

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

Name of Permitted Facility: Sivyer Steel
Facility Location: 225 South 33rd Street
Bettendorf, Iowa 52722
Air Quality Operating Permit Number: 02-TV-015R1
Expiration Date: 3/31/2019
Permit Renewal Application Deadline: 9/30/2018
EIQ Number: 92-4700
Facility File Number: 82-02-004

Responsible Official

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

For the Director of the Department of Natural Resources

Lori Hanson, Supervisor of Air Operating Permits Section

Date

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Abbreviations

acfm.....	actual cubic feet per minute
CFR.....	Code of Federal Regulation
CE	control equipment
CEM.....	continuous emission monitor
°F.....	degrees Fahrenheit
EIQ.....	emissions inventory questionnaire
EP.....	emission point
EU	emission unit
gr./dscf	grains per dry standard cubic foot
gr./100 cf.....	grains per one hundred cubic feet
IAC.....	Iowa Administrative Code
IDNR.....	Iowa Department of Natural Resources
MVAC.....	motor vehicle air conditioner
NAICS.....	North American Industry Classification system
NSPS	new source performance standard
ppmv	parts per million by volume
lb./hr	pounds per hour
lb./MMBtu	pounds per million British thermal units
SCC.....	Source Classification Codes
scfm.....	standard cubic feet per minute
SIC	Standard Industrial Classification
TPY	tons per year
USEPA.....	United States Environmental Protection Agency

Pollutants

PM.....	particulate matter
PM ₁₀	particulate matter ten microns or less in diameter
SO ₂	sulfur dioxide
NO _x	nitrogen oxides
VOC	volatile organic compound
CO.....	carbon monoxide
HAP.....	hazardous air pollutant

I. Facility Description and Equipment List

Facility Name: Sivyer Steel

Permit Number: 02-TV-015R1

Facility Description: Steel Foundry (SIC 3324)

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	Iowa DNR Construction Permit Number
01	01	Charge Handling	-
2-1	02	Electric Arc Furnace 1	06-A-1051-S2
2-2			06-A-1052-S2
2-3	03	Electric Arc Furnace 2	06-A-1053-S2
2-4			06-A-1054-S2
2-5			06-A-1055-S2
2-6			06-A-1056-S2
2-7	04	Electric Arc Furnace 3	06-A-1057-S2
2-8			06-A-1058-S2
03	34	No Bake Conveyor	74-A-154-S6
	37	No Bake Screen	
	103	Sand Reclaimer	
	127	256 Mixer	
	133	Sand Cooling	
	134	Sand Elevator	
	135	Sand Separator	
	144	256 Sand Heater 1	
145	256 Sand Heater 2		
04	35	No Bake Conveyor	76-A-222-S4
	39	No Bake Shake Out	
15	23	Ceramic Coating of Molds	11-A-564
16	24	Ceramic Coating of Molds	11-A-565
24	41	Oxygen Natural Gas Cutting	-
30	47	Wheelabrator # 1	-
32	49	Wheelabrator # 3	-
39	57	Casting Cleaning/Chipper	02-A-136-S1
40	58		02-A-137-S1
41	59		02-A-138-S1
42	60		02-A-139-S1
43	61		02-A-140-S1

Emission Point Number	Emission Unit Number	Emission Unit Description	Iowa DNR Construction Permit Number
44	62, 63, 64, 65, 66, 66A, 67, 68, 69, 70, 71, 160	Heat Treatment of Castings	-
45	72	Sand Transport (Bulk Sand Loading and Storage)	-
46	73	Painting of Castings	02-A-141
50	83, 84, 86, 87, 88	Casting Welding	-
71	106	Manual Welder	-
	107	Manual Welder	-
72	108	Manual Welder	-
	109	Arc Welder	
73	110	Arc Air Welder	-
	111	Arc Air Welder	
	136	Arc Air Welder	
	137	Arc Air Welder	
EF Mixers	23	Mold Wash Coating	10-A-485-S3
	24	Core Wash Coating	
	112	500 Palmer Mixer	
	113	Baby Palmer Mixer	
	114	Core Room Mixer	
	116	Chromate Mixer	
	117	P900 Mixer	
86	126	Gudgeon Sand Reclaim	10-A-465-S2
	148	Vibramill	
	150	Sand Bin A	
	151	Sand Bin B	
	152	Sand Bin C	
	154	Sand Bin 4	
	155	Sand Bin 5	
	156	Sand Bin 6	
	157	Sand Bin 7	
	158	Sand Bin 8	

87	51C	Cut-off Saw	11-A-566-S1
	118	Loop Mixer	
	125	Large Floor Mixer	
	128	Silo D Mechanical Reclaim	
	129	Silo E Thermal Reclaim	
	130	Silo H Mechanical Reclaim	
	131	Silo G Thermal Reclaim	
	138	Large Floor Mixer	
	139	Loop Sand Heater	
	140	Large Floor Bin 1	
	141	Large Floor Bin 2	
	142	Loop Sand Heater 2	
	143	Large Floor Sand Heater	
	51A	Shotblast Unit	
90	89	Burn-off of Castings	-
91	150	Emergency Generator	-
92	151	Torit for Butler Building	-
93	152	Wheelabrator DC	-
132	132	Table Blast	-
EF1, EF3	123	Pouring & Cooling Floor Roof Vent	10-A-466-S1 10-A-467-S1
Boilers	NA	220 Line Boiler 221 Line Boiler Main Office #1 Boiler Main Office #2 Boiler 256 Line Boiler Locker Room #1 Boiler Locker Room #2 Boiler Locker Room #3 Boiler	-

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
MW	Maintenance Welding
PW	Parts Washers (2)

II. Plant-Wide Conditions

Facility Name: Sivyer Steel
Permit Number: 02-TV-015R1

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

Permit Duration

The term of this permit is:
Commencing on: 4/1/2014
Ending on: 3/31/2019

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

Emission Limits

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

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

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

Particulate Matter:

No person shall cause or allow the emission of particulate matter from any source in excess of the emission standards specified in this chapter, except as provided in 567 – Chapter 24. For sources constructed, modified or reconstructed after July 21, 1999, the emission of particulate matter from any process shall not exceed an emission standard of 0.1 grain per dry standard cubic foot of exhaust gas, except as provided in 567 – 21.2(455B), 23.1(455B), 23.4(455B) and 567 – Chapter 24.

For sources constructed, modified or reconstructed prior to July 21, 1999, the emission of particulate matter from any process shall not exceed the amount determined from Table I, or amount specified in a permit if based on an emission standard of 0.1 grain per standard cubic foot of exhaust gas or established from standards provided in 23.1(455B) and 23.4(455B).
Authority for Requirement: 567 IAC 23.3(2)"a"

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

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

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

NSPS and NESHAP Applicability

The emissions units of Sivyer Steel are not subject to a NSPS subpart at this time.

This facility is subject to, and must comply with the requirements of 40 CFR 63 Subpart EEEEE, "National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries".

Authority for Requirement: 40 CFR 63 Subpart EEEEE
567 IAC 23.1(3)"de"

The following emission units at Sivyer Steel are affected sources under Subparts A (General Provisions, 40 CFR §63.1 – 40 CFR §63.15) and MMMM [National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products, 40 CFR §63.3880 – 40 CFR §63.3981] of the National Emission Standard for Hazardous Air Pollutants (NESHAP):

EP-46, EU-73, Painting of Castings

Per the applicability criteria in Sec. 63.3881 and the definition of sources Sec 63.3882, this is existing sources subject to 40 CFR Subpart MMMM. Attached as Appendix A to this permit, and

hereby incorporated by reference is 40 CFR 63 Subpart M MMM. The permittee shall comply with all applicable requirements of Subpart M MMM.

A summary of the applicable Subpart M MMM requirements are shown below.

(Note: Citation numbering is consistent with 40 CFR Part 63. These citations are provided for reference only. If the Subpart M MMM Requirements are modified in the future, Sivyer Steel is responsible for demonstrating compliance with 40 CFR 63 Subpart M MMM as printed in the Federal Register regardless of whether the citations listed below are modified.)

Emission Limits

There are five source categories potentially subject to Subpart M MMM if they meet the definition of affected source and use 250 gal. per year of coatings that contain HAPs. Below is a table of the five source categories and the HAP limit for existing sources. See section 63.3981 for a complete definition of each source category. Organic HAP Emission Limits	Existing Affected Source
General	2.6 lb HAP/gal of coating
High Performance Source	27.5 lb HAP/gal of coating
Magnet Wire	1.0 lb HAP/gal of coating
Rubber to Metal	37.7 lb HAP/gal of coating
Extreme Performance	12.4 lb HAP/gal of coating

Compliance Options

You must include all coatings (as defined in Section 63.3981), thinners and/or other additives, and cleaning materials used in the affected source when determining whether the organic HAP emission rate is equal to or less than the applicable emission limit in Section 63.3890. To make this determination, you must use at least one of the three compliance options summarized below.

- A) Compliant material option – coatings are less than or equal to the limit. Thinners, additives and cleaning materials do NOT contain any HAPs.
- B) Emission rate without add-on control – Taking all materials into account, the organic HAP emission rate is less than or equal to the applicable limit determined on a monthly basis.
- C) Emission rate with add-on control – Taking all materials into account, the organic HAP emission rate is less than or equal to the applicable limit determined on a monthly basis, but with the use of control equipment.

* If the facility selects compliance option A or B, they are not required to meet any operating limits or work practice standards.

Notifications, Reports and Records

A. Notifications

- 1. Initial notification for this existing affected source must be submitted no later than 1 year after January 2, 2005.
- 2. Notification of compliance status – 30 days following the end of the initial compliance period.

B. Reports

1. Semi-annual compliance reports
2. Performance test reports (if using add-on control)
3. Start-up, shutdown, malfunction report (if using add-on control)

C. Records (See Section 63.3930 for a complete list of requirements)

1. Copy of each notification and report
2. Information from materials suppliers
3. Record of each type of operation
4. Record of HAP content

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

The boilers at this facility are subject to the National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR Part 63 Subpart DDDDD].

Authority for Requirement: 40 CFR 63 Subpart DDDDD
567 IAC 23.1(4)"dd"

The emergency generator engine, EP91, EU150 is subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590(a)(1)(ii) this compression ignition emergency engine, located at a major source, is a new stationary RICE as it was constructed on or after June 12, 2006.

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

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

III. Emission Point-Specific Conditions

Facility Name: Sivyer Steel
Permit Number: 02-TV-015R1

Emission Point ID Number: 01

Associated Equipment

Associated Emissions Unit ID Numbers 01

Emission Unit vented through this Emission Point: 01
Emission Unit Description: Charge Handling
Raw Material/Fuel: Scrape Steel
Rated Capacity: 15 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: 40%
Authority for Requirement: 567 IAC 23.3(2)"d"

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

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 2-1, EP 2-2, EP 2-3, EP 2-4, EP 2-5, EP 2-6, EP 2-7, EP 2-8

Associated Equipment

Associated Emissions Unit ID Numbers: EU-02, EU-03, EU-04

Emissions Control Equipment ID Number: CE-2 (The baghouse, CE-2 is a modular unit and EP 2-1 connects with EP 2-2, EP 2-3, EP 2-4, EP 2-5, EP 2-6, EP 2-7, and EP 2-8 respectively.)

