associated Equipment

EU	EP	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID & Description	DNR Construction Permit
30B-1	30B	Reclaim Sand Day Tank #2	Sand	12 tons/hr	CE 30B-1 Bin Vent Filters	15-A-522-S1
30B-2					CE 30B-2 Bin Vent Filters	22-A-238
30B-3					CE 30B-3 Bin Vent Filters	22-A-239
30B-4					CE 30B-4 Bin Vent Filters	22-A-240

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: 567 IAC 23.3(2)"d"
DNR Construction Permits 15-A-522-S1, 22-A-238, 22-A-239,
and 22-A-240

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.05 gr/dscf

Authority for Requirement: 567 IAC 23.4(6)
DNR Construction Permits 15-A-522-S1, 22-A-238, 22-A-239,
and 22-A-240

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 develop an operating and maintenance plan for the control equipment associated with the Reclaim Sand Day Tank #2 (EU-30B) that is consistent with the manufacturer’s instructions for routine and long-term maintenance.
- B. 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 associated with the Reclaim Sand Day Tank #2 (EU-30B).

Authority for Requirement: DNR Construction Permits 15-A-522-S1, 22-A-238, 22-A-239, and 22-A-240

Emission Point Characteristics

This equipment shall conform to the specifications listed below.

Emission Point	Stack Height, Feet	Discharge Style	Stack Opening, inches	Stack Temperature, °F	Exhaust Flowrate, SCFM
EP 30B-1	67	Vertical, obstructed	10.4	68	250
EP 30B-2	67	Vertical, obstructed	10.4	68	250
EP 30B-3	67	Vertical, obstructed	10.4	68	250
EP 30B-4	67	Vertical, obstructed	10.4	68	250

Authority for Requirement: DNR Construction Permits 15-A-522-S1, 22-A-238, 22-A-239, and 22-A-240

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

Construction permit requires facility to develop plan for control equipment.

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: 33

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID & Description
33	21	Pouring & Cooling	Steel	10 tons/hr	CE-06 Baghouse
	63	Induction Furnace	Steel	2.2 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 97-A-659-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: PM₁₀

Emission Limit(s): 0.63 lb/hr

Authority for Requirement: DNR Construction Permit 97-A-659-S7

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/scf, 1.33 lb/hr

Authority for Requirement: 567 IAC 23.4(5)

DNR Construction Permit 97-A-659-S7

Pollutant: Single Metal HAP

Emission Limit(s): 0.01 lb/hr

Authority for Requirement: DNR Construction Permit 97-A-659-S7

Pollutant: Total Metal HAP

Emission Limit(s): 0.01 lb/hr

Authority for Requirement: DNR Construction Permit 97-A-659-S7

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 maintain the differential pressure drop across Baghouse CE-06 between 3.0- and 15.0-inches water column.

i. The owner or operator shall collect and record the pressure drop, in inches of water column, across Baghouse CE-06 daily while in operation.

- B. If the differential pressure drop falls outside the applicable range in Permit Condition A above, the owner or operator shall record the time, date, and actions taken to correct the situation. The owner or operator shall also record when the differential pressure drop across the affected baghouse has returned within the allowed range.

- C. The owner or operator shall inspect and maintain the control equipment (Baghouse CE-06) according to the manufacturer's specifications.
 - i. The owner or operator shall keep a log of all inspection and maintenance activities performed on the control equipment. At a minimum, this log shall include:
 - 1. The date that any inspection and/or maintenance was performed on the control equipment;
 - a) The owner or operator shall conduct inspection activities at a minimum of once per calendar year.
 - 2. Any issues identified during any inspection and maintenance activities;
 - 3. The date each issue was resolved; and
 - 4. Identification of the staff member performing the maintenance or inspection.

- D. The owner or operator shall only process metal at Plant Number 56-01-025 with the following characteristics:
 - i. The Single Metal HAP content shall not exceed 16 percent by weight.
 - ii. The Total Metal HAP content shall not exceed 19 percent by weight.

- E. The owner or operator shall maintain manufacturer and vendor provided information (Safety Data Sheets, technical data sheets, etc.) for the metal processed at Plant Number 56-01-025.

- F. The total amount of binder chemicals (resin and catalyst) used in the mold making operation at Plant Number 56-01-025 shall not exceed 950,000 pounds per rolling 12-month period.
 - i. The owner or operator shall record the total amount, in pounds, of binder chemicals (resin and catalyst) used every month in the mold making operation at Plant Number 56-01-025.
 - ii. The owner or operator shall calculate and record the total amount, in pounds, of binder chemicals (resin and catalyst) used in the mold making operation at Plant Number 56-01-025 on a rolling 12-month basis.

- G. The total amount of mold wash materials used in the mold making operation at Plant Number 56-01-025 shall not exceed 100,000 pounds per rolling 12-month period.
- i. The owner or operator shall record the total amount, in pounds, of mold wash materials used every month in the mold making operation at Plant Number 56-01-025.
 - ii. The owner or operator shall calculate and record the total amount, in pounds, of mold wash materials used in the mold making operation at Plant Number 56-01-025 on a rolling 12-month basis.
- H. The owner or operator shall only use mold wash materials with no more than 0.001 pounds of HAP per pound of mold wash material.
- i. The owner or operator shall maintain manufacturer and vendor provided information (Safety Data Sheets, technical data sheets, etc.) for each mold wash material used in the mold making operation at Plant Number 56-01-025.
- I. Plant No. 56-01-025 is classified as a small foundry; therefore, the owner or operator shall comply with the applicable requirements in 40 CFR Part 63, Subpart ZZZZZ (*National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources*) [§63.10880 – §63.10906], including those not specifically mentioned in this permit.
- J. Per 40 CFR §63.10885(a) and as indicated in §63.10890(a) of Subpart ZZZZZ, the owner or operator shall comply with the restricted metallic scrap requirements in §63.10885(a)(1) and/or the general iron and steel scrap requirements in §63.10885(a)(2).
- i. The owner or operator shall keep a copy of the material specifications onsite and readily available to all personnel with material acquisition duties and shall provide a copy to each of the scrap providers.
 - ii. To comply with the restricted metallic scrap requirements, the owner or operator shall prepare and operate at all times according to written material specifications for the purchase and use of only metal ingots, pig iron, slitter, or other materials that do not include post-consumer automotive body scrap, post-consumer engine blocks, post-consumer oil filters, oily turnings, lead components, chlorinated plastics, or free liquids.² The requirements for no free liquids do not apply if the owner or operator can demonstrate that the free liquid is water that resulted from scrap exposure to rain.
 - iii. To comply with the general iron and steel scrap requirements, the owner or operator shall prepare and operate at all times according to written material specifications for the purchase and use of only iron and steel scrap that has been depleted (to the extent practicable) of organics and HAP metals in the charge materials used by the iron and steel foundry.
 1. Per §63.10885(a)(2)(i), the materials specifications shall include, at a minimum, the following information:

