

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

Name of Permitted Facility: John Deere-Davenport Works

**Facility Location: 1175 E 90th Street
Davenport, IA 52804**

Air Quality Operating Permit Number: 01-TV-008R4

Expiration Date:

Permit Renewal Application Deadline:

EIQ Number: 92-1314

Facility File Number: 82-01-043

Responsible Official

Name: Mr. Thomas Johnson

Title: General Manager

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Permit Contact Person for the Facility

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This permit is issued in accordance with 567 Iowa Administrative Code Chapter 24, and is issued subject to the terms and conditions contained in this permit.

For the Director of the Department of Natural Resources

Marnie Stein, Supervisor of Air Operating Permits Section

Date

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40 CFR Part 60, Subpart Dc: Web Link to Standards of Performance for Small Industrial-Commercial Institutional Steam Generating Units.

40 CFR Part 63, Subpart XXXXXX: Web Link to National Emissions Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories

40 CFR Part 63, Subpart ZZZZ: Web Link to National Emissions Standards for Hazardous Air Pollutants: Stationary Reciprocating Internal Combustion Engines

40 CFR Part 63, Subpart CCCCCC: Web Link to National Emissions Standards for Hazardous Air Pollutants: Gasoline Dispensing Facilities

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Abbreviations

acfm.....actual cubic feet per minute
CFR.....Code of Federal Regulation
CEcontrol equipment
CEM.....continuous emission monitor
°F.....degrees Fahrenheit
EIQ.....emissions inventory questionnaire
EPemission point
EUemission unit
gr./dscfgrains per dry standard cubic foot
IAC.....Iowa Administrative Code
DNRIowa Department of Natural Resources
MVAC.....motor vehicle air conditioner
NAICS.....North American Industry Classification System
NSPSnew source performance standard
ppmvparts per million by volume
lb./hrpounds per hour
lb./MMBtupounds per million British thermal units
SCC.....Source Classification Codes
scfm.....standard cubic feet per minute
SIC.....Standard Industrial Classification
TPYtons per year
USEPA.....United States Environmental Protection Agency

Pollutants

PM.....particulate matter
PM₁₀particulate matter ten microns or less in diameter
SO₂sulfur dioxide
NO_xnitrogen oxides
VOC.....volatile organic compound
COcarbon monoxide
HAP.....hazardous air pollutant

I. Facility Description and Equipment List

Facility Name: John Deere Davenport Works

Permit Number: 01-TV-008R4

Facility Description: Manufacturing construction machinery (SIC 3531)

Equipment List

A. Prime and Top Coat Paint Booths

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
AE17	EU57	Prime Paint Booth	05-A-161-S7
AE18	EU112		05-A-162-S7
AE19	EU58	Top Coat Paint Booth	05-A-163-S8
AE20	EU113		05-A-164-S8

B. Manual and Robotic Paint Booths

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
AE22	EU73	Manual Paint Booth	12-A-027-S4
AE23	EU114		12-A-028-S4
AE24	EU115		12-A-029-S4
AE25	EU74 EU116 EU117	Robotic Paint Booth	12-A-030-S4
AE26			12-A-031-S4
AE27			12-A-032-S4
AE28			12-A-033-S4

C. Touch Up Paint Booths

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
AE29	EU82 EU118	Touch Up Paint Booth	12-A-075-S3

D. Natural Gas Boilers

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
GE1	EU20	Natural Gas Boiler	N/A
GE2	EU21	Natural Gas Boiler	N/A

E. Unvented Welding

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
FUGWELD	EU30	Welding Operations	13-A-065-S1
OE15	EU35	Reclaim Welding	98-A-452-S1

F. Cutting Operations

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
FUGTC	EU40	Thermal Cutting	N/A

G. Storage Tanks

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
EPT01	EUT01	Diesel Fuel #1 Storage Tank (10,000 gal.)	01-A-300-S3
EPT02	EUT02	Antifreeze Tank (10,000 gal.)	01-A-301
EPT03	EUT03	Hydraulic Oil Tank (15,000 gal.)	01-A-303
EPT04	EUT04	Engine Oil Tank (15,000 gal.)	01-A-304
EPT05	EUT05	Lead Free Gasoline Tank (1,000 gal.)	NA
EPT09	EUT09	Used Coolant Tank (6,000 gal.)	01-A-302

H. Back Up Diesel Engines

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
EP200	EU200	Back Up Diesel Fire Pump	NA
EP201	EU201	Back Up Diesel Fire Pump	NA

I. Emergency Generators

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
EP49	EU49	Emergency Generator (Natural Gas)	N/A
EP50	EU50	Emergency Generator (Natural Gas)	N/A

J. Miscellaneous Sources

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
FUGVOC	EU23	Miscellaneous Fugitive VOC Sources	05-A-549-S1
PM02	EU53	Paint Mixing Room	00-A-802
CE4	EU59	Paint Curing Oven	05-A-165
CE5			05-A-166-S1
AE21	EU60	Catalyst Paint Mixing Room	05-A-167
GE7	EU61	Hot Water Boiler	05-A-183
SB01	SB01	Shot Blast #M17711	18-A-417
SB04	SB04	Shot Blast #M16685	18-A-420
SB07	SB07	Oxide Removal Machine	19-A-090
SB08	SB06	Enclosed Tumble Blast	19-A-135
	SB08	Enclosed Shotblast – BCT Plate Blast	
	SB09	Enclosed Drum Blast	
SB10	SB10	BCT Roller Blast	21-A-195
SB11	SB11	BCT Roller Blast #M207621	N/A

K. Plasma and Laser Cutters

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
PC1	EU89 & EU95	Two HyDefinition Plasma Cutters	13-A-432-S1
PC2	EU90 and EU91	Two HyDefinition Plasma Cutters	13-A-433-S1
PC3	EU92 and EU93	HyDefinition Plasma Cutter, EU92 and HyDefinition Plasma and Laser Cutter, EU93	13-A-434-S1
PC6	EU119	Combination Oxyfuel/Plasma Cutting Machine	21-A-010-S1
EP-TC3	EU-120	Oxy-Fuel Cutting Machine	22-A-189-S1
EP-TC2	EU-110	Oxy-Fuel Cutting Machine	22-A-082