Emissions Control Equipment Description: Modular Baghouse

Emission Unit vented through this Emission Point: EU-02, EU-03, EU-04

Emission Unit Description: Electric Arc furnaces 1, 2, and 3

Raw Material/Fuel: Steel

Rated Capacity: 5 Tons/hr per furnace

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⁾

⁽¹⁾ Opacity limits are:

- Per 567 IAC 23.3(2)"d" the limit on the electric arc furnaces is 40%. 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).
- Per 40 CFR §63.7690(a)(7), fugitive emissions shall not be discharged to the atmosphere from the foundry operations that exhibit opacity greater than 20% on a six (6) minute average except for one (1) six (6) minute average per hour that does not exceed 27%.

⁽²⁾ IAC reference to Subpart EEEEE (National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries; 40 CFR §63.7680 – 40 CFR §63.7765) of the National Emission Standards for Hazardous Air Pollutants (NESHAP).

Authority for Requirement: 567 IAC 23.3(2)"d"⁽¹⁾ & 567 IAC 23.1(4)"de"⁽²⁾

Iowa DNR Construction Permits 06-A-1051-S2, 06-A-1052-S2, 06-A-1053-S2, 06-A-1054-S2, 06-A-1055-S2, 06-A-1056-S2, 06-A-1057-S2, 06-A-1058-S2

Pollutant: PM₁₀

Emission Limit(s): 0.24 lb/hr

Authority for Requirement: Iowa DNR Construction Permits 06-A-1051-S2, 06-A-1052-S2, 06-A-1053-S2, 06-A-1054-S2, 06-A-1055-S2, 06-A-1056-S2, 06-A-1057-S2, 06-A-1058-S2

Pollutant: PM

Emission Limit(s): 0.005 gr/dscf ⁽²⁾

⁽²⁾ IAC reference to Subpart EEEEE (National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries; 40 CFR §63.7680 – 40 CFR §63.7765) of the National Emission Standards for Hazardous Air Pollutants (NESHAP).

Authority for Requirement: 567 IAC 23.1(4)"de"

Iowa DNR Construction Permits 06-A-1051-S2, 06-A-1052-S2,
06-A-1053-S2, 06-A-1054-S2, 06-A-1055-S2, 06-A-1056-S2,
06-A-1057-S2, 06-A-1058-S2

Pollutant: SO₂

Emission Limit(s): 500 ppmv

Authority for Requirement: 567 IAC 23.3(3)"e"

Iowa DNR Construction Permits 06-A-1051-S2, 06-A-1052-S2,
06-A-1053-S2, 06-A-1054-S2, 06-A-1055-S2, 06-A-1056-S2,
06-A-1057-S2, 06-A-1058-S2

Pollutant: Total Metal Hazardous Air Pollutants (HAPs)

Emission Limit(s): 0.0004 gr/dscf ⁽²⁾

⁽²⁾ IAC reference to Subpart EEEEE (National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries; 40 CFR §63.7680 – 40 CFR §63.7765) of the National Emission Standards for Hazardous Air Pollutants (NESHAP).

Authority for Requirement: 567 IAC 23.1(4)"de" ⁽²⁾

Iowa DNR Construction Permits 06-A-1051-S2, 06-A-1052-S2,
06-A-1053-S2, 06-A-1054-S2, 06-A-1055-S2, 06-A-1056-S2,
06-A-1057-S2, 06-A-1058-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 56

Stack Opening, (inches, dia.): 30

Exhaust Flow Rate (scfm): 13,590 (from each module)

Exhaust Temperature (°F): 125

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permits 06-A-1051-S2, 06-A-1052-S2,
06-A-1053-S2, 06-A-1054-S2, 06-A-1055-S2, 06-A-1056-S2,
06-A-1057-S2, 06-A-1058-S2

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

Operational Limits & Requirements

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

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

This emission unit is not subject to any of the New Source Performance Standards (NSPS).

The facility (plant number 82-02-004) is subject to Subparts A (*General Provisions*; 40 CFR §63.1 – 40 CFR §63.15) and EEEEE (*National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries*; 40 CFR §63.7680 – 40 CFR §63.7765) of the National Emission Standards for Hazardous Air Pollutants (NESHAP).

Failure to include any NSPS or NESHAP requirements as a part of this permit does not relieve the permittee from the requirement to comply with all applicable NSPS or NESHAP requirements.

Operating Limits

Operating limits for this emission unit shall be:

- A. As specified in 40 CFR §63.7700, the owner or operator shall comply with the certification requirements of 40 CFR §63.7700(b) or prepare and implement a plan for the selection and inspection of scrap according to the requirements of CFR §63.7700(c).
- B. As specified in 40 CFR §63.7710(b), the owner or operator shall prepare and operate at all times according to a written operation and maintenance plan for each capture and collection system and control device and emissions source subject to an emission limit in 40 CFR §63.7690(a) which includes, but is not limited to the following:
 1. As specified in 40 CFR §63.7710(b)(3), a preventative maintenance plan for the baghouse associated with this emission point, including a preventative maintenance schedule that is consistent with the manufacturer's instructions and for routine and long-term maintenance.
 2. As specified in §63.7710(b)(4), a site-specific monitoring plan for each bag leak detection system. The owner and operator shall operate and maintain the bag leak detection system according to the site-specific monitoring plan at all times. The plan must address all the items identified in 40 CFR §63.7710(b)(4)(i) through 40 CFR §63.7710(b)(4)(v).
 3. As specified in §63.7710(b)(5), a corrective action plan for the baghouse associated with this emission point. The plan must include the requirement that, in the event a bag leak detection system alarm is triggered, the owner or operator must initiate corrective action to determine the cause of the alarm within one (1) hour of the alarm, initiate corrective action to correct the cause of the problem within twenty-four (24) hours of the alarm, and complete the corrective action as soon practicable.
- C. As specified in 40 CFR §63.7741(b), the owner or operator shall install, operate, and maintain a bag leak detection system in accordance with 40 CFR §63.7741(b)(1) through 40 CFR §63.7741(b)(7).

Reporting & Record keeping

Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Department. Per 40 CFR §63.7753, the facility must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. Records shall be legible and maintained in an orderly manner.

Per 40 CFR §63.7753, the owner or operator shall keep each record onsite for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report and record. Per 40 CFR §63.7745(b), the owner or operator shall keep all operation and maintenance plans required by NESHAP Subpart EEEEE for the life of the iron foundry or until the iron foundry is no longer subject to the requirements of NESHAP Subpart EEEEE

- A. Per 40 CFR §63.7740(b), the owner or operator shall at all times monitor the relative change in PM loading using a bag leak detection system according requirements in §63.7741(b) and conduct inspections according to the requirements specified in (c)(1) through (8) of §63.7740(c). The requirements of 40 CFR §63.7740(c)(1) through 40 CFR §63.7740(c)(8) are:
1. Per 40 CFR §63.7740(c)(1), monitor the pressure drop across each cell of the baghouse associated with this emission point each day to ensure pressure drop is in normal operating range identified in manual.
 2. As specified in §63.7740(c)(2), confirm that dust is being removed from hoppers through weekly visual inspections or other means of ensuring the proper functioning of removal mechanisms.
 3. Per 40 CFR §63.7740(c)(3), check compressed air supply for pulse-jet baghouses each day.
 4. Per 40 CFR §63.7740(c)(4), monitor cleaning cycles to ensure proper operation using appropriate methodology.
 5. Per 40 CFR §63.7740(c)(5), check bag cleaning mechanisms for proper functioning through monthly visual inspection or equivalent means.
 6. Per 40 CFR §63.7740(c)(6), make monthly visual checks of bag tension on reverse air and shaker-type baghouses to ensure that bags are not kinked (knead or bent) or lying on their sides.
 7. Per 40 CFR §63.7740(c)(7), confirm the physical integrity of the baghouse associated with this emission point through quarterly visual inspections of the baghouse interior for air leaks.
 8. Per 40 CFR §63.7740(c)(8), inspect fans for wear, material buildup, and corrosion through quarterly visual inspections, vibration detectors, or equivalent means.
- B. Per 40 CFR §63.7743(c)(1), maintain records of the times the bag leak detection system alarm sounded, and for each valid alarm, the time owner/operator initiate corrective action, the corrective action taken, and the date on which corrective action was completed.
- C. Per 40 CFR §63.7743(c)(2), inspect and maintain the baghouse associated with this emission point according to the requirements of 40 CFR §63.7740(c)(1) through 40 CFR §63.7740(c)(8) and recording all information needed to document conformance with these requirements.

- D. Per 40 CFR §63.7744, the owner or operators shall maintain records that document continuous compliance with certification requirements in 40 CFR §63.7700(b) or with procedures in scrap selection and inspection plan required in 40 CFR §63.7700(c). Records documenting compliance with the scrap selection and inspection plan must include a copy (kept onsite) of the procedures used by scrap supplier for either removing accessible mercury switches or for purchasing automobile bodies that have had mercury switches removed, as applicable.
- E. Per 40 CFR 63.7745(a)(2), record all information needed to document conformance with preventive maintenance plan required by 40 CFR §63.7710(b)(3).
- F. Per 40 CFR 63.7745(a)(3), record all information needed to document conformance with site specific monitoring plan required by 40 CFR §63.7710(b)(4).
- G. Per 40 CFR 63.7745(a)(4), record all information needed to document conformance with corrective action plan required by 40 CFR §63.7710(b)(5).
- H. Per 40 CFR §63.7752(a), the owner or operator shall keep the records specified in 40 CFR §63.7752(a)(1) through 40 CFR §63.7752(a)(4).
- I. Per 40 CFR §63.7752(c), the owner or operator shall keep records required by 40 CFR §63.7743, 40 CFR §63.7744, and 40 CFR §63.7745 to show continuous compliance with each emission limitation, work practice standard, and operation and maintenance requirement that applies.

Monitoring Requirements

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

Stack Testing:

Pollutant: Particulate Matter ⁽¹⁾

Stack Test to be Completed by – Once every five (5) years

Test Method - 40 CFR 60, Appendix A, Method 5

Authority for Requirement: Iowa DNR Construction Permits 06-A-1051-S2, 06-A-1052-S2, 06-A-1053-S2, 06-A-1054-S2, 06-A-1055-S2, 06-A-1056-S2, 06-A-1057-S2, 06-A-1058-S2

⁽¹⁾ Per 40 CFR §63.7731, the owner or operator shall conduct subsequent performance tests to demonstrate compliance with all applicable PM or total metal HAP emission limitations no less frequently than once every five (5) years.

Pollutant: Opacity ⁽²⁾

Stack Test to be Completed by – Once every six (6) months

Test Method - 40 CFR 60, Appendix A, Method 9

Authority for Requirement: Iowa DNR Construction Permits 06-A-1051-S2, 06-A-1052-S2, 06-A-1053-S2, 06-A-1054-S2, 06-A-1055-S2, 06-A-1056-S2, 06-A-1057-S2, 06-A-1058-S2

⁽²⁾ Per 40 CFR §63.7731(b), subsequent performance tests shall be conducted no less frequently than once every six (6) months. Opacity limit is for the building or structure housing any iron and steel foundry emissions source (i.e., not point specific).