² “Free liquids” is defined as material that fails the paint filter test by EPA Method 9095B, “Paint Filter Liquids Test” (revision 2), November 2004.

- a) Specifications for metallic scrap materials charged to a scrap preheater or metal melting furnace to be depleted (to the extent practicable) of the presence of used oil filters, chlorinated plastic parts, accessible lead-containing components (such as batteries and wheel weights), and a program to ensure the scrap materials are drained of free liquids.

- K. Per 40 CFR §63.10885(b) of Subpart ZZZZZ, for scrap containing motor vehicle scrap, the owner or operator shall procure the scrap pursuant to one of the compliance options described below for each scrap provider, contract, or shipment.
 - i. Per §63.10885(b)(1), if using the site-specific plan for mercury switches option, the owner or operator shall comply with the requirements in §63.10885(b)(1)(i) through (b)(1)(v).
 - ii. Per §63.10885(b)(2), if using the approved mercury programs option, the owner or operator shall comply with the requirements in §63.10885(b)(2)(i) through (b)(1)(iv).
 - iii. Per §63.10885(b)(3), if using the specialty metal scrap option, the owner or operator shall comply with the requirements in §63.10885(b)(3).

- L. Per 40 CFR §63.10885(b)(4) of Subpart ZZZZZ, for scrap that does not contain motor vehicle scrap, the owner or operator shall certify in the notification of compliance status and maintain records of documentation that this scrap does not contain motor vehicle scrap.

- M. Per §63.10890(b) of Subpart ZZZZZ, the owner or operator shall submit an initial notification of applicability according to §63.9(b)(2) of Subpart A.

- N. Per §63.10890(c) of Subpart ZZZZZ, the owner or operator shall submit a notification of compliance status according to §63.9(h)(1)(i) of Subpart A and as instructed in §63.10890(c) of Subpart ZZZZZ.

- O. Per 40 CFR §63.10890(d) and §63.10890(i) of Subpart ZZZZZ and as required in §63.10(b)(1) of Subpart A, the owner or operator shall maintain files of all information (including all reports and notifications) for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche.

- P. Per 40 CFR §63.10890(e) of Subpart ZZZZZ, the owner or operator shall maintain the following records according to §63.10(b)(1) of Subpart A.
 - i. Records supporting the initial notification of applicability and the notification of compliance status according to §63.10(b)(2)(xiv) of Subpart A.
 - ii. Records of written materials specifications according to §63.10885(a) and records that demonstrate compliance with the requirements for restricted metallic scrap in

- §63.10885(a)(1) and/or for the use of general scrap in §63.10885(a)(2) and for mercury in §63.10885(b)(1) through (3), as applicable.
- iii. Records documenting compliance with §63.10885(b)(4) for scrap that does not contain motor vehicle scrap.
 - iv. Records of the annual quantity and composition of each HAP-containing chemical binder or coating material used to make molds and cores. These records shall include copies of purchasing records, Safety Data Sheets, or other documentation that provides information on the binder or coating materials used.
 - v. Records of metal melt production for each calendar year.
- Q. Per 40 CFR §63.10890(f) of Subpart ZZZZZ, the owner or operator shall submit semiannual compliance reports to the Department according to the requirements in §63.10(e) of Subpart A. The report shall clearly identify any deviation from the pollution prevention management practices in §63.10885 of Subpart ZZZZZ and the corrective action taken.
- R. Per 40 CFR §63.10890(g) of Subpart ZZZZZ, the owner or operator shall submit a written notification to the Department of the initial classification of Plant No. 40-01-004 as a small foundry as required in §63.10880(f) and (g), as applicable, and for any subsequent reclassification as required in §63.10881(d)(1) or (e), as applicable.
- S. Per 40 CFR §63.10890(h) of Subpart ZZZZZ, following the initial determination for an existing affected source as a small foundry, if the annual metal melt production exceeds 20,000 tons during the preceding year, the owner or operator shall comply with the requirements for large foundries by the applicable dates in §63.10881(d)(1)(i) or (d)(1)(ii).
- T. Per 40 CFR §63.10890(i) of Subpart ZZZZZ, the owner or operator shall comply with the requirements of the General Provisions (40 CFR Part 63, Subpart A), including §§ 63.1 through 63.5; §63.6(a), (b), (c), and (e)(1); §63.9; §63.10(a), (b)(1), (b)(2)(xiv), (b)(3), (d)(1), (d)(4), and (f); and §§ 63.13 through 63.16.
- i. Per §63.6(e)(1) of Subpart A, at all times, including periods of startup, shutdown, and malfunction, the owner or operator shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.