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
EU22	Miscellaneous Natural Gas Heaters (< 10 MMBtu/hr)
EU39A	Laser Cutting Fugitive Emissions
EU39B	Laser Cutting Fugitive Emissions
EU68	Solvent Stills
EU72	Paint Mixing Room Exhaust
EU77	Manual Paint Booth Cure Oven
EU78	Robotic Booth Cure Oven
EU79	Robotic Booth Cure Oven
EU80	Robotic Booth Dry-Off Oven
EU81	Robotic Booth Dry-Off Oven
EU99	400T Office Chiller Cooling Tower
EU100	4500T Office Chiller Cooling Tower
EU101	600T Office Chiller Cooling Tower
EU108	Circle Induction Heater
EU109	HyDef Plasma 8
EUT06	#2 Diesel Fuel Oil Tank (1,000 gal)
EUT07	Process Water Tank (20,000 gal)
EUT08	Process Water Tank (20,000 gal)
EUT010	Used Oil Tank (6,000 gal)
PM04	Paint Storage Locker
W01	Wood Shop Dust Collector
WB01	ADT (Reclaim) Wash Bay
WB02	Small Loader Wash Bay
WB03	Large Loader Wash Bay
WB04	Skidder Wash Bay
WB05	Grader Wash Bay
WB06	Maintenance Wash Bay
3DPRINT	3D Printers
WWT	Waste Water Treatment Operations
EU111	Laser – Bystronic 10K Fiber

II. Plant-Wide Conditions

Facility Name: John Deere Davenport Works
Permit Number: 01-TV-008R4

Permit conditions are established in accord with 567 Iowa Administrative Code rule 24.108. When 567 IAC as amended May 15, 2024, and cited in this permit becomes State Implementation Plan (SIP) approved, it will supersede 567 IAC as amended February 8, 2023. Prior to May 15, 2024, all Title V rule citations in this Title V permit were found and cited in 567 IAC Chapter 22. During the period from May 15, 2024, to the date that 567 IAC as amended May 15, 2024, is approved into the SIP, both 567 IAC as amended May 15, 2024 and 567 IAC as amended February 8, 2023 form the legal basis for the applicable requirements included in this permit. A crosswalk showing the citation changes is attached to this permit in Appendix C.

Permit Duration

The term of this permit is: Five (5) Years
Commencing on:
Ending on:

Amendments, modifications and reopenings of the permit shall be obtained in accordance with 567 Iowa Administrative Code rules 24.110 - 24.114. Permits may be suspended, terminated, or revoked as specified in 567 Iowa Administrative Code Rules 24.115.

Emission Limits

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

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

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

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

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

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

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

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

Facility-Wide Emission Limits

The atmospheric emissions from the facility shall not exceed the following:

Pollutant: Hazardous Air Pollutants (HAPS)

Emission Rate (tons/yr): Single HAP 7.5 ⁽¹⁾, Total HAP 17.0 ⁽¹⁾

Authority for Requirement: See Emission Point-Specific Conditions for construction permit citations.

⁽¹⁾ Covers all HAP emitting units at the facility **except** combustion, storage tanks, welding, shot blasting, and metal cutting units.

Facility-Wide Operational Limits

Unless specified otherwise in the Emission Point-Specific Conditions, the following limitations and supporting regulations apply to all emission points at this facility:

Reporting & Recordkeeping

All records, as required in Emission Point-Specific Conditions, shall be satisfactory for demonstrating compliance with all applicable emission limits. Records shall be kept on-site for five years and shall be available for inspection by the Department. Records shall be maintained in a legible and orderly manner.

Authority for Requirement: See Emission Point-Specific Conditions for construction permit citations.

40 CFR 60 Subpart Dc

EU61, the Hot Water Boiler is subject to NSPS Subpart Dc – Standards of Performance for Small Industrial-Commercial Institutional Steam Generating Units.

Authority for Requirement: 40 CFR 60 Subpart Dc
567 IAC 23.1(2)"lll"

40 CFR 63 Subpart XXXXXX

Welding (EU30 and EU35) and shot blasting (SB01-SB11) are subject to 40 CFR 63 Subpart XXXXXX National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories.

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

40 CFR 63 Subpart ZZZZ

The Back Up Diesel Fire Pumps (EU200 and EU201) and Emergency Generators (EU49 and EU50) are subject to 40 CFR 63 Subpart ZZZZ National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Stationary Reciprocating Internal Combustion Engines (RICE).

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

40 CFR Part 63, Subpart CCCCCC

Dispensing from the gasoline tank, EPT05 is subject to 40 CFR Part 63, Subpart CCCCCC, National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities.

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

III. Emission Point-Specific Conditions

Facility Name: John Deere Davenport Works
 Permit Number: **01-TV-008R4**

Emission Point ID Number: AE17, AE18, AE19, AE20, AE22, AE23, AE24, AE25, AE26, AE27, AE28, and AE29

Table: Paint Booths

EP ID	EU ID	Emission Unit Description	Maximum Rated Capacity	CE Description and ID	Permit Number
AE17	EU-57 and EU-112	Primer Paint Booth and Booth Heater	4 Electrostatic spray guns, each at 9.48 gallons/hour; 7.595 MMBtu/hour, natural gas	2-Stage Dry Filtration System (CE-C257)	05-A-161-S7
AE18					05-A-162-S7
AE19	EU-58 and EU-113	Top Coat Paint Booth and Booth Heater	2 Electrostatic spray guns, each at 9.48 gallons/hour; 7.595 MMBtu/hour, natural gas	2-Stage Dry Filtration System (CE-C258)	05-A-163-S8
AE20					05-A-164-S8
AE22	EU-73, EU-114, and EU-115	Manual Paint Booth, Booth Heater#1, and Booth Heater #2	2 HVLP spray guns, each at 9.48 gallons/hour; 5.864 MMBtu/hour, per heater (natural gas)	2-Stage Dry Filtration System (CE-C73)	12-A-027-S4
AE23					12-A-028-S4
AE24					12-A-029-S4
AE25	EU-74, EU-116, and EU-117	Robotic Paint Booth, Booth Heater#1, and Booth Heater #2	6 Turbo Bell guns, each at 15.85 gallons/hour; 7.251 MMBtu/hour, per heater (natural gas)	2-Stage Dry Filtration System (CE-C74)	12-A-030-S4
AE26					12-A-031-S4
AE27					12-A-032-S4
AE28					12-A-033-S4
AE29	EU-82 and EU-118	Touch-Up Paint Booth and Booth Heater	2 HVLP spray guns, each at 9.48 gallons/hour; 5.1 MMBtu/hour, natural gas	Dry Filters (CE-C106)	12-A-075-S3