Pollutant: Total Metal Hazardous Air Pollutants (HAPs) ⁽¹⁾

Stack Test to be Completed by – Once every five (5) years

Test Method - 40 CFR 60, Appendix A, Method 18

Authority for Requirement: Iowa DNR Construction Permits 06-A-1051-S2, 06-A-1052-S2, 06-A-1053-S2, 06-A-1054-S2, 06-A-1055-S2, 06-A-1056-S2, 06-A-1057-S2, 06-A-1058-S2

⁽¹⁾ Per 40 CFR §63.7731, the owner or operator shall conduct subsequent performance tests to demonstrate compliance with all applicable PM or total metal HAP emission limitations no less frequently than once every five (5) years.

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

See Section IV. CPMS and CAM Plans

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-03

Associated Equipment

Associated Emissions Unit ID Numbers: EU-34, EU-37, EU-103, EU-127, EU-133, EU-134, EU-135, EU-144, EU-145

Emissions Control Equipment ID Number: CE-03

Emissions Control Equipment Description: Baghouse

EP	EU	EU Description	Raw Material	Rated Capacity	Control Equipment
03	EU 34	No Bake Conveyor	Sand	10 Tons/hr	Baghouse (CE-03)
	EU 37	No Bake Screen	Sand	10 Tons/hr	
	EU 103	Sand Reclaimer	Sand	20 Tons/hr	
	EU 127	256 Mixer	Sand	30 Tons/hr	
	EU 133	Sand Cooling	Sand	10 Tons/hr	
	EU 134	Sand Elevator	Sand	10 Tons/hr	
	EU 135	Sand Separator	Sand	10 Tons/hr	
	EU 144	256 Sand Heater	Sand	30 Tons/hr	
	EU 145	256 Sand Heater 2	Sand	30 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⁾

⁽¹⁾ An exceedance of the indicator opacity 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).

Authority for Requirement: 567 IAC 23.3(2)"d"
Iowa DNR Construction Permit 74-A-154-S6

Pollutant: PM₁₀

Emission Limit(s): 1.82 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 74-A-154-S6

Pollutant: Particulate Matter

Emission Limit(s): 1.82 lb/hr, 0.05gr/dscf

Authority for Requirement: 567 IAC 23.4(6)
Iowa DNR Construction Permit 74-A-154-S6

Operational Limits & Requirements

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

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

This emission unit is not subject to any of the New Source Performance Standards (NSPS).

The facility (plant number 82-02-004) is subject to Subparts A (*General Provisions*; 40 CFR §63.1 – 40 CFR §63.15) and EEEEE (*National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries*; 40 CFR §63.7680 – 40 CFR §63.7765) of the National Emission Standards for Hazardous Air Pollutants (NESHAP).

Failure to include any NSPS or NESHAP requirements as a part of this permit does not relieve the permittee from the requirement to comply with all applicable NSPS or NESHAP requirements.

Operating Limits:

Operating limits for this emission unit shall be:

- A. Operate the baghouse according to manufacturer's specifications.

Authority for Requirement: Iowa DNR Construction Permit 74-A-154-S6

Reporting & Recordkeeping:

Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. These records shall show the following:

- A. Maintain records of the maintenance performed on the baghouse. The records at a minimum shall indicate when filter bags are replaced and when inspections of the baghouse have been conducted.

Authority for Requirement: Iowa DNR Construction Permit 74-A-154-S6

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 31.2

Stack Opening, (inches, dia.): 30 x 49

Exhaust Flow Rate (scfm): 43,000

Exhaust Temperature (°F): 70

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 74-A-154-S6

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

Monitoring Requirements

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

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 Section IV. CPMS and CAM Plans

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-04

Associated Equipment

Associated Emissions Unit ID Numbers: EU-35, EU-39

Emissions Control Equipment ID Number: CE-04

Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: EU-35

Emission Unit Description: No Bake Conveyor

Raw Material/Fuel: Sand

Rated Capacity: 30 Tons/hour

Emission Unit vented through this Emission Point: EU-39

Emission Unit Description: No Bake Shake Out

Raw Material/Fuel: Sand

Rated Capacity: 50 Tons/hour

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 % ⁽¹⁾

⁽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).

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

Iowa DNR Construction Permit 76-A-222-S4

Pollutant: PM₁₀

Emission Limit(s): 1.17 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 76-A-222-S4

Pollutant: Particulate Matter

Emission Limit(s): 1.17 lb/hr, 0.1gr/dscf

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

Iowa DNR Construction Permit 76-A-222-S4

Operational Limits & Requirements

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

Operating Limits:

Operating limits for this emission unit shall be:

- A. Operate the baghouse according to manufacturer's specifications.

Authority for Requirement: Iowa DNR Construction Permit 76-A-222-S4

Reporting & Record keeping:

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

- A. Maintain records of the maintenance performed on the baghouse. The records at a minimum shall indicate when filter bags are replaced and when inspections of the baghouse have been conducted.

Authority for Requirement: Iowa DNR Construction Permit 76-A-222-S4

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 31.4

Stack Opening, (inches, dia.): 30 x 48

Exhaust Flow Rate (scfm): 43,000

Exhaust Temperature (°F): 70

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 76-A-222-S4

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

Monitoring Requirements

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

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 Section IV. CPMS and CAM Plans

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-15 (Internally Vented)

Associated Equipment

Associated Emissions Unit ID Numbers: EU-23

Emission Unit vented through this Emission Point: EU-23

Emission Unit Description: Ceramic Coating of Molds

Raw Material/Fuel: Detergent

Rated Capacity: 2.4 Gal/hr

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

⁽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).

Authority for Requirement: 567 IAC 23.3(2)"d"
Iowa DNR Construction Permit 11-A-564

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"
Iowa DNR Construction Permit 11-A-564

Pollutant: Volatile Organic Compounds (VOCs)

Emission Limit(s): 5.0 Tons/yr ⁽²⁾

⁽²⁾ Synthetic minor limit: Total for EU 23 and EU 24

Authority for Requirement: Iowa DNR Construction Permit 11-A-564

Operational Limits & Requirements

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

Operating Limits

Operating limits for this emission unit shall be:

- A. The amount of VOC containing detergent used in EU 23 and EU 24 shall not exceed 3400 gallons per rolling 12 month period.
- B. The VOC content of any detergent used in this unit shall not exceed 2.9 pounds per gallon.

Authority for Requirement: Iowa DNR Construction Permit 11-A-564

Reporting & Record keeping:

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

- A. Record the amount of detergent used in EU 23 and EU 24, in gallons. Calculate and record monthly and rolling 12 month totals.
- B. Record the VOC content of any detergent used, in pounds per gallon.

Authority for Requirement: Iowa DNR Construction Permit 11-A-564

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-16 (Internally Vented)

Associated Equipment

Associated Emissions Unit ID Numbers: EU-24

Emission Unit vented through this Emission Point: EU-24

Emission Unit Description: Ceramic Coating of Molds

Raw Material/Fuel: Detergent

Rated Capacity: 2.4 Gal/hr

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

⁽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).

Authority for Requirement: 567 IAC 23.3(2)"d"
Iowa DNR Construction Permit 11-A-565

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"
Iowa DNR Construction Permit 11-A-565

Pollutant: Volatile Organic Compounds (VOCs)

Emission Limit(s): 5.0 Tons/yr ⁽²⁾

⁽²⁾ Synthetic minor limit: Total for EU 23 and EU 24

Authority for Requirement: Iowa DNR Construction Permit 11-A-565

Operational Limits & Requirements

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

Operating Limits

Operating limits for this emission unit shall be:

- A. The amount of VOC containing detergent used in EU 23 and EU 24 shall not exceed 3400 gallons per rolling 12 month period.
- B. The VOC content of any detergent used in this unit shall not exceed 2.9 pounds per gallon.

Authority for Requirement: Iowa DNR Construction Permit 11-A-565

Reporting & Record keeping:

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

- A. Record the amount of detergent used in EU 23 and EU 24, in gallons. Calculate and record monthly and rolling 12 month totals.
- B. Record the VOC content of any detergent used, in pounds per gallon.

Authority for Requirement: Iowa DNR Construction Permit 11-A-565

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-24 (Internally Vented)

Associated Equipment

Associated Emissions Unit ID Numbers: EU-41

Emission Unit vented through this Emission Point: EU-41
Emission Unit Description: Oxygen Natural Gas Cutting
Raw Material/Fuel: Oxygen, Natural Gas, Steel
Rated Capacity: 2.34 MMcf/hr, .02 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
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a"

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

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-30, EP-32

Associated Equipment

Associated Emissions Unit ID Numbers: EU-47, EU-49
Emissions Control Equipment ID Number: CE-30, CE-32
Emissions Control Equipment Description: Baghouses

Emission Unit vented through this Emission Point (EP-30): EU-47
Emission Unit Description: Wheelabrator #1
Raw Material/Fuel: Steel Shot
Rated Capacity: .33 Tons/hr

Emission Unit vented through this Emission Point (EP-32): EU-49
Emission Unit Description: Wheelabrator #3
Raw Material/Fuel: Steel Shot
Rated Capacity: .33 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
Emission Limit(s): 1.95 lb/hr, 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)

Baghouse Agency Operation and Maintenance Plan EP-30; EP-32

Control Equipment Type: Baghouse
Manufacturer: Wheelabrator
Model: 145 KD
Equipment Controlled: EU-47 Wheelabrator #1, EU-49 Wheelabrator #3

Weekly Maintenance Procedures:

The facility will monitor the pressure drop across the baghouse on a weekly basis. If the baghouse is operating outside of 2-8" of water, the baghouse will be pulsed. If this does not return the pressure drop to the normal range within eight hours, the equipment will be inspected to determine the cause of the abnormal pressure readings. Corrective action will be initiated within eight hours to bring the baghouse back within normal operating parameters. Visible emissions will be observed weekly to ensure no visible emissions during the operation of the arc furnaces. If visible emissions are observed, this would be an exceedance, not a violation and corrective action will be initiated as soon as possible but no later than eight hours. If weather conditions prevent the observer from conducting an opacity observation, this should be noted and a reading should be attempted the following day and each subsequent day until a reading is taken or there have been three consecutive unsuccessful attempts to take a reading.

Monthly Maintenance Procedures:

- The baghouse will be pulsed monthly to ensure that the pulsing function is working properly
- The hopper will be inspected to ensure proper performance

Quarterly Maintenance Procedures:

- Thoroughly inspect bags for leaks and wear. Look for obvious holes or tears in the bags.
- Document any bag changes and the date of the change on a bag diagram shown on work orders.

Semi-Annual Maintenance Procedures:

- Inspect all components not subject to wear or plugging such as the equipment housing, duct work and collection hoods. If any defective equipment is noted, the equipment should be repaired or replaced promptly with action initiated within 8 hours of discovery.