Authority for Requirement: 567 IAC 23.1(4)"dz"
 40 CFR 63 Subpart ZZZZZ
 DNR Construction Permit 97-A-659-S7

Emission Point Characteristics

This equipment shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 31.8
Stack Opening, (inches, dia.): 50
Exhaust Flow Rate (scfm): 59,000
Exhaust Temperature (°F): 94
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 97-A-659-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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: 34-1, 34-2, 34-3, and 34-4

Associated Equipment

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID & Description	DNR Construction Permit
34-1	48	New Sand 150 Day Tank	Sand	35.62 tons/hr	CE 34-1 Bin Vent Filters	97-A-664-S3
34-2					CE 34-2 Bin Vent Filters	22-A-241
34-3					CE 34-3 Bin Vent Filters	22-A-242
34-4					CE 34-4 Bin Vent Filters	22-A-243

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: 567 IAC 23.3(2)"d"
DNR Construction Permits 97-A-664-S3, 22-A-241, 22-A-242, and 22-A-243

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.05 gr/dscf

Authority for Requirement: 567 IAC 23.4(6)
DNR Construction Permits 97-A-664-S3, 22-A-241, 22-A-242, and 22-A-243

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 develop an operating and maintenance plan for the control equipment associated with the New Sand 150-Day Tank (EU-48) that is consistent with the manufacturer's instructions for routine and long-term maintenance.
- B. 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 associated with the New Sand 150-Day Tank (EU-48).

Authority for Requirement: DNR Construction Permits 97-A-664-S3, 22-A-241, 22-A-242 and 22-A-243

Emission Point Characteristics

Emission Point	Stack Height, feet	Discharge Style	Stack Opening, inches	Stack Temperature, °F	Exhaust Flowrate, SCFM
34-1	67	Vertical, obstructed	10.4	68	300
34-2	67	Vertical, obstructed	10.4	68	300
34-3	67	Vertical, obstructed	10.4	68	300
34-4	67	Vertical, obstructed	10.4	68	300

Authority for Requirement: DNR Construction Permits 97-A-664-S3, 22-A-241, 22-A-242, and 22-A-243

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

The construction permit requires the facility to develop a plan for control equipment.

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: SCC01 (Internally Vented)

Associated Equipment

Associated Emission Unit ID Numbers: SCC01
Emissions Control Equipment ID Number: SCC01A
Emissions Control Equipment Description: Cartridge Filters

Emission Unit vented through this Emission Point: SCC01
Emission Unit Description: Tumble Blast (70 cu ft)
Raw Material/Fuel: Shot
Rated Capacity: 40 lb/hr

Applicable Requirements

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

The emissions from this equipment 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 02-A-656-S4

⁽¹⁾ An exceedance of the indicator opacity of 0% 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_{2.5}

Emission Limit(s): 0.51 lb/hr

Authority for Requirement: DNR Construction Permit 02-A-656-S4

Pollutant: PM₁₀

Emission Limit(s): 1.03 lb/hr

Authority for Requirement: DNR Construction Permit 02-A-656-S4

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.05 gr/dscf, 1.03 lb/hr

Authority for Requirement: 567 IAC 23.4(6)
DNR Construction Permit 02-A-656-S4

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-08FUG

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity
08 FUG	16A	Scrap & Charge Handling	Scrap Steel	7.00 tons/hr
	16B	Scrap & Charge Unloading	Scrap Steel	7.00 tons/hr

Applicable Requirements

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

The emissions from this equipment shall not exceed the following specified levels.

Pollutant: Opacity⁽¹⁾

Emission Limits: 40 %

Authority for Requirement: DNR Construction Permit 22-A-234
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of "no visible emissions" outside the building 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 Limits: 5.04 lb/hr, 0.1 gr/scf

Authority for Requirement: DNR Construction Permit 22-A-234
567 IAC 23.3(2)"a"

Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic 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: 52

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID & Description
52	22 ⁽¹⁾	Small Shaker Table	Steel castings	10 tons/hr	CE-12 Baghouse
	27	200 Blow System Receiving Hopper	Sand	4.44 tons/hr	
	50	Large Shaker Table	Steel castings	10 tons/hr	
	51	Bucket Elevator	Sand	4.44 tons/hr	
	52	Vibra-Mill	Sand	4.44 tons/hr	

⁽¹⁾The owner or operator does not vent EU-22 directly to the baghouse. This unit is in an open area with a drop from the EP-52 ductwork over it. This drop takes the excess airflow capacity of the baghouse to reduce dust from a high-dust area of the facility. The owner or operator estimates that 50 percent of particulate matter emissions exhausts through EP-52 and the rest (50 percent) settles out in the building and not emitted. However, the Department has assumed that no more than 0.9 percent of the sand settled out in the building, is emitted to the atmosphere.

Applicable Requirements

Emission Limits Emission Point 52 (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽²⁾

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

DNR Construction Permit 21-A-083-S2

⁽²⁾ An exceedance of the indicator opacity of “no visible emissions (No VE)” 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): 2.0 lb/hr, 0.05 gr/dscf

Authority for Requirement: 567 IAC 23.4(6)

DNR Construction Permit 21-A-083-S2

Emission Limits – Uncaptured Emissions from Small Shaker Table (EU-22) (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

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

Pollutant: Opacity

Emission Limit(s): 40%⁽³⁾

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

DNR Construction Permit 21-A-083-S2

⁽³⁾An exceedance of the indicator opacity of "no visible emissions" outside the building 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): 0.14 lb/hr, 0.05 gr/dscf

Authority for Requirement: 567 IAC 23.4(6)

DNR Construction Permit 21-A-083-S2

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 maintain the pressure drop across the baghouse (CE-12) between 2.0- and 6.0-inches water column.
 - i. The owner or operator shall collect and record the pressure drop, in inches of water column, across the baghouse (CE-12) daily while in operation.
 - ii. The owner or operator shall install a pressure drop monitoring device that shall be operated and maintained according to the manufacture's recommendations, instructions, and operating manuals.
 - iii. If the pressure drop differential falls outside the required range, the owner or operator shall record the time, date, and actions taken to correct the situation. The owner or operator shall also record when the pressure drop differential across the Baghouse (CE-12) has returned within the allowed range.