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permits specified in Table: Paint Booths
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: DNR Construction Permits specified in Table: Paint Booths
567 IAC 23.4(13)

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppm_v

Authority for Requirement: DNR Construction Permits specified in Table: Paint Booths
567 IAC 23.3(3)"e"

Combined Emission Limits

EP ID	Pollutant	lb/hr	tons/yr	Authority for Requirement
AE17 and AE18	PM ₁₀	1.86	NA	DNR Construction Permits specified in Table: Paint Booths
AE19 and AE20	PM ₁₀	0.87	NA	
AE22, AE23, and AE24	PM ₁₀	1.73	NA	
AE25, AE26, AE27, and AE28	PM ₁₀	2.54	NA	
AE29	Particulate Matter (PM) – State	3.0	NA	
	PM ₁₀	3.0	NA	
AE17, AE18, AE19, AE20, AE22, AE23, AE24, AE25, AE26, AE27, AE28, and AE 29	Volatile Organic Compounds (VOC)	NA	178.0	
	Single HAP	NA	7.5	
	Total HAP	NA	17.0	

Operational Requirements with Associated Monitoring and Recordkeeping

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

GENERAL REQUIREMENTS

- A. The owner or operator shall not use any materials containing metal fabrication and finishing HAP (MFHAP) in the paint booths (EUs 57, 58, 73, 74, and 82). Per 40 CFR §63.11522, material containing MFHAP means any material containing one or more MFHAP. Any material that contains cadmium, chromium, lead, or nickel in amounts greater than or equal to 0.1 percent by weight (as the metal), and contains manganese in amounts greater than or equal to 1.0 percent by weight (as the metal), as shown in formulation data provided by the manufacturer or supplier, such as the Material Safety Data Sheet for the material, is considered to be a material containing MFHAP. The owner or operator shall retain the Safety Data Sheet (SDS) of each material used in the paint booths (EUs 57, 58, 73, 74, and 82).
- B. The owner or operator shall maintain and adhere to a facility-maintained Operation and Maintenance Plan that includes regular inspections and maintenance of the dry filters (CEs C257, C258, C73, C74, and C106). The owner or operator shall keep a record of completion of all activities required by the facility-maintained Operation and Maintenance Plan.
- C. Paint Booth Heaters 112, 113, 114, 115, 116, 117, or 118 shall combust natural gas only.
- D. The VOC emission limit in Permit Condition 1a apply to Paint Booths 57, 58, 73, 74, and 82.
 - i. The owner or operator shall maintain on-site manufacturer and vendor provided information (Safety Data Sheets, technical data sheets, etc.) that clearly indicate the VOC content of each surface coating material (paint, primer, solvent, etc.) used in the operation of Paint Booths 57, 58, 73, 74, and 82.
 - ii. The VOC emission limit in Permit Condition 1a shall not include combustion emissions from Paint Booth Heaters 112, 113, 114, 115, 116, 117, or 118.
 - iii. The owner shall maintain the following daily records:
 - 1. The identification and VOC content of each material used in the operation of Paint Booths 57, 58, 73, 74, and 82.
 - 2. Total amount, in gallons, of each VOC-containing material used in the operation of Paint Booths 57, 58, 73, 74, and 82.
- E. The Single HAP and Total HAP emission limits in Permit Condition 1a apply to all units and activities at the facility which emit HAPs, excluding all combustion, storage tanks, welding, shot blasting, and metal cutting units.

- i. The owner or operator shall maintain on-site manufacturer and vendor provided information (Safety Data Sheets, technical data sheets, etc.) that clearly indicate the HAP content (individual and cumulative) for the material used in all units and activities at the facility that emit HAPs, excluding all combustion, storage tanks, welding, shot blasting, and metal cutting units.
 - ii. The owner or operator shall maintain the following daily records:
 - 1. The identification and HAP content of each material used in the operation of all units and activities at the facility which emit HAPs, excluding all combustion, storage tanks, welding, shot blasting, and metal cutting units.
 - 2. Total amount of each HAP-containing material used in the operation of all units and activities at the facility which emit HAPs, excluding all combustion, storage tanks, welding, shot blasting, and metal cutting units.
- F. For purposes of calculating VOC and HAP emissions, all VOC and HAP may be considered emitted on the day materials are delivered to the facility or production line.
- G. The owner or operator may take credit for VOC- and HAP- containing waste materials shipped off-site. The credit may be subtracted from the VOC and HAP rolling totals in the month the waste is shipped off-site.
- i. The following records shall be maintained for each waste material shipment that the owner uses to take VOC and HAP credit:
 - 1. The date and amount of waste material shipped off-site.
 - 2. The methodology used to determine the amount of waste materials.
 - 3. The amount of VOC and HAP in the waste materials.
 - 4. The methodology used to determine the amount of VOC and HAP in the waste materials.
 - 1. At a minimum, this methodology shall include the sources for all data used in the determination, methods used to generate the data, frequency of testing or monitoring, and supporting calculations and documentation.