Recordkeeping:

The following records should be kept for a period not less than five years:

- Weekly visible emissions readings
- Weekly pressure drop across the baghouse
- Monthly inspection report
- Quarterly inspection report
- Semi-annual inspection report
- Maintenance records

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-39, EP-40, EP-41, EP-42, EP-43 (Internally Vented)

Associated Equipment

Associated Emissions Unit ID Numbers: EU-57, EU-58, EU-59, EU-60, EU-61

EP	EU	EU Description	Raw Material	Rated Capacity
39	57	Casting Cleaning/Chipper	Steel	0.5 Tons/hr
40	58	Casting Cleaning/Chipper	Steel	0.5 Tons/hr
41	59	Casting Cleaning/Chipper	Steel	0.5 Tons/hr
42	60	Casting Cleaning/Chipper	Steel	0.5 Tons/hr
43	61	Casting Cleaning/Chipper	Steel	0.5 Tons/hr

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

⁽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).

Authority for Requirement: 567 IAC 23.3(2)"d"
Iowa DNR Construction Permits 02-A-136-S1, 02-A-137-S1,
02-A-138-S1, 02-A-139-S1, 02-A-140-S1

Pollutant: PM₁₀

Emission Limit(s): 0.2 lb/hr

Authority for Requirement: Iowa DNR Construction Permits 02-A-136-S1, 02-A-137-S1,
02-A-138-S1, 02-A-139-S1, 02-A-140-S1

Pollutant: Particulate Matter

Emission Limit(s): 0.20 lb/hr, 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"
Iowa DNR Construction Permits 02-A-136-S1, 02-A-137-S1,
02-A-138-S1, 02-A-139-S1, 02-A-140-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet from the ground)	Stack Opening (inches)	Stack Exhaust Rate (scfm)	Stack Temperature (°F)	Discharge Type	Authority for Requirement
39	34.6	24	5005	Ambient	Vertical Unobstructed	02-A-136-S1
40	34.6	24	5005	Ambient	Vertical Unobstructed	02-A-137-S1
41	29.6	24	5005	Ambient	Vertical Unobstructed	02-A-138-S1
42	29.6	24	5005	Ambient	Vertical Unobstructed	02-A-139-S1
43	29.6	24	5005	Ambient	Vertical Unobstructed	02-A-140-S1

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

Monitoring Requirements

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

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-44 (Internally Vented)

Associated Equipment

Associated Emissions Unit ID Numbers: EU-62, EU-63, EU-64, EU-65, EU-66, EU-66A, EU-67, EU-68, EU-69, EU-70, EU-71, EU-160

Emission Unit vented through this Emission Point: EU-62, EU-63, EU-64, EU-65, EU-66, EU-66A, EU-67, EU-68, EU-69, EU-70, EU-71, EU-160

Emission Unit Description: Heat Treatment of Castings

Raw Material/Fuel: Natural Gas

Rated Capacity: 0.01 MMcf/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

Emission Limit(s): 0.1 gr/dscf

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

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv

Authority for Requirement: 567 IAC 23.3(3)"e"

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-45

Associated Equipment

Associated Emissions Unit ID Numbers: EU-72

Emission Unit vented through this Emission Point: EU-72
Emission Unit Description: Sand Transport (Bulk Sand Loading and Storage)
Raw Material/Fuel: Sand
Rated Capacity: 1 Ton/hr, 3.25 Acres Storage

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: Fugitive Dust

Emission Limit(s): No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

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

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-46

Associated Equipment

Associated Emissions Unit ID Numbers: EU-73
Emissions Control Equipment ID Number: CE-46
Emissions Control Equipment Description: Mat Filter

Emission Unit vented through this Emission Point: EU-73
Emission Unit Description: Painting of Castings
Raw Material/Fuel: Paint
Rated Capacity: 7.5 gal/hr

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

⁽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).

Authority for Requirement: 567 IAC 23.3(2)"d"
Iowa DNR Construction Permit 02-A-141

Pollutant: PM₁₀

Emission Limit(s): 0.360 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 02-A-141

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: 567 IAC 23.4(13)
Iowa DNR Construction Permit 02-A-141

Operational Limits & Requirements

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

NESHAP Applicability

This unit is subject to the requirements of 40 CFR Part 63, Subpart M, National Emission Standards for Hazardous Air Pollutants: Surface Coating of Miscellaneous Metal Parts and Products (567 IAC 23.1(4)"cm"). This unit is also subject to the applicable requirements of the General Provisions (§§ 63.1 through 63.15) per Table 2 to Part 63, Subpart M. See the Plant-Wide section.

Authority for Requirement: 40 CFR 63 Subpart M
567 IAC 23.1(4)"cm"

Operating Limits

Operating limits for this emission unit shall be:

1. The solids content of the as-sprayed material is limited to 10.0 pounds per gallon.
2. The VOC content of the as-sprayed material is limited to 4.0 pounds per gallon.
3. The Painting of Castings Paint Booth consisting of emission point 46 is limited to 5000 gallons per rolling 12-month period of as-sprayed for paint and solvent usage.
4. The solvent is limited to a maximum VOC content of 7.5 pounds per gallon.
5. The Painting of Casting Paint Booth consisting of emission point 46 is limited to 500 gallons per rolling 12 month period of solvent usage.
6. This paint booth is limited to the spraying or operation of one (1) paint gun at any time.

Authority for Requirement: Iowa DNR Construction Permit 02-A-141

Reporting & Recordkeeping

The following records shall be maintained on site for five (5) years and available for inspection upon request by representatives of the Department of Natural Resources:

1. Retain Material Safety Data Sheet (MSDS) of all paints and solvents used in the Spray Paint Booth.
2. Record the quantity of paint and solvent used in a rolling 12-month period.
3. Maintain records documenting maintenance of control equipment.

Authority for Requirement: Iowa DNR Construction Permit 02-A-141

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 23

Stack Opening, (inches, dia.): 44

Exhaust Flow Rate (scfm): 34,300

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 02-A-141

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

Monitoring Requirements

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

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)

Paint Booth Agency Operation & Maintenance Plan for EP-46, EU-73

Weekly

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

Record Keeping and Reporting

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

Quality Control

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-50 (Internally Vented)

Associated Equipment

Associated Emissions Unit ID Numbers: EU-83, EU-84, EU-85, EU-86, EU-87, EU-88

Emission Unit vented through this Emission Point: EU-83, EU-84, EU-85, EU-86, EU-87, EU-88

Emission Unit Description: Casting Welding

Raw Material/Fuel: Welding Wire

Rated Capacity: 10,500 Feet/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

Emission Limit(s): 0.1 gr/dscf

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

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-71 (Internally Vented)

Associated Equipment

Associated Emissions Unit ID Numbers: EU-106, EU-107

Emission Unit vented through this Emission Point: EU-106, EU-107
Emission Unit Description: Manual Welding
Raw Material/Fuel: Welding Wire
Rated Capacity: 3,500 Feet/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
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a"

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-72 (Internally Vented)

Associated Equipment

Associated Emissions Unit ID Numbers: EU-108, EU-109

Emission Unit vented through this Emission Point: EU-108, EU-109
Emission Unit Description: Manual Welder (EU-108), Arc Welder (EU-109)
Raw Material/Fuel: Welding Wire
Rated Capacity: 3,500 Feet/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
Emission Limit(s): 0.1gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a"

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-73 (Internally Vented)

Associated Equipment

Associated Emissions Unit ID Numbers: EU-110, EU-111, EU-135, EU-137

Emission Unit vented through this Emission Point: EU-110, EU-111, EU-135, EU-137

Emission Unit Description: Arc Air Welders

Raw Material/Fuel: Welding Wire

Rated Capacity: 7,000 Feet/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

Emission Limit(s): 0.1gr/dscf

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

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-EF Mixers (Internally Vented)

Associated Equipment

Associated Emissions Unit ID Numbers: EU-112, EU-114, EU-116, EU-117, EU-153

EP	EU	EU Description	Raw Material	Rated Capacity	Control Equipment
EP-EF Mixers	EU 23	Mold Wash Coating	Coating	2.4 gal/hr	Dry Filters, CE LO
	EU 24	Core Wash Coating	Coating	2.4 gal/hr	Dry Filters, CE LO
	EU 112	500 Palmer Mixer	Sand	15 tons/hour	Baghouse, CE 74
	EU 113	Baby Palmer Mixer	Sand	3 tons/hour	NA
	EU 114	Core Room Mixer	Sand	9 tons/hour	
	EU 116	Chromate Mixer	Sand	9 tons/hour	
	EU 117	P900 Mixer	Sand	3.75 tons/hour	

Applicable Requirements

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

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

Pollutant: Opacity;

- Emission Limit(s): Per 567 IAC 23.3(2)"d" the limit on EP EF Mixers is 40%.
- Per 40 CFR §63.7690(a)(7), fugitive emissions shall not be discharged to the atmosphere from the foundry operations that exhibit opacity greater than 20% on a six (6) minute average except for one (1) six (6) minute average per hour that does not exceed 27%.

Authority for Requirement: 567 IAC 23.1(4)"de" ⁽¹⁾

Iowa DNR Construction Permit 10-A-485-S3

⁽¹⁾ IAC reference to Subpart EEEEE (National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries; 40 CFR §63.7680 – 40 CFR §63.7765) of the National Emission Standards for Hazardous Air Pollutants (NESHAP).

Pollutant: Particulate Matter

Emission Limit(s): 0.05gr/dscf

Authority for Requirement: 567 IAC 23.4(6)

Iowa DNR Construction Permit 10-A-485-S3

Pollutant: Volatile Organic Compounds (VOCs)

Emission Limit(s): 200 Tons/yr ⁽²⁾

Facility-wide limit for all mixing and core/mold wash coating operations established in earlier versions of this permit.

Authority for Requirement: Iowa DNR Construction Permit 10-A-485-S3

Operational Limits & Requirements

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

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

This emission unit is not subject to any of the New Source Performance Standards (NSPS).

The facility (plant number 82-02-004) is subject to Subparts A (*General Provisions*; 40 CFR §63.1 – 40 CFR §63.15) and EEEEE (*National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries*; 40 CFR §63.7680 – 40 CFR §63.7765) of the National Emission Standards for Hazardous Air Pollutants (NESHAP).

Failure to include any NSPS or NESHAP requirements as a part of this permit does not relieve the permittee from the requirement to comply with all applicable NSPS or NESHAP requirements.

Operating Limits:

Operating limits for this emission unit shall be:

- A. Maintain the control equipment according to the manufacturer's specifications.
- B. The amount of part I binder used in all mixers shall not exceed 200,000 pounds per rolling 12-month period.
- C. The amount of part II binder used in all mixers shall not exceed 180,000 pounds per rolling 12-month period.
- D. The amount of part III binder used in all mixers shall not exceed 20,000 pounds per rolling 12-month period.
- E. The amount of resin used in all mixers shall not exceed 3,000,000 pounds per rolling 12-month period.
- F. The amount of catalyst used in all mixers shall not exceed 750,000 pounds per rolling 12-month period.
- G. The amount of refractory coating used facility-wide shall not exceed 990,000 pounds per rolling 12-month period.
- H. The amount of isopropyl alcohol (IPA) used facility-wide shall not exceed 350,000 pounds per rolling 12-month period.
- I. Per 40 CFR §63.7700(a), the owner or operator shall either:
 - (1) Comply with the scrap certification requirements of 40 CFR §63.7700(b) or
 - (2) Prepare and implement a plan for the selection and inspection of scrap according to the requirements of 40 CFR §63.7700(c).
- J. Per 40 CFR §63.7710(b), the owner or operator shall prepare and operate at all times according to a written operation and maintenance plan. Each plan shall contain the elements described in 40 CFR §63.7710(b)(1) – 40 CFR §63.7710(b)(6).