- B. The owner or operator shall inspect and maintain the control equipment according to the manufacturer's specifications.
 - i. The owner or operator shall keep a log of all inspection and maintenance activities performed on the control equipment. At a minimum, this log shall include:
 - 1. The date that any inspection and/or maintenance was performed on the control equipment;

- a) The owner or operator shall conduct inspection activities at a minimum of once per calendar year.
- 2. Any issues identified during any inspection and maintenance activities and the date each issue was resolved;
- 3. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 21-A-083-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 50

Stack Opening, (inches, dia.): 60

Exhaust Flow Rate (scfm): 60,000

Exhaust Temperature (°F): 68

Discharge Style: Vertical, unobstructed

Authority for Requirement: DNR Construction Permit 21-A-083-S2

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

See Appendix B for CAM plan

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: 53i, 54i (Internally Vented)

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	DNR Construction Permit
53i	03	Electric Sand Heater #1	Sand	20 tons/hr	15-A-524-S1
54i	04	Electric Sand Heater #2	Sand	20 tons/hr	15-A-525-S1

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 Permits 15-A-524-S1, 15-A-525-S1

⁽¹⁾ An exceedance of the indicator opacity of “no visible emissions (No VE)” 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: PM_{2.5}

Emission Limit(s): 0.25 lb/hr

Authority for Requirement: DNR Construction Permits 15-A-524-S1, 15-A-525-S1

Pollutant: PM₁₀

Emission Limit(s): 0.80 lb/hr

Authority for Requirement: DNR Construction Permits 15-A-524-S1, 15-A-525-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 2.80 lb/hr, 0.05 gr/dscf

Authority for Requirement: 567 IAC 23.4(6)

DNR Construction Permits 15-A-524-S1, 15-A-525-S1

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: 56

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity
56	15	Core Per-Mix	Resin/Catalyst/Sand	289.3 lb/hr Resin/Catalyst, 7.41 tons sand/hr

Applicable Requirements

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

The emissions from this equipment 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 15-A-523-S1

⁽¹⁾ An exceedance of the indicator opacity of "no visible emissions (No VE)" 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): 0.05 lb/hr, 0.05 gr/scf

Authority for Requirement: 567 IAC 23.4(6)

DNR Construction Permit 15-A-523-S1

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 only process metal at Plant Number 56-01-025 with the following characteristics:
 - i. The Single Metal HAP content shall not exceed 16 percent by weight.
 - ii. The Total Metal HAP content shall not exceed 19 percent by weight.
- B. The owner or operator shall maintain manufacturer and vendor provided information (Safety Data Sheets, technical data sheets, etc.) for the metal processed at Plant Number 56-01-025.
- C. The total amount of binder chemicals (resin and catalyst) used in the mold making operation at Plant Number 56-01-025 shall not exceed 950,000 pounds per rolling 12-month period.
 - i. The owner or operator shall record the total amount, in pounds, of binder chemicals (resin and catalyst) used every month in the mold making operation at

Plant Number 56-01-025.

- ii. The owner or operator shall calculate and record the total amount, in pounds, of binder chemicals (resin and catalyst) used in the mold making operation at Plant Number 56-01-025 on a rolling 12-month basis.
- D. The total amount of mold wash materials used in the mold making operation at Plant Number 56-01-025 shall not exceed 100,000 pounds per rolling 12-month period.
- i. The owner or operator shall record the total amount, in pounds, of mold wash materials used every month in the mold making operation at Plant Number 56-01-025.
 - ii. The owner or operator shall calculate and record the total amount, in pounds, of mold wash materials used in the mold making operation at Plant Number 56-01-025 on a rolling 12-month basis.
- E. The owner or operator shall only use mold wash materials with no more than 0.001 pounds of HAP per pound of mold wash material.
- i. The owner or operator shall maintain manufacturer and vendor provided information (Safety Data Sheets, technical data sheets, etc.) for each mold wash material used in the mold making operation at Plant Number 56-01-025.
- F. Plant No. 56-01-025 is classified as a small foundry; therefore, the owner or operator shall comply with the applicable requirements in 40 CFR Part 63, Subpart ZZZZZ (*National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources*) [§63.10880 – §63.10906], including those not specifically mentioned in this permit.
- G. Per 40 CFR §63.10885(a) and as indicated in §63.10890(a) of Subpart ZZZZZ, the owner or operator shall comply with the restricted metallic scrap requirements in §63.10885(a)(1) and/or the general iron and steel scrap requirements in §63.10885(a)(2).
- i. The owner or operator shall keep a copy of the material specifications onsite and readily available to all personnel with material acquisition duties and shall provide a copy to each of the scrap providers.
 - ii. To comply with the restricted metallic scrap requirements, the owner or operator shall prepare and operate at all times according to written material specifications for the purchase and use of only metal ingots, pig iron, slitter, or other materials that do not include post-consumer automotive body scrap, post-consumer engine blocks, post-consumer oil filters, oily turnings, lead components, chlorinated plastics, or free liquids.³ The requirements for no free liquids do not apply if the

³ “Free liquids” is defined as material that fails the paint filter test by EPA Method 9095B, “Paint Filter Liquids Test” (revision 2), November 2004.

owner or operator can demonstrate that the free liquid is water that resulted from scrap exposure to rain.

- iii. To comply with the general iron and steel scrap requirements, the owner or operator shall prepare and operate at all times according to written material specifications for the purchase and use of only iron and steel scrap that has been depleted (to the extent practicable) of organics and HAP metals in the charge materials used by the iron and steel foundry.
 - 1. Per §63.10885(a)(2)(i), the materials specifications shall include, at a minimum, the following information:
 - a) Specifications for metallic scrap materials charged to a scrap preheater or metal melting furnace to be depleted (to the extent practicable) of the presence of used oil filters, chlorinated plastic parts, accessible lead-containing components (such as batteries and wheel weights), and a program to ensure the scrap materials are drained of free liquids.