VOC EMISSIONS CALCULATIONS REQUIREMENTS

- H. The owner or operator shall record the total amount, in tons, of VOC emitted on a monthly basis from the operation of Paint Booths 57, 58, 73, 74, and 82. Monthly VOC emissions shall be determined using the following equation:

- i. *Monthly VOC Emissions (tons/month)* = $\Sigma(\text{Total gallons of each VOC-containing material allocated that month to Paint Booths 57, 58, 73, 74, and 82}) * (\text{VOC content, in pounds per gallon, in the material}) * (1 \text{ ton}/2000 \text{ pounds})]$
- I. The owner or operator shall calculate and record the total amount, in tons, of VOC emitted from the operation of Paint Booths 57, 58, 73, 74, and 82 on a rolling 12-month basis.
 - J. The owner or operator shall implement the following procedure if the 12-month rolling total amount of VOC emitted from the operation of Paint Booths 57, 58, 73, 74, and 82 exceeds 142.4 tons.
 - i. The owner or operator shall calculate and record the total amount, in tons, of VOC emitted from the operation of Paint Booths 57, 58, 73, 74, and 82 on a rolling 365-day basis. Daily VOC emissions shall be determined using the following equation:
 - 1. *Daily VOC Emissions (tons/day)* = $\Sigma(\text{Total gallons of each VOC-containing material allocated that day to Paint Booths 57, 58, 73, 74, and 82}) * (\text{VOC content, in pounds per gallon, in the material}) * (1 \text{ ton}/2000 \text{ pounds})]$
 - ii. Calculation and recordkeeping of VOC emissions from data collected on Saturdays and Sundays shall be conducted on Mondays.
 - iii. Calculation and recordkeeping of VOC emissions shall not be required when emissions do not occur.
 - K. Daily VOC emissions calculations as specified here shall continue until the rolling 12-month total drops below 142.4 tons on the last day of the following month, at which time, rolling daily VOC emissions calculations shall cease.

SINGLE HAP EMISSIONS CALCULATIONS REQUIREMENTS

- L. The owner or operator shall record the total amount, in tons, of Single HAP emitted on a monthly basis from the operation of all units and activities at the facility which emit HAPs, excluding all combustion, storage tanks, welding, shot blasting, and metal cutting units.
- M. The owner or operator shall calculate and record the total amount, in tons, of Single HAP emitted from the operation of all units and activities at the facility which emit HAPs, excluding all combustion, storage tanks, welding, shot blasting, and metal cutting units on a rolling 12-month basis.
- N. The owner or operator shall implement the following procedure if the rolling 12-month total amount of *any* Single HAP emitted from the operation of all units and activities at the facility which emit HAPs, excluding all combustion, storage tanks, welding, shot blasting, and metal cutting units exceeds 6.0 tons.
 - i. The owner or operator shall record the total amount, in tons, of Single HAP emitted from the operation of all units and activities at the facility which emit HAPs, excluding all combustion, storage tanks, welding, shot blasting, and metal cutting units on a rolling 365-day basis.
 - ii. Calculation and recordkeeping of Single HAP emissions from data collected on Saturdays and Sundays shall be conducted on Mondays.
 - iii. Calculation and recordkeeping of Single HAP emissions shall not be required when emissions do not occur.
- O. Daily Single HAP emissions calculations as specified here shall continue until the rolling 12-month total drops below 6.0 tons on the last day of the following month, at which time, rolling daily Single HAP emissions calculations shall cease.

TOTAL HAP EMISSIONS CALCULATIONS REQUIREMENTS

- P. The owner or operator shall record the total amount, in tons, of Total HAP emitted on a monthly basis from the operation of all units and activities at the facility which emit HAPs, excluding all combustion, storage tanks, welding, shot blasting, and metal cutting units.
- Q. The owner or operator shall calculate and record the total amount, in tons, of Total HAP emitted from the operation of all units and activities at the facility which emit HAPs, excluding all combustion, storage tanks, welding, shot blasting, and metal cutting units on a rolling 12-month basis.
- R. The owner or operator shall implement the following procedure if the 12-month rolling total amount of Total HAP emitted from the operation of all units and activities at the facility which emit HAPs, excluding all combustion, storage tanks, welding, shot blasting, and metal cutting units exceeds 13.6 tons.

- i. The owner or operator shall calculate and record the total amount, in tons, of Total HAP emitted from the operation of all units and activities at the facility which emit HAPs, excluding all combustion, storage tanks, welding, shot blasting, and metal cutting units on a rolling 365-day basis.
 - ii. Calculation and recordkeeping of Total HAP emissions from data collected on Saturdays and Sundays shall be conducted on Mondays.
 - iii. Calculation and recordkeeping of Total HAP emissions shall not be required when emissions do not occur.
- S. Daily Total HAP emissions calculations as specified here shall continue until the rolling 12-month total drops below 13.6 tons on the last day of the following month, at which time, rolling daily Total HAP emissions calculations shall cease.

Authority for Requirement: DNR Construction Permits specified in Table: Paint Booths

Emission Point Characteristics

These emission points shall conform to the conditions specified in Table: Prime and Top Coat Paint Booth Stacks

EP ID	Stack Height, Feet	Discharge Style	Stack Opening, inches	Stack Temperature, °F	Exhaust Flowrate, SCFM
AE17	55	Vertical, unobstructed	48	70	37,000
AE18	55	Vertical, unobstructed	48	70	37,000
AE19	55	Vertical, unobstructed	48	70	37,000
AE20	55	Vertical, unobstructed	48	70	37,000
AE22	58.75	Vertical, unobstructed	48	72	32,700
AE23	58.75	Vertical, unobstructed	48	72	32,700
AE24	58.75	Vertical, unobstructed	48	72	32,700
AE25	58.75	Vertical, unobstructed	40	72	32,250
AE26	58.75	Vertical, unobstructed	40	72	32,250
AE27	58.75	Vertical, unobstructed	40	72	32,250
AE28	58.75	Vertical, unobstructed	40	72	32,250
AE29	55	Vertical, unobstructed	60	70	52,800

Authority for Requirement: DNR Construction Permits specified in Table: Paint Booths

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

For all emission units.

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Plan required for EU 57, EU 58, EU 73, EU 74, and EU 82.