- K. The facility (plant number 82-02-004) shall:
- (1) Do all operation and maintenance required by NESHAP Subpart EEEEE per 40 CFR §63.7741 not specified above; and,
 - (2) Do all monitoring required by NESHAP Subpart EEEEE per 40 CFR §63.7740 not specified above.

Authority for Requirement: Iowa DNR Construction Permit 10-A-485-S3

Reporting & Recordkeeping

Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. These records shall show the following:

- A. Record any maintenance performed on the control equipment.
- B. Record the amount of part I binder used in all mixers, in pounds. Calculate and record monthly and rolling 12-month totals.
- C. Record the amount of part II binder used in all mixers, in pounds. Calculate and record monthly and rolling 12-month totals.
- D. Record the amount of part III binder used in all mixers, in pounds. Calculate and record monthly and rolling 12-month totals.
- E. Record the amount of resin used in all mixers, in pounds. Calculate and record monthly and rolling 12-month totals.
- F. Record the amount of catalyst used in all mixers, in pounds. Calculate and record monthly and rolling 12-month totals.
- G. Record the amount of refractory coating used facility-wide, in pounds. Calculate and record monthly and rolling 12-month totals.
- H. Record the amount of isopropyl alcohol (IPA) used facility-wide, in pounds. Calculate and record monthly and rolling 12-month totals.
- I. Calculate the amount of VOC and HAP emissions from all mixing and core/mold wash coating operations. Record monthly and rolling 12 month totals.
- J. The facility shall keep records clearly showing the emission factor for each binder, catalyst and resin used in determining VOC and HAP emissions.
- K. The facility shall keep records clearly showing the transfer efficiency, destruction efficiency, and retention factor for each refractory coating and IPA used in determining VOC and HAP emissions.
- L. Maintain MSDS sheets for all materials used in the mixers.
- M. Per 40 CFR §63.7753, the owner or operator shall keep all records related to NESHAP Subpart EEEEE onsite for at least two (2) years after the date of each occurrence, measurement, maintenance, corrective action, report, and record.
- N. Per 40 §63.7745(b), the owner or operator shall keep all operation and maintenance plans

required by NESHAP Subpart EEEEE for the life of the iron foundry or until the iron foundry is no longer subject to the requirements of NESHAP Subpart EEEEE.

- O. The owner or operator shall keep all records as required by 40 CFR §63.7744, 40 CFR §63.7745, and 40 CFR §63.7752

Authority for Requirement: Iowa DNR Construction Permit 10-A-485-S3

Monitoring Requirements

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

Stack Testing:

Pollutant: Opacity ⁽¹⁾

Stack Test to be Completed by – Once every six (6) months

Test Method - 40 CFR 60, Appendix A, Method 9

Authority for Requirement: Iowa DNR Construction Permit 10-A-485-S3

⁽¹⁾ Per 40 CFR §63.7731(b), subsequent performance tests shall be conducted no less frequently than once every six (6) months.

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-86

Associated Equipment

Associated Emissions Unit ID Numbers: EU-126, EU-148, EU-150, EU-151, EU-152, EU-154, EU-155, EU-156, EU-157, EU-158

Emissions Control Equipment ID Number: CE-86

Emissions Control Equipment Description: Baghouse

EP	EU	EU Description	Raw Material	Rated Capacity	Control Equipment
86	126	Gudgeon Sand Reclaim	Sand	4 Tons/hr	Baghouse (CE 86)
	148	Vibramill	Sand	9 Tons/hr	
	150	Sand Bin A	Sand	95 Tons/hr	
	151	Sand Bin B	Sand	95 Tons/hr	
	152	Sand Bin C	Sand	95 Tons/hr	
	154	Sand Bin 4	Sand	100 Tons/hr	
	155	Sand Bin 5	Sand	100 Tons/hr	
	156	Sand Bin 6	Sand	100 Tons/hr	
	157	Sand Bin 7	Sand	80 Tons/hr	
	158	Sand Bin 8	Sand	75 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): Per 567 IAC 23.3(2)"d" the limit on EP EF Mixers is 40%.
- Per 40 CFR §63.7690(a)(7), fugitive emissions shall not be discharged to the atmosphere from the foundry operations that exhibit opacity greater than 20% on a six (6) minute average except for one (1) six (6) minute average per hour that does not exceed 27%.

Authority for Requirement: 567 IAC 23.1(4)"de" ⁽¹⁾

Iowa DNR Construction Permit 10-A-465-S2

⁽¹⁾ IAC reference to Subpart EEEEE (National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries; 40 CFR §63.7680 – 40 CFR §63.7765) of the National Emission Standards for Hazardous Air Pollutants (NESHAP).

Pollutant: Pollutant: PM₁₀

Emission Limit(s): 2.70 lbs/hr

Authority for Requirement: Iowa DNR Construction Permit 10-A-465-S2

Pollutant: Particulate Matter

Emission Limit(s): 2.70 lbs/hr, 0.05gr/dscf

Authority for Requirement: 567 IAC 23.4(7)

Iowa DNR Construction Permit 10-A-465-S2

Operational Limits & Requirements

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

NSPS and NESHAP Applicability

These emission units are not subject to the New Source Performance Standards (NSPS) at this time as there are no applicable subparts for its source category.

The facility (plant number 82-02-004) is subject to Subparts A (*General Provisions*; 40 CFR §63.1 – 40 CFR §63.15) and EEEEE (*National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries*; 40 CFR §63.7680 – 40 CFR §63.7765) of the National Emission Standards for Hazardous Air Pollutants (NESHAP).

Operating Limits:

Operating limits for this emission unit shall be:

- A. The baghouse (CE 86) shall be operated and maintained according to the manufacturer's specifications.

Reporting & Recordkeeping

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

- A. A log of all maintenance and inspection activities performed on the baghouse (CE 86). This log shall include, but is not necessarily limited to:
 - The date and time any inspection and/or maintenance was performed on the baghouse (CE 86);
 - Any issues identified during the inspection;
 - Any issues addressed during the maintenance activities;
 - Identification of the staff member performing the maintenance or inspection.
- B. Per 40 CFR §63.7753, the owner or operator shall keep all records related to NESHAP Subpart EEEEE onsite for at least two (2) years after the date of each occurrence, measurement, maintenance, corrective action, report, and record.
- C. Per 40 §63.7745(b), the owner or operator shall keep all operation and maintenance plans required by NESHAP Subpart EEEEE for the life of the iron foundry or until the iron foundry is no longer subject to the requirements of NESHAP Subpart EEEEE.
- D. The owner or operator shall keep all records as required by 40 CFR §63.7744, 40 CFR §63.7745, and 40 CFR §63.7752

Authority for Requirement: Iowa DNR Construction Permit 10-A-465-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 65
- Stack Opening, (inches, dia.): 50
- Exhaust Flow Rate (scfm): 30,000
- Exhaust Temperature (°F): 160
- Discharge Style: Vertical Unobstructed
- Authority for Requirement: Iowa DNR Construction Permit 10-A-465-S2

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

Monitoring Requirements

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

Stack Testing:

- Pollutant: Opacity ⁽²⁾
- Stack Test to be Completed by – Every 6 months ⁽³⁾
- Test Method - 40 CFR 60, Appendix A, Method 9
- Authority for Requirement: Iowa DNR Construction Permit 10-A-465-S2

⁽²⁾ Testing shall be conducted on the foundry operations to demonstrate compliance with 40 CFR §63.10895(e).

⁽³⁾ Per 40 CFR §63.7731(b), subsequent performance tests shall be conducted no less frequently than once every six (6) months.

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

See Section IV. CPMS and CAM Plans

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-87

Associated Equipment

Associated Emissions Unit ID Numbers: EU-51C, EU-118, EU-125, EU-128, EU-129, EU-130, EU-131, EU-138, EU-139, EU-140, EU-141, EU-142, EU-143

Emissions Control Equipment ID Number: CE-87

Emissions Control Equipment Description: Baghouse

EP	EU	EU Description	Raw Material	Rated Capacity
87	EU 51C	Cut-off Saw	Steel	0.03 ton/hour
	EU 118	Loop Mixer	Sand	30 ton/hour
	EU 125	Large Floor Mixer	Sand	60 ton/hour
	EU 128	Silo D Mechanical Reclaim	Sand	60 ton/hour
	EU 129	Silo E Thermal Reclaim	Sand	60 ton/hour
	EU 130	Silo H Mechanical Reclaim	Sand	36 ton/hour
	EU 131	Silo G Thermal Reclaim	Sand	36 ton/hour
	EU 138	Large Floor Mixer	Sand	60 ton/hour
	EU 139	Loop Sand Heater	Sand	36 ton/hour
	EU 140	Large Floor Bin 1	Sand	60 ton/hour
	EU 141	Large Floor Bin 2	Sand	60 ton/hour
	EU 142	Loop Sand Heater 2	Sand	36 ton/hour
	EU 143	Large Floor Sand Heater	Sand	60 ton/hour
	EU 51A	Shotblast Unit	Sand	5 tons/hour

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽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).

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

Iowa DNR Construction Permit 11-A-566-S1

Pollutant: PM₁₀

Emission Limit(s): 2.11 lbs/hr

Authority for Requirement: Iowa DNR Construction Permit 11-A-566-S1

Pollutant: Particulate Matter

Emission Limit(s): 2.11 lbs/hr, 0.05 gr/dscf

Authority for Requirement: 567 IAC 23.4(6)

Iowa DNR Construction Permit 11-A-566-S1

Pollutant: Volatile Organic Compounds (VOCs)

Emission Limit(s): 200 Tons/yr⁽²⁾

⁽²⁾ Facility-wide emission limit for all mixing equipment.

Authority for Requirement: Iowa DNR Construction Permit 11-A-566-S1

Operational Limits & Requirements

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

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

This emission unit is not subject to any of the New Source Performance Standards (NSPS).

The facility (plant number 82-02-004) is subject to Subparts A (*General Provisions*; 40 CFR §63.1 – 40 CFR §63.15) and EEEEE (*National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries*; 40 CFR §63.7680 – 40 CFR §63.7765) of the National Emission Standards for Hazardous Air Pollutants (NESHAP).

Failure to include any NSPS or NESHAP requirements as a part of this permit does not relieve the permittee from the requirement to comply with all applicable NSPS or NESHAP requirements.

Operating Limits

Operating limits for this emission unit shall be:

- A. Maintain the control equipment according to the manufacturer's specifications.
- B. The amount of part I binder used in all mixers shall not exceed 200,000 pounds per rolling 12 month period.
- C. The amount of part II binder used in all mixers shall not exceed 180,000 pounds per rolling 12 month period.
- D. The amount of part III binder used in all mixers shall not exceed 20,000 pounds per rolling 12 month period.
- E. The amount of resin used in all mixers shall not exceed 3,000,000 pounds per rolling 12 month period.
- F. The amount of catalyst used in all mixers shall not exceed 750,000 pounds per rolling 12 month period.