H. Per 40 CFR §63.10885(b) of Subpart ZZZZZ, for scrap containing motor vehicle scrap, the owner or operator shall procure the scrap pursuant to one of the compliance options described below for each scrap provider, contract, or shipment.

- i. Per §63.10885(b)(1), if using the site-specific plan for mercury switches option, the owner or operator shall comply with the requirements in §63.10885(b)(1)(i) through (b)(1)(v).
- ii. Per §63.10885(b)(2), if using the approved mercury programs option, the owner or operator shall comply with the requirements in §63.10885(b)(2)(i) through (b)(1)(iv).
- iii. Per §63.10885(b)(3), if using the specialty metal scrap option, the owner or operator shall comply with the requirements in §63.10885(b)(3).

I. Per 40 CFR §63.10885(b)(4) of Subpart ZZZZZ, for scrap that does not contain motor vehicle scrap, the owner or operator shall certify in the notification of compliance status and maintain records of documentation that this scrap does not contain motor vehicle scrap.

J. Per §63.10890(b) of Subpart ZZZZZ, the owner or operator shall submit an initial notification of applicability according to §63.9(b)(2) of Subpart A.

K. Per §63.10890(c) of Subpart ZZZZZ, the owner or operator shall submit a notification of compliance status according to §63.9(h)(1)(i) of Subpart A and as instructed in §63.10890(c) of Subpart ZZZZZ.

L. Per 40 CFR §63.10890(d) and §63.10890(i) of Subpart ZZZZZ and as required in

§63.10(b)(1) of Subpart A, the owner or operator shall maintain files of all information (including all reports and notifications) for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche.

- M. Per 40 CFR §63.10890(e) of Subpart ZZZZZ, the owner or operator shall maintain the following records according to §63.10(b)(1) of Subpart A.
- i. Records supporting the initial notification of applicability and the notification of compliance status according to §63.10(b)(2)(xiv) of Subpart A.
 - ii. Records of written materials specifications according to §63.10885(a) and records that demonstrate compliance with the requirements for restricted metallic scrap in §63.10885(a)(1) and/or for the use of general scrap in §63.10885(a)(2) and for mercury in §63.10885(b)(1) through (3), as applicable.
 - iii. Records documenting compliance with §63.10885(b)(4) for scrap that does not contain motor vehicle scrap.
 - iv. Records of the annual quantity and composition of each HAP-containing chemical binder or coating material used to make molds and cores. These records shall include copies of purchasing records, Safety Data Sheets, or other documentation that provides information on the binder or coating materials used.
 - v. Records of metal melt production for each calendar year.
- N. Per 40 CFR §63.10890(f) of Subpart ZZZZZ, the owner or operator shall submit semiannual compliance reports to the Department according to the requirements in §63.10(e) of Subpart A. The report shall clearly identify any deviation from the pollution prevention management practices in §63.10885 of Subpart ZZZZZ and the corrective action taken.
- O. Per 40 CFR §63.10890(g) of Subpart ZZZZZ, the owner or operator shall submit a written notification to the Department of the initial classification of Plant No. 40-01-004 as a small foundry as required in §63.10880(f) and (g), as applicable, and for any subsequent reclassification as required in §63.10881(d)(1) or (e), as applicable.
- P. Per 40 CFR §63.10890(h) of Subpart ZZZZZ, following the initial determination for an existing affected source as a small foundry, if the annual metal melt production exceeds 20,000 tons during the preceding year, the owner or operator shall comply with the requirements for large foundries by the applicable dates in §63.10881(d)(1)(i) or (d)(1)(ii).
- Q. Per 40 CFR §63.10890(i) of Subpart ZZZZZ, the owner or operator shall comply with the requirements of the General Provisions (40 CFR Part 63, Subpart A), including §§ 63.1

through 63.5; §63.6(a), (b), (c), and (e)(1); §63.9; §63.10(a), (b)(1), (b)(2)(xiv), (b)(3), (d)(1), (d)(4), and (f); and §§ 63.13 through 63.16.

- i. Per §63.6(e)(1) of Subpart A, at all times, including periods of startup, shutdown, and malfunction, the owner or operator shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.

Authority for Requirement: 567 IAC 23.1(4)"dz"
40 CFR 63 Subpart ZZZZZ
DNR Construction Permit 15-A-523-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 12
Stack Opening, (inches, dia.): 24
Exhaust Flow Rate (scfm): Displacement
Exhaust Temperature (°F): 70
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 15-A-523-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 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: 58i (Internally Vented)

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity
58i	07A	Mold Mixer #1	Sand, Catalyst, Wash	10 tons/hr
	07B	Mold Mixer #2	Sand, Catalyst, Wash	10 tons/hr

Applicable Requirements

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

The emissions from this equipment 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 15-A-526-S1

⁽¹⁾ An exceedance of the indicator opacity of “no visible emissions (No VE)” 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): 1.66 lb/hr, 0.05 gr/dscf

Authority for Requirement: 567 IAC 23.4(6)

DNR Construction Permit 15-A-526-S1

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 only process metal at Plant Number 56-01-025 with the following characteristics:
 - i. The Single Metal HAP content shall not exceed 16 percent by weight.
 - ii. The Total Metal HAP content shall not exceed 19 percent by weight.
- B. The owner or operator shall maintain manufacturer and vendor provided information (Safety Data Sheets, technical data sheets, etc.) for the metal processed at Plant Number 56-01-025.
- C. The total amount of binder chemicals (resin and catalyst) used in the mold making operation at Plant Number 56-01-025 shall not exceed 950,000 pounds per rolling 12-month period.