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

The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility’s implementation of its obligation to operate according to good air pollution control practice.

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

Manual and Robotic Paint Booth Operational and Maintenance Plan

Weekly

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

Reporting and Recordkeeping

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 manufacturer’s recommendations.

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: See Table: Natural Gas Boilers

Associated Equipment

Associated Emission Unit ID Numbers: See Table: Natural Gas Boilers

Table: Natural Gas Boilers ⁽¹⁾

Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Raw Material/Fuel	Rated Capacity (MMBtu/Hr.)
GE1	EU20	Natural Gas Boiler	Natural Gas	15.574
GE2	EU21	Natural Gas Boiler	Natural Gas	15.574

⁽¹⁾ These two units were installed in 1974 and not applicable construction permitting or NSPS Subpart Dc. An applicability determination will need to be re-visited if these units are modified or re-constructed in the future.

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40%

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

Pollutant: Particulate Matter

Emission Limit(s): 0.6 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"

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 24.108(3)

Emission Point ID Number: FUGWELD & OE15

Associated Equipment

EP#	EU#	Emission Unit Description	Maximum Design Capacity	CE#	Control Equipment Description	Permit #
FUGWELD	EU30	Welding Operations	25.59 lb electrode/hr	None	None	13-A-065-S1
OE15	EU35	Reclaim Welding	25.59 lb electrode/hr	CE35	Cartridge Filter	98-A-452-S1

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 % ⁽¹⁾

Authority for Requirement: DNR Construction Permit 13-A-065-S1 & 98-A-452-S1
567 IAC 23.3(2)"d"

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

EP FUGWELD

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 13-A-065-S1
567 IAC 23.3(2)"a"

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 3.29 lb/hr

Authority for Requirement: DNR Construction Permit 13-A-065-S1

EP OE15

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf, 2.4 lb/hr

Authority for Requirement: DNR Construction Permit 98-A-452-S1
567 IAC 23.3(2)"a"

NESHAP

These sources are subject to the requirements of 40 CFR Part 63, Subpart XXXXXX, National Emission Standards for Hazardous Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Source Categories. The subpart applies if the facility uses materials that contain or have the potential to emit metal fabrication or finishing metal HAP (MFHAP), which are the compounds of cadmium, chromium, lead, manganese, and nickel, or any of these metals in the elemental form with the exception of lead.

Authority for Requirement: DNR Construction Permit 13-A-065-S1 & 98-A-452-S1
40 CFR 63 Subpart XXXXXX
567 IAC 23.1(4)"ex"

Operating Requirements and Associated Monitoring and Recordkeeping

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

- A. The facility-wide amount of E70S welding electrode used shall not exceed 5,500,000 pounds per twelve-month rolling period.
 - i. The facility shall record the monthly usage of E70S welding electrode, in applicable units, and determine E70S welding electrode usage on a rolling 12-month basis for each month of operation.
- B. The facility-wide amount of E71T welding electrode used shall not exceed 1,000 pounds per twelve-month rolling period.
 - i. The facility shall record the monthly usage of E71T welding electrode, in applicable units, and determine E71T welding electrode usage on a rolling 12-month basis for each month of operation.
- C. A Material Safety and Data Sheet (MSDS) or equivalent of each material utilized in the welding operations shall be kept on-site and available for inspection by the IDNR.
- D. For the purposes of determining the amount of electrode used (i.e., recordkeeping requirement), the facility may assume that a material is completely consumed on the day the material is delivered to the plant and/or removed from storage.
- E. The owner or operator shall comply with the emission unit operation requirements of 40 CFR §63.11516(f).

Authority for Requirement: DNR Construction Permit 13-A-065-S1 & 98-A-452-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP ID	Stack Height, Feet	Discharge Style	Stack Opening, inches	Stack Temperature, °F	Exhaust Flowrate, SCFM
FUGWELD	Vents Inside	NA	NA	68	NA
OE15	50	Vertical Unobstructed	18	70	2800

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: See Table: Cutting Operations

Associated Equipment

Associated Emission Unit ID Numbers: See Table: Cutting Operations

Table: Cutting Operations

Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Raw Material	Rated Capacity
FUGTC	EU40	Thermal Cutting	Metal	3,120 cf/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: Fugitive Dust

Emission Limit: 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 24.108(3)

Emission Point ID Number: See Table: Storage Tanks

Associated Equipment

Associated Emission Unit ID Numbers: See Table: Storage Tanks

Table: Storage Tanks

Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Raw Material	Size (gal)	Construction Permit Number
EPT01	EUT01	Diesel Fuel #1 Storage Tank	Diesel Fuel	10,092	01-A-300-S3
EPT02	EUT02	Antifreeze Tank	Antifreeze	10,000	01-A-301
EPT03	EUT03	Hydraulic Oil Tank	Hydraulic Oil	15,000	01-A-303
EPT04	EUT04	Engine Oil Tank	Engine Oil	15,000	01-A-304
EPT05	EUT05	Lead Free Gasoline Tank (1,000 gal.)*	Gasoline	1,000	NA
EPT09	EUT09	Used Coolant Tank	Used Coolant	6,000	01-A-302

* Subject to 40 CFR Part 63, Subpart CCCCCC: National Emissions Standards for Hazardous Air Pollutants: Gasoline Dispensing Facilities

Applicable Requirements

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

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

The owner or operator is required to report all emissions as required by law, regardless of whether a specific emission limit has been established in this permit. The following emission limits shall not be exceeded:

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 6.41 lb/yr ⁽¹⁾

⁽¹⁾ This emission limit applies to EPT01, Diesel Fuel #1 Storage Tank only

Authority for Requirement: DNR Construction Permit 01-A-300-S3

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

For Emission Unit EUT01 only:

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

- A. The owner or operator shall determine the cumulative throughput of material for each month of operation. Calculate and record the rolling 12-month totals.