Authority for Requirement: Iowa DNR Construction Permit 11-A-566-S1

Reporting & Recordkeeping

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

- A. Record any maintenance performed on the control equipment.
- B. Record the amount of part I binder used in all mixers, in pounds. Calculate and record monthly and rolling 12 month totals.
- C. Record the amount of part II binder used in all mixers, in pounds. Calculate and record monthly and rolling 12 month totals.
- D. Record the amount of part III binder used in all mixers, in pounds. Calculate and record monthly and rolling 12 month totals.
- E. Record the amount of resin used in all mixers, in pounds. Calculate and record monthly and rolling 12 month totals.
- F. Record the amount of catalyst used in all mixers, in pounds. Calculate and record monthly and rolling 12 month totals.
- G. Calculate the amount of VOC and HAP emissions from all mixing operations. Record monthly and rolling 12 month totals.
- H. Maintain MSDS sheets for all materials used in the mixers.

Authority for Requirement: Iowa DNR Construction Permit 11-A-566-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

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

Stack Opening, (inches, dia.): 50

Exhaust Flow Rate (scfm): 42,500

Exhaust Temperature (°F): 70

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 11-A-566-S1

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

Monitoring Requirements

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

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 Section IV. CPMS and CAM Plans

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-90

Associated Equipment

Associated Emissions Unit ID Numbers: EU-89

EP	EU	EU Description	Raw Material	Rated Capacity
90	EU 89	Burn-off of Castings	Steel Castings	0.08 ton/hour

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40%

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

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

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

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-91

Associated Equipment

Associated Emissions Unit ID Numbers: EU-150

Emission Unit vented through this Emission Point: EU-150

Emission Unit Description: Emergency Generator (Construction Date: 9/6/12)

Raw Material/Fuel: Diesel

Rated Capacity: 125 kW (Engine; 185 H.P., 6.4 Liter and 6 Cylinder)

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

Emission Limit(s): 0.1 gr/dscf

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

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"(2)

Operational Limits & Requirements

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

Process throughput:

1. No person shall allow, cause or permit the combustion of number 1 or number 2 fuel oil exceeding a sulfur content of 0.5 percent by weight.

Authority for Requirement: 567 IAC 23.3(3)"b"(1)

Reporting & Record keeping:

The following records shall be maintained on-site for five (5) years and available for inspection upon request by representatives of the Department of Natural Resources:

1. The facility shall monitor the percent of sulfur by weight in the fuel oil as delivered. The documentation may be vendor supplied or facility generated.
2. The Title V permit requires this unit to follow the reporting and record keeping requirements found in the Plant-Wide Conditions section of this permit.

Authority for Requirement: 567 IAC 22.108(3)

NESHAP:

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

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

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

Emission Standards (for engines with displacement (L/cyl) < 10):

According to 40 CFR 60.4205(b) and 4202, you must comply with the following emission standards in grams/kW-hr (grams/HP-hr):

Engine Displacement (l/cyl)	Maximum Engine Power	Model Year(s)	NMHC + NOx	CO	PM	Opacity	Rule Ref		
Disp. < 10	kW < 8 (HP < 11)	2007	7.5 (5.6)	8.0 (6.0)	0.80 (0.60)	(1)	(2)		
		2008+			0.40 (0.30)		(3)		
	8 ≤ kW < 19 (11 ≤ HP < 25)	2007		6.6 (4.9)	0.80 (0.60)		(2)		
		2008+		0.40 (0.30)	(3)				
	19 ≤ kW < 37 (25 ≤ HP < 50)	2007		5.5 (4.1)	0.60 (0.45)		(2)		
		2008+		0.30 (0.22)	(3)				
	37 ≤ kW < 75 (50 ≤ HP < 100)	2007		7.5 (5.6)	5.0 (3.7)		0.40 (0.30)	(1)	(2)
		2008+		4.7 (3.5)					
	75 ≤ kW < 130 (100 ≤ HP < 175)	2007+		4.0 (3.0)	5.0 (3.7)		0.30 (0.22)		
	130 ≤ kW < 225 (175 ≤ HP < 302)								
	225 ≤ kW < 450 (302 ≤ HP < 604)								
	450 ≤ kW < 560 (604 ≤ HP < 751)								
560 < kW ≤ 2237 (751 < HP ≤ 3000)	6.4 (4.8)								
2237 < kW (3000 < HP)	2007 - 2010	HC: 1.3 (1.0) NOx: 9.2	11.4 (8.5)	0.54 (0.40)	-	(4)			

		(6.9)				
	2011+	6.4 (4.8)	3.5 (2.6)	0.20 (0.15)	(1)	(2)

⁽¹⁾ Exhaust opacity must not exceed: 20 percent during the acceleration mode; 15 percent during the lugging mode; and 50 percent during the peaks in either the acceleration or lugging modes.

⁽²⁾ 40 CFR 89.112 and 40 CFR 89.113.

⁽³⁾ Table 2 to Subpart III and 40 CFR 1039.105.

⁽⁴⁾ Table 1 to Subpart III.

Emission Standards (for engines with $10 \leq \text{Displacement (l/cyl)} < 30$):

According to 40 CFR 60.4205(b) and 4202, you must comply with the following emission standards in grams/kW-hr (grams/HP-hr):

Engine Displacement (liters/cylinder)	Maximum Engine Power	Model Year	HC + NO _x	CO	PM	Rule Ref
$10 \leq \text{Disp.} < 15$	All power levels	2007 - 2012	7.8 (5.8)	5.0 (3.7)	0.27 (0.20)	(1)
	kW < 2000 (HP < 2682)	2013+	6.2 (4.6)		0.14 (0.10)	(2)
	2000 ≤ kW < 3700 (2682 ≤ HP < 4962)		7.8 (5.8)		0.27 (0.20)	(1)
	3700 ≤ kW (4962 ≤ HP)					
$15 \leq \text{Disp.} < 20$	kW < 3300 (HP < 4425)	2007 - 2012	8.7 (6.5)	5.0 (3.7)	0.5 (0.37)	(1)
	3300 ≤ kW (4425 ≤ HP)		9.8 (7.3)			
	All power levels	2013	9.8 (7.3)			
	kW < 2000 (HP < 2682)	2014+	7.0 (5.2)		0.34 (0.25)	(2)
	2000 ≤ kW (2682 ≤ HP)		9.8 (7.3)		0.5 (0.37)	(1)
$20 \leq \text{Disp.} < 25$	All power levels	2007 - 2013		5.0 (3.7)	0.5 (0.37)	(1)
	kW < 2000 (HP < 2682)	2014+	9.8 (7.3)		0.27 (0.20)	(2)
	2000 ≤ kW (2682 ≤ HP)				0.5 (0.37)	(1)
$25 \leq \text{Disp.} < 30$	All power levels	2007 - 2013	11.0 (8.2)	5.0 (3.7)	0.5 (0.37)	(1)
	kW < 2000 (HP < 2682)	2014+	9.8 (7.3)		0.27 (0.20)	(2)
	2000 ≤ kW (2682 ≤ HP)		11.0 (8.2)		0.5 (0.37)	(1)

⁽¹⁾ 40 CFR 94.8.

⁽²⁾ 40 CFR 1042.101.

Fuel Requirements (diesel):

You must use diesel fuel that has a maximum sulfur content of 15 ppm (0.0015%) by weight and a minimum cetane index of 40 or a maximum aromatic content of 35 percent by volume. 40 CFR 60.4207 and 40 CFR 80.510(b).

Compliance Requirements:

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

Maximum Engine Power	Initial Test	Subsequent Test
HP < 100	Within 1 year of non-permitted action ⁽¹⁾	Not required
100 ≤ HP ≤ 500	Within 1 year of engine startup, or non-permitted action ⁽¹⁾	Not required
500 < HP	Within 1 year of engine startup, or non-permitted action ⁽¹⁾	Every 8,760 hours or 3 years, whichever comes first

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

Operating and Recordkeeping Requirements

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

Engine power	Starting model year
19 ≤ KW < 56 (25 ≤ HP < 75)	2013
56 ≤ KW < 130 (75 ≤ HP < 175)	2012
130 ≤ KW (175 ≤ HP)	2011

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

If your emergency engine has a maximum engine power of more than 100 HP and operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 40 CFR 60.4211(f)(2)(ii) and (iii) or operates for the purposes specified in 40 CFR 60.4211(f)(3)(i), you must submit an annual report according to the requirements in 40 CFR 60.4214(d)(1) through (3). See 40 CFR 60.4214(d) for more information.

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-92

Associated Equipment

Associated Emissions Unit ID Numbers: EU-151

Emission Unit vented through this Emission Point: EU-151

Emission Unit Description: Torit for Butler Building

Raw Material/Fuel: NA

Rated Capacity: 60,000 cfm

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

Emission Limit(s): 0.1 gr/dscf

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

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-93 (Internally Vented)

Associated Equipment

Associated Emissions Unit ID Numbers: EU-152

Emission Unit vented through this Emission Point: EU-152

Emission Unit Description: Wheelabrator DC

Raw Material/Fuel: Steel Shot

Rated Capacity: .33 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

Emission Limit(s): 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: EP-EF1, EP-EF3

Associated Equipment

Associated Emissions Unit ID Numbers: EU-123

Emission Unit vented through this Emission Point: EU-123
Emission Unit Description: Pouring & Cooling Floor Roof Vent
Raw Material/Fuel: Steel
Rated Capacity: 20 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): Per 567 IAC 23.3(2)"d" the limit on EP EF Mixers is 40%.
- Per 40 CFR §63.7690(a)(7), fugitive emissions shall not be discharged to the atmosphere from the foundry operations that exhibit opacity greater than 20% on a six (6) minute average except for one (1) six (6) minute average per hour that does not exceed 27%.

Authority for Requirement: 567 IAC 23.1(4)"de" ⁽¹⁾

Iowa DNR Construction Permits 10-A-466-S1, 10-A-467-S1

⁽²⁾ IAC reference to Subpart EEEEE (National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries; 40 CFR §63.7680 – 40 CFR §63.7765) of the National Emission Standards for Hazardous Air Pollutants (NESHAP).

Pollutant: PM₁₀

Emission Limit(s): 1.79 lb/hr ⁽²⁾

⁽¹⁾ Based on 95% confidence of stack test of 5/19/09.

Authority for Requirement: Iowa DNR Construction Permits 10-A-466-S1, 10-A-467-S1

Pollutant: Particulate Matter

Emission Limit(s): 1.79 lb/hr ⁽²⁾, 0.01 gr/dscf

⁽²⁾ Based on 95% confidence of stack test of 5/19/09.

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

Iowa DNR Construction Permits 10-A-466-S1, 10-A-467-S1

Pollutant: Total Metal Hazardous Air Pollutants (HAPs)

Emission Limit(s): 0.0008 gr/dscf ⁽²⁾

⁽²⁾ IAC reference to Subpart EEEEE (National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries; 40 CFR §63.7680 – 40 CFR §63.7765) of the National Emission Standards for Hazardous Air Pollutants (NESHAP).

Authority for Requirement: 567 IAC 23.1(4) "de" ⁽²⁾

Iowa DNR Construction Permits 10-A-466-S1, 10-A-467-S1

Operational Limits & Requirements

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

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

This emission unit is not subject to any of the New Source Performance Standards (NSPS).