- i. The owner or operator shall record the total amount, in pounds, of binder chemicals (resin and catalyst) used every month in the mold making operation at Plant Number 56-01-025.
 - ii. The owner or operator shall calculate and record the total amount, in pounds, of binder chemicals (resin and catalyst) used in the mold making operation at Plant Number 56-01-025 on a rolling 12-month basis.
- D. The total amount of mold wash materials used in the mold making operation at Plant Number 56-01-025 shall not exceed 100,000 pounds per rolling 12-month period.
 - i. The owner or operator shall record the total amount, in pounds, of mold wash materials used every month in the mold making operation at Plant Number 56-01-025.
 - ii. The owner or operator shall calculate and record the total amount, in pounds, of mold wash materials used in the mold making operation at Plant Number 56-01-025 on a rolling 12-month basis.
- E. The owner or operator shall only use mold wash materials with no more than 0.001 pounds of HAP per pound of mold wash material.
 - i. The owner or operator shall maintain manufacturer and vendor provided information (Safety Data Sheets, technical data sheets, etc.) for each mold wash material used in the mold making operation at Plant Number 56-01-025.
- F. Plant No. 56-01-025 is classified as a small foundry; therefore, the owner or operator shall comply with the applicable requirements in 40 CFR Part 63, Subpart ZZZZZ (*National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources*) [§63.10880 – §63.10906], including those not specifically mentioned in this permit.
- G. Per 40 CFR §63.10885(a) and as indicated in §63.10890(a) of Subpart ZZZZZ, the owner or operator shall comply with the restricted metallic scrap requirements in §63.10885(a)(1) and/or the general iron and steel scrap requirements in §63.10885(a)(2).
 - i. The owner or operator shall keep a copy of the material specifications onsite and readily available to all personnel with material acquisition duties and shall provide a copy to each of the scrap providers.
 - ii. To comply with the restricted metallic scrap requirements, the owner or operator shall prepare and operate at all times according to written material specifications for the purchase and use of only metal ingots, pig iron, slitter, or other materials that do not include post-consumer automotive body scrap, post-consumer engine blocks, post-consumer oil filters, oily turnings, lead components, chlorinated

plastics, or free liquids.⁴ The requirements for no free liquids do not apply if the owner or operator can demonstrate that the free liquid is water that resulted from scrap exposure to rain.

- iii. To comply with the general iron and steel scrap requirements, the owner or operator shall prepare and operate at all times according to written material specifications for the purchase and use of only iron and steel scrap that has been depleted (to the extent practicable) of organics and HAP metals in the charge materials used by the iron and steel foundry.
 - 1. Per §63.10885(a)(2)(i), the materials specifications shall include, at a minimum, the following information:
 - a) Specifications for metallic scrap materials charged to a scrap preheater or metal melting furnace to be depleted (to the extent practicable) of the presence of used oil filters, chlorinated plastic parts, accessible lead-containing components (such as batteries and wheel weights), and a program to ensure the scrap materials are drained of free liquids.

H. Per 40 CFR §63.10885(b) of Subpart ZZZZZ, for scrap containing motor vehicle scrap, the owner or operator shall procure the scrap pursuant to one of the compliance options described below for each scrap provider, contract, or shipment.

- i. Per §63.10885(b)(1), if using the site-specific plan for mercury switches option, the owner or operator shall comply with the requirements in §63.10885(b)(1)(i) through (b)(1)(v).
- ii. Per §63.10885(b)(2), if using the approved mercury programs option, the owner or operator shall comply with the requirements in §63.10885(b)(2)(i) through (b)(1)(iv).
- iii. Per §63.10885(b)(3), if using the specialty metal scrap option, the owner or operator shall comply with the requirements in §63.10885(b)(3).

I. Per 40 CFR §63.10885(b)(4) of Subpart ZZZZZ, for scrap that does not contain motor vehicle scrap, the owner or operator shall certify in the notification of compliance status and maintain records of documentation that this scrap does not contain motor vehicle scrap.

J. Per §63.10890(b) of Subpart ZZZZZ, the owner or operator shall submit an initial notification of applicability according to §63.9(b)(2) of Subpart A.

K. Per §63.10890(c) of Subpart ZZZZZ, the owner or operator shall submit a notification of

⁴ “Free liquids” is defined as material that fails the paint filter test by EPA Method 9095B, “Paint Filter Liquids Test” (revision 2), November 2004.

compliance status according to §63.9(h)(1)(i) of Subpart A and as instructed in §63.10890(c) of Subpart ZZZZZ.

- L. Per 40 CFR §63.10890(d) and §63.10890(i) of Subpart ZZZZZ and as required in §63.10(b)(1) of Subpart A, the owner or operator shall maintain files of all information (including all reports and notifications) for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche.
- M. Per 40 CFR §63.10890(e) of Subpart ZZZZZ, the owner or operator shall maintain the following records according to §63.10(b)(1) of Subpart A.
 - i. Records supporting the initial notification of applicability and the notification of compliance status according to §63.10(b)(2)(xiv) of Subpart A.
 - ii. Records of written materials specifications according to §63.10885(a) and records that demonstrate compliance with the requirements for restricted metallic scrap in §63.10885(a)(1) and/or for the use of general scrap in §63.10885(a)(2) and for mercury in §63.10885(b)(1) through (3), as applicable.
 - iii. Records documenting compliance with §63.10885(b)(4) for scrap that does not contain motor vehicle scrap.
 - iv. Records of the annual quantity and composition of each HAP-containing chemical binder or coating material used to make molds and cores. These records shall include copies of purchasing records, Safety Data Sheets, or other documentation that provides information on the binder or coating materials used.
 - v. Records of metal melt production for each calendar year.
- N. Per 40 CFR §63.10890(f) of Subpart ZZZZZ, the owner or operator shall submit semiannual compliance reports to the Department according to the requirements in §63.10(e) of Subpart A. The report shall clearly identify any deviation from the pollution prevention management practices in §63.10885 of Subpart ZZZZZ and the corrective action taken.
- O. Per 40 CFR §63.10890(g) of Subpart ZZZZZ, the owner or operator shall submit a written notification to the Department of the initial classification of Plant No. 40-01-004 as a small foundry as required in §63.10880(f) and (g), as applicable, and for any subsequent reclassification as required in §63.10881(d)(1) or (e), as applicable.
- P. Per 40 CFR §63.10890(h) of Subpart ZZZZZ, following the initial determination for an existing affected source as a small foundry, if the annual metal melt production exceeds 20,000 tons during the preceding year, the owner or operator shall comply with the

requirements for large foundries by the applicable dates in §63.10881(d)(1)(i) or (d)(1)(ii).