Authority for Requirement: DNR Construction Permit 01-A-300-S3

Reporting & Recordkeeping

All records as required by this permit shall be kept on-site for 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:

For Emission Units ET02, ET03, ET04 and ET09:

1. Determine the annual throughput of material for each tank on a rolling-12-month basis for each month of operation.

Authority for Requirement: DNR Construction Permits 01-A-301, 01-A-303, 01-A-304 and 01-A-302

Emission Point Characteristics

These emission points shall conform to the specifications listed in Table: Storage Tanks-Emission Point Characteristics below.

Table: Storage Tanks-Emission Point Characteristics

Emission Point Number	Emission Unit Number	Construction Permit #	Stack Characteristics				
			Height (feet from ground)	Diameter (inches)	Exhaust Flowrate (scfm)	Exhaust Temp. (°F)	Discharge Style
EPT01	EUT01	01-A-300-S3	18	6	Displacement	70	Obstructed Vertical
EPT02	EUT02	01-A-301	18	6	Displacement	70	Obstructed Vertical
EPT03	EUT03	01-A-303	25.33	8	Displacement	70	Obstructed Vertical
EPT04	EUT04	01-A-304	25.33	8	Displacement	70	Obstructed Vertical
EPT09	EUT09	01-A-302	28	6	Displacement	70	Downward

Authority for Requirement: DNR Construction Permits listed in Table: Storage Tanks-Emission Point Characteristics

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP200 & EP201

Associated Equipment

Associated Emission Unit ID Numbers: EU200 and EU201

Table: Back Up Emergency Diesel Engines

EP#	EU#	Emission Unit Description	Maximum Design Capacity
EP200	EU200	Backup Fire Pump Engine 1	
EP201	EU201	Backup Fire Pump Engine 2	

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement:

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

Pollutant: Particulate Matter

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)

NESHAP:

The emergency engine is subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590(a)(2)(iii) this emergency engine, located at an area source, is a new stationary RICE as it was constructed on or after June 12, 2006.

According to 40 CFR 63.6590(c)(1), a new stationary RICE located at an area source of HAP emissions must meet the requirements of Part 63 by meeting the requirements of 40 CFR Part 60 Subpart IIII for compression ignition engines. No further requirements apply for this engine under Part 63.

NSPS Subpart IIII Requirements

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

Emission Standards:

According to 40 CFR 60.4205(c) and Table 4 to Subpart IIII, you must comply with the following emission standards in grams/kW-hr (grams/HP-hr):

Maximum Engine Power	Model Year(s)	NMHC + NOx	CO	PM
130 ≤ kW ≤ 560 (175 ≤ HP ≤ 750)	2009+	4.0 (3.0)	3.5 (2.6)	0.20 (0.15)

Fuel Requirements (if using 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 1090.305.

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
100 ≤ HP ≤ 500	Within 1 year of engine startup, or non-permitted action ⁽¹⁾	Not required

⁽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 60.4209(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 60.4214(b).

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

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

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: See Table: Emergency Generators

Associated Equipment

Associated Emission Unit ID Numbers: See Table: Emergency Generators

Table: Emergency Generators

Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Raw Material	Rated Capacity (Bhp/Hr.)
EP49	EU49	Emergency Generator	Natural Gas	149
EU50	EU50	Emergency Generator	Natural Gas	162

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %

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

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr./dscf

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

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv

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

NESHAP:

These emergency engines are subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590(a)(1)(iii) these spark ignition emergency engines, located at an area source, are existing stationary RICE as they were constructed prior to June 12, 2006.

Compliance Date

Per 63.6595(a)(1) you must comply with the provisions of subpart ZZZZ that are applicable by October 19, 2013.

Operation and Maintenance Requirements 40 CFR 63.6603, 63.6625, 63.6640 and Tables 2d and 6 to Subpart ZZZZ

1. Change oil and filter every 500 hours of operation or annually, whichever comes first. (See 63.6625(j) for the oil analysis option to extend time frame of requirements.)

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

Operating Limits 40 CFR 63.6640(f)

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

Recordkeeping Requirements 40 CFR 63.6655

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

Notification and Reporting Requirements 40 CFR 63.6645, 63.6650 and Table 2d to Subpart ZZZZ

1. An initial notification is not required per 40 CFR 63.6645(a)(5).
2. A report may be required for failure to perform the work practice requirements on the schedule required in Table 2d. (See Footnote 2 of Table 2d for more information.)

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: FUGVOC

Associated Equipment

Associated Emission Unit ID Number: EU23

Emission Unit vented through this Emission Point: EU23

Emission Unit Description: Miscellaneous Fugitive VOC Emission Sources

Raw Material/Fuel: Solvents, Adhesives and Sealants

Rated Capacity: N/A

Applicable Requirements

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

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

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 14.54 TPY ⁽¹⁾

Authority for Requirement: DNR Construction Permit 05-A-549-S1

Pollutant: Hazardous Air Pollutants (HAPs)

Emission Limit(s): 7.5 TPY ⁽²⁾ (Single HAP) and 17.0 TPY ⁽²⁾ (Total HAPs)

Authority for Requirement: DNR Construction Permit 05-A-549-S1

- ⁽¹⁾ The VOC ton per year requested limit for this unit is to reduce the potential to emit at the facility and to put into place an enforceable limit to be used in demonstrating the facility is a synthetic minor source with regard to Prevention of Significant Deterioration (PSD) requirements.
- ⁽²⁾ The single and total HAP ton per year requested limit is to reduce the potential to emit at the facility and to put into place an enforceable limit to be used in demonstrating the facility is a minor source of HAPs. These limits cover all units and activities at the facility which emit HAPs, excluding all combustion, storage tanks, welding, shot blasting, and metal cutting units.

Operating Requirements with Associated Monitoring and Recordkeeping

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

- A. The facility shall maintain a log showing all VOC and HAP containing materials used under emission unit EU23.
- B. The facility shall maintain SDS, technical data sheets or equivalent records on site to verify the VOC, single HAP, and total HAP content of all materials used at the facility.