The facility (plant number 82-02-004) is subject to Subparts A (*General Provisions*; 40 CFR §63.1 – 40 CFR §63.15) and EEEEE (*National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries*; 40 CFR §63.7680 – 40 CFR §63.7765) of the National Emission Standards for Hazardous Air Pollutants (NESHAP).

Failure to include any NSPS or NESHAP requirements as a part of this permit does not relieve the permittee from the requirement to comply with all applicable NSPS or NESHAP requirements.

Operating Limits

Operating limits for this emission unit shall be:

- A. Metal pouring shall only occur between the hours of 9:00 PM and 1:00 PM.
- B. As specified in 40 CFR §63.7710(b), the owner or operator shall prepare and operate at all times according to a written operation and maintenance plan for each capture and collection system and control device and emissions source subject to an emission limit in 40 CFR §63.7690(a) which includes, but is not limited to the following:
 - (1) Per 40 CFR §63.7710(b)(6), procedures for providing an ignition source to mold vents of sand mold systems in each pouring area and pouring station unless the facility determines the mold vent gases either are not ignitable, ignite automatically, or cannot be ignited due to accessibility or safety issues.

Authority for Requirement: Iowa DNR Construction Permits 10-A-466-S1, 10-A-467-S1

Reporting & Recordkeeping

Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Department. Per 40 CFR §63.7753, the facility must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. Records shall be legible and maintained in an orderly manner. These records shall show the following:

Per 40 CFR §63.7753, the owner or operator shall keep each record onsite for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report and record. Per 40 CFR §63.7745(b), the owner or operator shall keep all operation and maintenance plans required by NESHAP Subpart EEEEE for the life of the iron foundry or until the iron foundry is no longer subject to the requirements of NESHAP Subpart EEEEE

- A. Per 40 CFR §63.7752(a), the owner or operator shall keep the records specified in 40 CFR §63.7752(a)(1) through 40 CFR §63.7752(a)(4).
- B. Per 40 CFR §63.7752(c), the owner or operator shall keep records required by 40 CFR §63.7743, 40 CFR §63.7744, and 40 CFR §63.7745 to show continuous compliance with each emission limitation, work practice standard, and operation and maintenance requirement that applies.
- C. The facility shall record the hours of the day during which metal pouring occurs.

Authority for Requirement: Iowa DNR Construction Permits 10-A-466-S1, 10-A-467-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 33.5

Stack Opening, (inches, dia.): 48

Exhaust Flow Rate (scfm): 30,800

Exhaust Temperature (°F): 70

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permits 10-A-466-S1, 10-A-467-S1

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

Monitoring Requirements

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

Stack Testing:

Pollutant: Particulate Matter ⁽¹⁾

Stack Test to be Completed by – Once every five (5) years

Test Method - 40 CFR 60, Appendix A, Method 5

Authority for Requirement: Iowa DNR Construction Permits 10-A-466-S1, 10-A-467-S1

⁽¹⁾ Per 40 CFR §63.7731, the owner or operator shall conduct subsequent performance tests to demonstrate compliance with all applicable PM or total metal HAP emission limitations no less frequently than once every five (5) years.

Pollutant: Opacity ⁽²⁾

Stack Test to be Completed by – Once every six (6) months

Test Method - 40 CFR 60, Appendix A, Method 9

Authority for Requirement: Iowa DNR Construction Permits 10-A-466-S1, 10-A-467-S1

⁽²⁾ Per 40 CFR §63.7731(b), subsequent performance tests shall be conducted no less frequently than once every six (6) months. Opacity limit is for the building or structure housing any iron and steel foundry emissions source (i.e., not point specific).

Pollutant: Total Metal Hazardous Air Pollutants (HAPs) ⁽¹⁾

Stack Test to be Completed by – Once every five (5) years

Test Method - 40 CFR 60, Appendix A, Method 18

Authority for Requirement: Iowa DNR Construction Permits 10-A-466-S1, 10-A-467-S1

⁽¹⁾ Per 40 CFR §63.7731, the owner or operator shall conduct subsequent performance tests to demonstrate compliance with all applicable PM or total metal HAP emission limitations no less frequently than once every five (5) years.

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: Boilers

Associated Equipment

Associated Emissions Unit ID Numbers: NA

EP	EU	EU Description	Raw Material	Rated Capacity
Boilers	NA	220 Line Boiler	Natural Gas	3 MMBtu/hr
		221 Line Boiler		2.1 MMBtu/hr
		Main Office #1 Boiler		0.175 MMBtu/hr
		Main Office #2 Boiler		0.175 MMBtu/hr
		256 Line Boiler		3 MMBtu/hr
		Locker Room #1 Boiler		0.5115 MMBtu/hr
		Locker Room #2 Boiler		0.5115 MMBtu/hr
		Locker Room #3 Boiler		0.5115 MMBtu/hr

Applicable Requirements

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

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

The following emission limits apply to each boiler:

Pollutant: Opacity

Emission Limit(s): 40%

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

Pollutant: Particulate Matter

Emission Limits: 0.6 lb/MMBtu

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

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv

Authority for Requirement: 567 IAC 23.3(3)"e"

Operational Limits & Requirements

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

NESHAP Applicability

Facility Boilers: This equipment is subject to the National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR Part 63 Subpart DDDDD].

Authority for Requirement: 40 CFR 63 Subpart DDDDD
567 IAC 23.1(4)"dd"

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. CPMS and CAM Plans

Continuous Parametric Monitoring System (CPMS) Plan

The emission points shall conform to the conditions listed below

Background

In August, 2013, a Continuous Parametric Monitoring System (CPMS) was installed on Baghouse CE-2, which is a modular unit connected to Emission Points EP 2-1, EP 2-2, EP 2-3, EP 2-4, EP 2-5, EP 2-6, EP 2-7 and EP 2-8. These emission points are connected to Emission Units EU-02, EU-03 and EU-04 (Electric Arc furnaces 1, 2, and 3, respectively). The function of the CPMS is to monitor particulate matter (PM) and detect bag leaks. The CPMS records at 15-minute intervals and produces a 3-hour average of PM concentrations emitted.

The purpose of this plan is to utilize the CPMS in lieu of the 5-year performance testing as per CFR 53.7731

Applicable Requirements

Emission Point	Emission Unit	EU Description (Equipment Controlled)	Applicable Requirements	Authority for Requirement
2-1 2-2 2-3 2-4 2-5 2-6 2-7 2-8	02	Electric Arc Furnaces 1, 2 & 3	Opacity Emission Limit: 40%	567 IAC 23.3(2)"d" Iowa DNR Construction Permits 06-A-1051-S2, 06-A-1052-S2, 06-A-1053-S2, 06-A-1054-S2, 06-A-1055-S2, 06-A-1056-S2, 06-A-1057-S2, 06-A-1058-S2
			Pollutant: PM-10 Emission Limit: 0.24 lb/hr	Iowa DNR Construction Permits 06-A-1051-S2, 06-A-1052-S2, 06-A-1053-S2, 06-A-1054-S2, 06-A-1055-S2, 06-A-1056-S2, 06-A-1057-S2, 06-A-1058-S2

Emission Point	Emission Unit	EU Description (Equipment Controlled)	Applicable Requirements	Authority for Requirement
			Pollutant: PM Emission Limit: 0.24 lb/hr, 0.8 lb/ton	40 CFR 63.10895(c)(1) Iowa DNR Construction Permits 06-A-1051-S2, 06-A-1052-S2, 06-A- 1053-S2, 06-A- 1054-S2, 06-A- 1055-S2, 06-A- 1056-S2, 06-A-1057-S2, 06-A- 1058-S2
			Pollutant: Total Metal Hazardous Air Pollutants (HAPs) Emission Limit: 0.06 lb/ton	40 CFR 63.10895(c)(1) Iowa DNR Construction Permits 06-A-1051-S2, 06-A-1052-S2, 06-A- 1053-S2, 06-A- 1054-S2, 06-A- 1055-S2, 06-A- 1056-S2, 06-A-1057-S2, 06-A- 1058-S2

Monitoring Requirements

Each baghouse shall conform to the conditions listed below

The CPMS will complete a minimum of one cycle of operation for each successive 15-minute period that the baghouse is in operation. A minimum of three of the required four data points will constitute a valid hour of data. The CPMS will have valid hourly data for 100% of every averaging period. The CPMS will determine and record the hourly average of all recorded readings and the 3-hour average of all recorded readings.

Reporting and Recordkeeping

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

Semiannual compliance reports will be submitted. Any deviations from emissions limits will be reported in the semiannual report. Any action that is taken during start-up or shutdown that caused the source to exceed emissions limitations will be verbally reported to the DNR within two working days and by letter within seven working days after the end of the event.

Records will be maintained for the following:

- The time the bag leak detection system sounded

- The cause of the alarm
- The corrective action required
- The time that corrective action was initiated
- The date the corrective action was completed

Preventative maintenance records of capture and control devices shall be kept. Records shall include the following:

- Daily monitoring of the pressure drop across each baghouse cell to ensure pressure drop is within the normal operating range
- Removal of dust from hoppers through weekly visual inspection
- Monitoring cleaning cycles
- Checking bag cleaning mechanisms for proper functioning through visual inspection or equivalent means
- Checking the physical integrity of the baghouse, material build-up, and corrosion

Compliance Assurance Monitoring (CAM) Plan

The emission points shall conform to the conditions listed below

Applicable Requirements

Emission Point	Emission Unit	EU Description (Equipment Controlled)	Applicable Requirements	Authority for Requirement	Control Equipment
2-1 2-2 2-3 2-4 2-5 2-6 2-7 2-8	02	Electric Arc Furnaces 1, 2 & 3	Opacity Emission Limit: 40%	567 IAC 23.3(2)"d", 567 IAC 23.1(4)"de" Iowa DNR Construction Permits 06-A-1051-S2, 06-A-1052-S2, 06-A-1053-S2, 06-A-1054-S2, 06-A-1055-S2, 06-A-1056-S2, 06-A-1057-S2, 06-A-1058-S2	Modular Baghouse CE-02
			Pollutant: PM-10 Emission Limit: 0.24 lb/hr	Iowa DNR Construction Permits 06-A-1051-S2, 06-A-1052-S2, 06-A-1053-S2, 06-A-1054-S2, 06-A-1055-S2, 06-A-1056-S2, 06-A-1057-S2, 06-A-1058-S2	