Q. Per 40 CFR §63.10890(i) of Subpart ZZZZZ, the owner or operator shall comply with the requirements of the General Provisions (40 CFR Part 63, Subpart A), including §§ 63.1 through 63.5; §63.6(a), (b), (c), and (e)(1); §63.9; §63.10(a), (b)(1), (b)(2)(xiv), (b)(3), (d)(1), (d)(4), and (f); and §§ 63.13 through 63.16.

- i. Per §63.6(e)(1) of Subpart A, at all times, including periods of startup, shutdown, and malfunction, the owner or operator shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.

Authority for Requirement: 567 IAC 23.1(4)"dz"
40 CFR 63 Subpart ZZZZZ
DNR Construction Permit 15-A-526-S1

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 also shall furnish to the director copies of records required to be kept by the permit, or for information claimed to be confidential, the permittee shall furnish such records directly to the administrator of EPA along with a claim of confidentiality. *567 IAC 22.108 (9)"e"*

G9. General Maintenance and Repair Duties

The owner or operator of any air emission source or control equipment shall:

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

G10. Recordkeeping Requirements for Compliance Monitoring

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:

- a. The date, place and time of sampling or measurements
- b. The date the analyses were performed.
- c. The company or entity that performed the analyses.
- d. The analytical techniques or methods used.
- e. The results of such analyses; and
- f. The operating conditions as existing at the time of sampling or measurement.
- g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)

2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.

3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:
 - a. Comply with all terms and conditions of this permit specific to each alternative scenario.
 - b. Maintain a log at the permitted facility of the scenario under which it is operating.
 - c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 22.108(4), 567 IAC 22.108(12)*

G11. Evidence used in establishing that a violation has or is occurring.

Notwithstanding any other provisions of these rules, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any provisions herein.

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

G12. Prevention of Accidental Release: Risk Management Plan Notification and Compliance Certification

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Act, the permittee shall notify the department of this requirement. The plan shall be filed with all appropriate authorities by the deadline specified by EPA. A certification that this risk management plan is being properly implemented shall be included in the annual compliance certification of this permit. *567 IAC 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(2)*
3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*
4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*

5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 22.108(11)*

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

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

2. Minor Title V Permit Modification.

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

- ii. The permittee's suggested draft permit;
 - iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used; and
 - iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).
- c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against the facility.

3. Significant Title V Permit Modification.

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

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

G19. Duty to Obtain Construction Permits

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

G20. Asbestos

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

G21. Open Burning

The permittee is prohibited from conducting open burning, except as provided in 567 IAC 23.2. *567 IAC 23.2 except 23.2(3)"j"; 567 IAC 23.2(3)"j" - State Only*

G22. Acid Rain (Title IV) Emissions Allowances

The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated there under. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners and operators of the unit or the designated representative of the owners and operators is prohibited. Exceedences of applicable emission rates are prohibited. "Held" in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. *567 IAC 22.108(7)*

G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements

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

has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,

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

G24. Permit Reopenings

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

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

a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;

b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.

c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a"*, *567 IAC 22.108(17)"b"*

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

a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;

b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;

c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.

d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*

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

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

G25. Permit Shield

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

a. Such applicable requirements are included and are specifically identified in the permit; or

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

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

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

a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;

b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;

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

d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 22.108 (18)*

G26. Severability

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

G27. Property Rights

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

G28. Transferability

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

G29. Disclaimer

No review has been undertaken on the engineering aspects of the equipment or control equipment other than the potential of that equipment for reducing air contaminant emissions. *567 IAC 22.3(3)"c"*

G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification

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

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

Stack Test Review Coordinator
Iowa DNR, Air Quality Bureau
Wallace State Office Building
502 E 9th St.
Des Moines, IA 50319-0034
(515) 725-9545

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

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

G31. Prevention of Air Pollution Emergency Episodes

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

567 IAC 26.1(1)

G32. Contacts List

The current address and phone number for reports and notifications to the EPA administrator is:

Iowa Compliance Officer
Air Branch
Enforcement and Compliance Assurance Division
U.S. EPA Region 7
11201 Renner Blvd.
Lenexa, KS 66219
(913) 551-7020

The current address and phone number for reports and notifications to the department or the Director is:

Chief, Air Quality Bureau
Iowa Department of Natural Resources
Wallace State Office Building
502 E 9th St.
Des Moines, IA 50319-0034
(515) 725-8200

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

Field Office 1

1101 Commercial Court, Suite 10
Manchester, IA 52057
(563) 927-2640

Field Office 2

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

Field Office 3

1900 N. Grand Ave.
Spencer, IA 51301
(712) 262-4177

Field Office 4

1401 Sunnyside Lane
Atlantic, IA 50022
(712) 243-1934

Field Office 5

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

Field Office 6

1023 West Madison Street
Washington, IA 52353-1623
(319) 653-2135

Polk County Public Works Dept.