- C. The facility shall maintain daily records on the identification and amount of each VOC-containing material used under emission unit EU23. For the purposes of the daily recordkeeping requirement, the facility may assume that a material is completely consumed on the day they are delivered to the plant or removed from storage.
- D. Calculate the VOC emissions in tons for all materials used under emission unit EU23 on a monthly basis and keep a 12-month rolling total. Records for VOC emissions shall be kept on a monthly basis until the VOC emissions exceed 11.63 TPY. At this point the owner or operator shall immediately begin keeping a 365-day rolling total amount of VOC emitted at the facility. Calculation requirements will revert back to a monthly basis if the 12-month rolling total of VOC emitted at the facility returns to a level below the 11.63 TPY threshold.
- E. The facility shall maintain daily records on the identification and amount of each HAP-containing material used at the facility, except those from combustion, storage tanks, welding, shot blasting, and metal cutting units. For the purposes of the daily recordkeeping requirement, the facility may assume that a material is completely consumed on the day they are delivered to the plant or removed from storage.
- F. Calculate the individual HAP emissions in tons from all sources, except those from combustion, storage tanks, welding, shot blasting, and metal cutting units, for the facility on a monthly basis and keep a 12-month rolling total. Records for HAP emissions shall be kept on a monthly basis until facility wide emissions for any individual HAP exceeds 6.0 TPY. At this point the owner or operator shall immediately begin keeping a 365-day rolling total amount for all individual HAP emitted at the facility. Calculation requirements will revert back to a monthly basis if the 12-month rolling total of each individual HAP emitted at the facility returns to a level below the 6.0 TPY threshold.
- G. Calculate the total HAP emissions in tons from all sources, except those from combustion, storage tanks, welding, shot blasting, and metal cutting units, for the facility on a monthly basis and keep a 12-month rolling total. Records for HAP emissions shall be kept on a monthly basis until the facility wide total HAP emissions exceed 13.6 TPY. At this point the owner or operator shall immediately begin keeping a 365-day rolling total amount of total HAP emitted at the facility. Calculation requirements will revert back to a monthly basis if the 12-month rolling total of total HAP emitted at the facility returns to a level below the 13.6 TPY threshold.

Authority for Requirement: DNR Construction Permit 05-A-549-S1

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: PM02

Associated Equipment

Associated Emission Unit ID Numbers: EU53

Emission Unit vented through this Emission Point: EU53
Emission Unit Description: Paint Mixing Room
Raw Material/Fuel: Paint
Rated Capacity: NA

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.

There are no emission limits at this time.

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 42.5
Stack Opening, (inches, dia.): 18
Exhaust Flow Rate (scfm): 2,800
Exhaust Temperature (□F): Ambient
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 00-A-802

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: CE5

Associated Equipment

Associated Emission Unit ID Number: EU59

Emission Unit vented through this Emission Point: EU59

Emission Unit Description: Paint Curing Oven

Raw Material/Fuel: Natural Gas

Rated Capacity: 3.5 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.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: DNR Construction Permit 05-A-166-S1

567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: DNR Construction Permit 05-A-166-S1

567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv

Authority for Requirement: DNR Construction Permit 05-A-166-S1

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.

Process throughput

This oven shall be fired by natural gas only.

Authority for Requirement: DNR Construction Permit 05-A-166-S1

Emission Point Characteristics

These emission points shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 61
- Stack Opening, (inches, dia.): 24
- Exhaust Flow Rate (scfm): 5,483
- Exhaust Temperature (°F): 250
- Discharge Style: Vertical Unobstructed
- Authority for Requirement: DNR Construction Permit 05-A-166-S1

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

Monitoring Requirements

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: AE21

Associated Equipment

Associated Emission Unit ID Number: EU60

Emission Unit vented through this Emission Point: EU60
Emission Unit Description: Catalyst Paint Mixing Room
Raw Material/Fuel: Paint
Rated Capacity: NA

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.

There are no emission limits at this time.

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 50
Stack Opening, (inches, dia.): 24
Exhaust Flow Rate (scfm): 1500
Exhaust Temperature (□F): Ambient
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 05-A-167

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: GE7

Associated Equipment

Associated Emission Unit ID Number: EU61

Emission Unit vented through this Emission Point: GE7

Emission Unit Description: Hot Water Boiler

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% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 05-A-183

567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter

Emission Limit(s): 0.1 lb/hr

Authority for Requirement: DNR Construction Permit 05-A-183

Pollutant: Particulate Matter

Emission Limit(s): 0.6 lb/MMBtu

Authority for Requirement: DNR Construction Permit 05-A-183

567 IAC 23.3(2)"b"

Pollutant: PM₁₀

Emission Limit(s): 0.1 lb/hr

Authority for Requirement: DNR Construction Permit 05-A-183

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv

Authority for Requirement: DNR Construction Permit 05-A-183

567 IAC 23.3(3)"e"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 0.05 lb/hr

Authority for Requirement: DNR Construction Permit 05-A-183

NSPS Applicability

The Hot Water Boiler is subject to NSPS Subpart Dc – Standards of Performance for Small Industrial-Commercial Institutional Steam Generating Units (beginning of 40 CFR §60.40c). Subject to the General Provisions of Subpart A.

Operational Limits & Requirements

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

Process throughput

1. This emission unit shall use natural gas only.
2. The owner or operator shall send a certification to the Department stating that this emission unit will burn only natural gas.

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:

1. The amount of fuel used on a monthly basis.
2. A copy of all excess emission reports required for Subpart Dc. Per the reduced recordkeeping for Subpart Dc the facility may report excess emissions (or lack thereof) on an annual frequency. It should be noted that per Construction Permit Condition 7 the facility is also required to orally notify the DNR field office of excess emissions within eight (8) hours and submit a written report within seven (7) days.