Emission Point	Emission Unit	EU Description (Equipment Controlled)	Applicable Requirements	Authority for Requirement	Control Equipment
			Pollutant: PM Emission Limit: 0.005 gr/dscf	567 IAC 23.1(4)"de", Iowa DNR Construction Permits 06-A-1051-S2, 06-A-1052-S2, 06- A-1053-S2, 06-A- 1054-S2, 06-A- 1055-S2, 06-A- 1056-S2, 06-A-1057-S2, 06- A-1058-S2	
			Pollutant: Total Metal Hazardous Air Pollutants (HAPs) Emission Limit: 0.0004 gr/dscf	567 IAC 23.1(4)"de", Iowa DNR Construction Permits 06-A-1051-S2, 06-A-1052-S2, 06- A-1053-S2, 06-A- 1054-S2, 06-A- 1055-S2, 06-A- 1056-S2, 06-A-1057-S2, 06- A-1058-S2	
03	34 37 103 127 133 134 135 144 145	No Bake Conveyor No Bake Screen Sand Reclaimer 256 Mixer Sand Cooling Sand Elevator Sand Separator 256 Sand Heater 1 256 Sand Heater 2	Opacity Emission Limit: 40%	567 IAC 23.3(2)"d" Iowa DNR Construction Permit 74-A-154-S6	Baghouse CE-03
			Pollutant: PM-10 Emission Limit: 1.82 lb/hr	Iowa DNR Construction Permit 74-A-154-S6	
			Pollutant: PM Emission Limit: 1.82 lb/hr, 0.05gr/dscf	567 IAC 23.4(6) Iowa DNR Construction Permit 74-A-154-S6	
04	35 39	No Bake Conveyor No Bake Shake Out	Opacity Emission Limit: 40%	567 IAC 23.3(2)"d" Iowa DNR Construction Permit 76-A-222-S4	Baghouse CE-04
			Pollutant: PM-10 Emission Limit: 1.17 lb/hr	Iowa DNR Construction Permit 76-A-222-S4	

Emission Point	Emission Unit	EU Description (Equipment Controlled)	Applicable Requirements	Authority for Requirement	Control Equipment
			Pollutant: PM Emission Limit: 1.17 lb/hr, 0.1gr/dscf	567 IAC 23.3(2)"a" Iowa DNR Construction Permit 76-A-222-S4	
86	126 148 150 151 152 154 155 156 157 158	G. Sand Reclaim Vibramill Sand Bin A Sand Bin B Sand Bin C Sand Bin 4 Sand Bin 5 Sand Bin 6 Sand Bin 7 Sand Bin 8	Opacity Emission Limit: 40%	567 IAC 23.1(4)"de" Iowa DNR Construction Permit 10-A-465-S2	Baghouse CE-86
			Pollutant: PM-10 Emission Limit: 2.70 lb/hr	Iowa DNR Construction Permit 10-A-465-S2	
			Pollutant: Particulate Matter Emission Limit(s): 2.70 lbs/hr, 0.05gr/dscf	567 IAC 23.4(7) Iowa DNR Construction Permit 10-A-465-S2	
87	51C 118 125 128 129 130 131 138 139 140 141 142 143 51A	Cut-off Saw Loop Mixer Large Floor Mixer Silo D Mechanical Reclaim Silo E Thermal Reclaim Silo H Mechanical Reclaim Silo G Thermal Reclaim Large Floor Mixer Loop Sand Heater Large Floor Bin 1 Large Floor Bin 2 Loop Sand Heater 2 Large Floor Sand Heater Shotblast Unit	Opacity Emission Limit: 40%	567 IAC 23.3(2)"d" Iowa DNR Construction Permit 11-A-566	Baghouse CE-87
			Pollutant: PM-10 Emission Limit: 2.11 lbs/hr	Iowa DNR Construction Permit 11-A-566	
			Pollutant: Particulate Matter Emission Limit(s): 2.11 lbs/hr, 0.05 gr/dscf	567 IAC 23.4(6) Iowa DNR Construction Permit 11-A-566	

Monitoring Approach

Each baghouse shall conform to the conditions listed below

Applicable Requirements	PM Limits	Opacity
<p>General Monitoring Approach</p> <p>Monitoring Methods and Locations</p>	<p>Pressure drop readings</p> <p>The facility shall initiate a CAM plan for CE-2 if the CPMS is not in operation.</p> <p>Where applicable, the facility will monitor the pressure drop across each baghouse on a daily basis. If the baghouse is operating outside of the normal operating pressure (1 to 9 inches of water for CE-2 and 2 to 8 inches for CE-03, CE-4, CE-86 and CE-87), the baghouse will be pulsed.</p> <p>If this does not return the pressure drop to the normal range within eight hours, the equipment will be inspected to determine the cause of the abnormal pressure readings. Corrective action will be initiated within eight hours to bring the baghouse back within normal operating parameters.</p> <p>The cleaning sequence, air delivery system, and hopper functions of each baghouse are inspected monthly to insure equipment is operating properly.</p> <p>The baghouse will be pulsed monthly to ensure that the pulsing function is working properly.</p> <p>The hopper will be inspected to ensure proper performance</p> <p>Bags are inspected for leaks or wear on a quarterly basis.</p> <p>All baghouse components are inspected every 6 months to insure proper operation.</p>	<p>Visible emissions observations</p> <p>Visible emissions will be observed daily to ensure no visible emissions during the operation of the arc furnaces. If visible emissions are observed, this would be an exceedance, not a violation and corrective action will be initiated as soon as possible, but no later than eight hours.</p> <p>If weather conditions prevent the observer from conducting an opacity observation, this should be noted and a reading should be attempted the following day and each subsequent day until a reading is taken or there have been three consecutive unsuccessful attempts to take a reading.</p> <p>The cleaning sequence, air delivery system, and hopper functions of the baghouse are inspected monthly to insure equipment is operating properly.</p> <p>The baghouse will be pulsed monthly to ensure that the pulsing function is working properly.</p> <p>The hopper will be inspected to ensure proper performance</p> <p>Bags are inspected for leaks or wear on a quarterly basis.</p> <p>All baghouse components are inspected every 6 months to insure proper operation.</p>
Indicator Range/Source	<p>Pressure drop: 1 to 9 inches of water for CE-02 and 2 to 8 inches of water for CE-03, CE-04, CE-86 and CE-87.</p> <p>Leaks, abnormal conditions, wear, and/or plugging of equipment and/or bags.</p>	<p>Presence of visible emissions.</p> <p>Leaks, abnormal conditions, wear, and/or plugging of equipment and/or bags.</p>
Data Collection Frequency	Daily: Pressure drop observations.	Daily: Visible emissions observations.

	Monthly, Quarterly and semiannually: Inspect all components not subject to wear or plugging such as the equipment housing, duct work and collection hoods. If any defective equipment is noted, the equipment should be repaired or replaced promptly with action initiated within 8 hours of discovery.	Monthly, Quarterly and semiannually: Inspect all components not subject to wear or plugging such as the equipment housing, duct work and collection hoods. If any defective equipment is noted, the equipment should be repaired or replaced promptly with action initiated within 8 hours of discovery.
Recordkeeping	Records of daily pressure drop observations, monthly, quarterly & semi-annual equipment inspections, maintenance records and any actions resulting from observations or inspections are maintained on-site.	Records of daily visible emission observations, monthly, quarterly & semi-annual equipment inspections, maintenance records and any actions resulting from observations or inspections are maintained on-site.
QA/QC	N/A—None	Visible emissions observer trainer per Method 22.

Justification and Rationale

A frequent inspection of each baghouse and its components will insure that it continues to operate properly and achieve the desired particulate emission control efficiency. The absence of visible emissions is a good indicator of low emissions and proper air pollution control (APC) device operation.

Additional Comments

Although Method 22 applies to fugitive sources, the visible/no visible emissions observation techniques of Method 22 can be applied to ducted emissions. For situations where no visible emissions are the norm, a technique focused toward identifying a change in performance as indicated by visible emissions is a useful and effective technique. The use of the visible/no visible emissions technique reduces the need for an on-site Method 9 observer.

Authority for Requirement: 567 IAC 22.108(3)

V. 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, 7900 Hickman Rd, Suite #1, Windsor Heights, Iowa 50324, two copies (three if your facility is located in Linn or Polk county) of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. An additional copy must also be sent to U.S. EPA Region VII, Attention: Chief of Air Permits, 11201 Renner Blvd., Lenexa, KS 661219. 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 following forms shall be submitted annually by March 31 documenting actual emissions for the previous calendar year.
 - a. Form 1.0 "Facility Identification";
 - b. Form 4.0 "Emissions unit-actual operations and emissions" for each emission unit;
 - c. Form 5.0 "Title V annual emissions summary/fee"; and
 - d. Part 3 "Application certification."
4. The fee shall be submitted annually by July 1. The fee shall be submitted with the following forms:
 - a. Form 1.0 "Facility Identification";
 - b. Form 5.0 "Title V annual emissions summary/fee";
 - c. Part 3 "Application certification."
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.

6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d".

G7. Inspection of Premises, Records, Equipment, Methods and Discharges

Upon presentation of proper credentials and any other documents as may be required by law, the permittee shall allow the director or the director's authorized representative to:

1. Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
4. Sample or monitor, at reasonable times, substances or parameters for the purpose of ensuring compliance with the permit or other applicable requirements. *567 IAC 22.108 (15)"b"*

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) 281-8694 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. 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. Oral 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 oral 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 oral report may be made 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 oral 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 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 must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. *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.
 - e. The changes comply with all applicable requirements.
 - f. For such a 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 is required to do 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 Permit Modification.

- a. Minor permit modification procedures may be used only for those permit modifications that do any of the following:
 - i. Do not violate any applicable requirements
 - 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 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.
- 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 a 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, existing permit term terms and conditions it seeks to modify may subject the facility to enforcement action.

3. Significant 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, and those requirements that apply to Title V issuance and renewal. *567 IAC 22.111-567 IAC 22.113* 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 22.105(1)"a"(4)*

G19. Duty to Obtain Construction Permits

Unless exempted under 567 IAC 22.1(2), the permittee must not construct, install, reconstruct, or alter any equipment, control equipment or anaerobic lagoon without first obtaining a construction permit, conditional permit, or permit pursuant to 567 IAC 22.8, or permits required pursuant to 567 IAC 22.4 and 567 IAC 22.5. Such permits shall be obtained prior to the initiation of construction, installation or alteration of any portion of the stationary source. *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, training fires and controlled burning of a demolished building. *567 IAC 23.1(3)"a", and 567 IAC 23.2*

G21. Open Burning

The permittee is prohibited from conducting open burning, except as may be allowed by 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 substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

G24. Permit Reopenings

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*
2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.
 - a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;
 - b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.
 - c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a"*, *567 IAC 22.108(17)"b"*
3. A permit shall be reopened and revised under any of the following circumstances:
 - a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;
 - b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;
 - c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.
 - d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.
 - e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*
4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*

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 to determine transferability of the permit. *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. For the department to consider test results a valid demonstration of compliance with applicable rules or a permit condition, such notice shall be given. 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. At the department's request, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. A testing protocol shall be submitted to the department no later than 15 days before the owner or operator conducts the compliance demonstration. A representative of the department shall be permitted to witness the tests. Results

of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.

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

Stack Test Review Coordinator
Iowa DNR, Air Quality Bureau
7900 Hickman Road, Suite #1
Windsor Heights, IA 50324
(515) 725-9545

Within 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:

Chief of Air Permits
U.S. EPA Region 7
Air Permits and Compliance Branch
11201 Renner Blvd.
Lenexa, KS 66219
(913) 551-7020

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

Chief, Air Quality Bureau
Iowa Department of Natural Resources
7900 Hickman Road, Suite #1
Windsor Heights, IA 50324
(515) 725-9500

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

Field Office 1
909 West Main – Suite 4

Field Office 2
2300-15th St., SW

Manchester, IA 52057
(563) 927-2640

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

Field Office 5
401 SW 7th Street, Suite I
Des Moines, IA 50309
(515) 725-0268

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

Mason City, IA 50401
(641) 424-4073

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

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

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