Air Quality Division
5885 NE 14th St.
Des Moines, IA 50313
(515) 286-3351

Linn County Public Health

Air Quality Branch
1020 6th Street SE
Cedar Rapids, IA 52401
(319) 892-6000

Appendix A

40 CFR, Subpart A—General Provisions: <https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-A>

40 CFR 63, Subpart ZZZZZ – National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources: <https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-ZZZZZ>

Appendix B (CAM Plans)

Keokuk Mills, LLC CAM Plan for Bin Vents (EP 1)

Daily

- Visible Emissions observations – no visible emissions during material handling operations
 - o Maintain a written record of results. If visible emissions are observed, document corrective action.
 - o If visible emissions are not resolved within 8 hours of discovery, an excess emissions report must be made and reported to IDNR.

Quarterly

- Inspect bin vent filters for leaks and wear.
- If leaks or abnormal conditions are detected, corrective actions must be implemented within 8 hours of discovery.
 - o Document any maintenance. Log filter replacement, including the location within the bin vent, and which vent was serviced.
 - o Maintain a written record of the inspection and any actions resulting from the inspection.

Semi-annually

- Every 6 months, inspect all components that are not subject to wear or plugging, including structural components, housing, ducts and hoods.
 - o If a leak is detected, corrective action must be implemented within 8 hours of discovery.
 - o Maintain a written record of the inspection and any action resulting from the inspection.

Other Requirements

- Control equipment will be operated and maintained according to the manufacturer's recommendations.
- An adequate inventory of spare parts shall be kept.
- Visible emissions observer should be trained per Method 22.

Keokuk Mills, LLC
CAM Plan for EP03, Baghouse 7 (CE02)

Daily

- The owner or operator shall maintain the differential pressure drop across Baghouse 7 (CE02) between 3.0 and 15.0” water column.
 - The owner or operator shall collect and record the pressure drop, in inches of water column, across the baghouse daily while in operation.
 - If the differential pressure drop falls outside of the compliance range (3-15”), the owner or operator shall record the time, date, and actions taken to correct the situation.
 - For any deviation from the pressure drop range, record when the differential pressure drop across the baghouse has returned to within the allowed range.

Quarterly

- Inspect baghouse bags for leaks and wear.
- If leaks or abnormal conditions are detected, corrective actions must be implemented within 8 hours of discovery.
 - Document any maintenance. Log bag replacement, including the location within the baghouse of the bags replaced.
 - Maintain a written record of the inspection and any actions resulting from the inspection. Records shall include the date the issue was resolved and the staff member performing the maintenance or inspection.

Semi-annually

- Every 6 months, inspect all components that are not subject to wear or plugging, including structural components, housing, ducts and hoods.
 - If a leak is detected, corrective action must be implemented within 8 hours of discovery.
 - Maintain a written record of the inspection and any action resulting from the inspection. Records shall include the date the issue was resolved and the staff member performing the maintenance or inspection.

Other Requirements

- Control equipment will be operated and maintained according to the manufacturer’s recommendations.
- An adequate inventory of spare parts shall be kept.

Keokuk Mills, LLC
CAM Plan for EP10, Baghouse 9 (CE09)

Daily

- The owner or operator shall maintain the differential pressure drop across Baghouse 9 (CE09) between 3.0 and 15.0” water column.
 - The owner or operator shall collect and record the pressure drop, in inches of water column, across the baghouse daily while in operation.
 - If the differential pressure drop falls outside of the compliance range (3-15”), the owner or operator shall record the time, date, and actions taken to correct the situation.
 - For any deviation from the pressure drop range, record when the differential pressure drop across the baghouse has returned to within the allowed range.

Quarterly

- Inspect baghouse bags for leaks and wear.
- If leaks or abnormal conditions are detected, corrective actions must be implemented within 8 hours of discovery.
 - Document any maintenance. Log bag replacement, including the location within the baghouse of the bags replaced.
 - Maintain a written record of the inspection and any actions resulting from the inspection. Records shall include the date the issue was resolved and the staff member performing the maintenance or inspection.

Semi-annually

- Every 6 months, inspect all components that are not subject to wear or plugging, including structural components, housing, ducts and hoods.
 - If a leak is detected, corrective action must be implemented within 8 hours of discovery.
 - Maintain a written record of the inspection and any action resulting from the inspection. Records shall include the date the issue was resolved and the staff member performing the maintenance or inspection.

Other Requirements

- Control equipment will be operated and maintained according to the manufacturer’s recommendations.
- An adequate inventory of spare parts shall be kept.

Keokuk Mills, LLC
CAM Plan for EP52, Baghouse 12 (CE12)

Daily

- The owner or operator shall maintain the differential pressure drop across Baghouse 12 (CE12) between 2.0 and 6.0” water column.
 - The owner or operator shall collect and record the pressure drop, in inches of water column, across the baghouse daily while in operation.
 - If the differential pressure drop falls outside of the compliance range (2-6”), the owner or operator shall record the time, date, and actions taken to correct the situation.
 - For any deviation from the pressure drop range, record when the differential pressure drop across the baghouse has returned to within the allowed range.

Quarterly

- Inspect baghouse bags for leaks and wear.
- If leaks or abnormal conditions are detected, corrective actions must be implemented within 8 hours of discovery.
 - Document any maintenance. Log bag replacement, including the location within the baghouse of the bags replaced.
 - Maintain a written record of the inspection and any actions resulting from the inspection. Records shall include the date the issue was resolved and the staff member performing the maintenance or inspection.

Semi-annually

- Every 6 months, inspect all components that are not subject to wear or plugging, including structural components, housing, ducts and hoods.
 - If a leak is detected, corrective action must be implemented within 8 hours of discovery.
 - Maintain a written record of the inspection and any action resulting from the inspection. Records shall include the date the issue was resolved and the staff member performing the maintenance or inspection.

Other Requirements

- Control equipment will be operated and maintained according to the manufacturer’s recommendations.
- An adequate inventory of spare parts shall be kept.