Authority for Requirement: DNR Construction Permit 05-A-183

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 50
- Stack Opening, (inches, dia.): 22
- Exhaust Flow Rate (scfm): 2,491
- Exhaust Temperature (°F): 360
- Discharge Style: Vertical Unobstructed
- Authority for Requirement: DNR Construction Permit 05-A-183

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

Monitoring Requirements

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: SB01 & SB04

Associated Equipment

Table: Control Equipment

Emission Point Number	Associated Emission Unit Number	Control Equipment Number	Control Equipment Description
SB01	SB01	CE SB01	Baghouse
SB04	SB04	CE SB04	Baghouse

Table: Shot Blast Equipment

Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit No.
SB01	SB01	Shot Blast #M7711	Shot Abrasive	127,200 lb/hr	18-A-417
SB04	SB04	Shot Blast #M16685	Shot Abrasive	127,200 lb/hr	18-A-420

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 % ⁽¹⁾

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

DNR Construction Permits 18-A-417 & 18-A-420

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.05 gr/dscf/ 0.40 lb/hr

Authority for Requirement:

DNR Construction Permits 18-A-417 & 18-A-420

567 IAC 23.4(6)

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.40 lb/hr

Authority for Requirement: DNR Construction Permits 18-A-417 & 18-A-420

NESHAP

This source is subject to the requirements of 40 CFR Part 63, Subpart XXXXXX, National Emission Standards for Hazardous Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Source Categories. The subpart applies if the facility uses materials that contain or have the potential to emit metal fabrication or finishing metal HAP (MFHAP), which are the compounds of cadmium, chromium, lead, manganese, and nickel, or any of these metals in the elemental form with the exception of lead.

Authority for Requirement: DNR Construction Permits 18-A-417 & 18-A-420

40 CFR 63 Subpart XXXXXX

567 IAC 23.1(4)"ex"

Operating Requirements with Associated Monitoring and Recordkeeping

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

- A. The owner or operator shall comply with the emission unit operational requirements of 40 CFR §63.11516(a)(2).
- B. The owner or operator shall maintain records of configuration, operation, and maintenance of the emission unit according to the manufacturer's recommendations.
- C. The owner or operator shall prepare and submit reports as required by 40 CFR §63.11519(b).
- D. The owner or operator shall keep records as required by 40 CFR §63.11519(c).
- E. The owner or operator shall not use steel shot material with a total HAP content in excess of 3.3 percent by weight in this emission unit.
- F. The owner or operator shall retain Safety Data Sheets (SDS) or manufacturer certification that states HAP constituent(s) content in percent by weight used in the emission unit.

Authority for Requirement: DNR Construction Permits 18-A-417 & 18-A-420

Emission Point Characteristics

The emission points shall conform to the specifications listed below.

EP SB01

Stack Height, (ft, from the ground): Vents Internally
Stack Opening, (inches, dia.): Vents Internally
Exhaust Flow Rate (scfm): 6,200
Exhaust Temperature (°F): 70
Discharge Style: Vents Internally
Authority for Requirement: DNR Construction Permits 18-A-417

EP SB04

Stack Height, (ft, from the ground): Vents Internally
Stack Opening, (inches, dia.): Vents Internally
Exhaust Flow Rate (scfm): 8,000
Exhaust Temperature (°F): 70
Discharge Style: Vents Internally
Authority for Requirement: DNR Construction Permit 18-A-420

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: SB07

Associated Equipment

Associated Emission Unit ID Number: SB07
Emissions Control Equipment ID Number: CE SB07
Emissions Control Equipment Description: Cartridge Filters
Continuous Emissions Monitors ID Numbers: N/A

Emission Unit vented through this Emission Point: SB07
Emission Unit Description: Oxide Removal Machine
Raw Material/Fuel: Sheet Metal
Rated Capacity: 3,805 ft²/hr

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40% ⁽¹⁾
Authority for Requirement: DNR Construction Permit 19-A-090
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.06 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 19-A-090

Pollutant: Total Hazardous Air Pollutants (HAP)
Emission Limit(s): 0.027 tons/yr
Authority for Requirement: DNR Construction Permit 19-A-090

NESHAP

This source is subject to the requirements of 40 CFR Part 63, Subpart XXXXXX, National Emission Standards for Hazardous Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Source Categories. The subpart applies if the facility uses materials that contain or have the potential to emit metal fabrication or finishing metal HAP (MFHAP), which are the compounds of cadmium, chromium, lead, manganese, and nickel, or any of these metals in the elemental form with the exception of lead.

Authority for Requirement: DNR Construction Permit 19-A-090
40 CFR 63 Subpart XXXXXX
567 IAC 23.1(4)"ex"

Operating Requirements with Associated Monitoring and Recordkeeping

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

- A. The owner or operator shall comply with the emission unit operational requirements per 40 CFR §63.11516(c).
 - (1) You must capture emissions and vent them to a filtration control device. You must demonstrate compliance with this requirement by maintaining a record of the manufacturer's specifications for the filtration control devices, as specified by the requirements in §63.11519(c)(4), "Notification, recordkeeping, and reporting Requirements."
 - (2) You must implement management practices to minimize emissions of MFHAP as specified in paragraphs (c)(2)(i) and (ii) of this section.
 - (i) You must take measures necessary to minimize excess dust in the surrounding area to reduce MFHAP emissions, as practicable;
 - (ii) You must operate all equipment associated with the operation of dry grinding and dry polishing with machines, including the filtration control device, according to manufacturer's instructions.
- B. The owner or operator shall maintain records of configuration, operation, and maintenance of the emission unit according to the manufacturer's recommendations.
- C. The owner or operator shall prepare and submit reports as required by 40 CFR §63.11519(b).
- D. The owner or operator shall keep records as required per 40 CFR §63.11519(c):
 - (1) General compliance and applicability records. Maintain information specified in paragraphs (c)(1)(i) through (ii) of this section for each affected source.
 - (i) Each notification and report that you submitted to comply with this subpart, and the documentation supporting each notification and report.
 - (ii) Records of the applicability determinations as in §63.11514(b)(1) through (5), "Am I subject to this subpart," listing equipment included in its affected source, as well as any changes to that and on what date they occurred, must be maintained for 5 years and be made available for inspector review at any time.

- (2) Maintain a record of the manufacturer's specifications for the control devices used to comply with §63.11516, "What are my standards and management practices?"
 - (3) Manufacturer's instructions. If you comply with this subpart by operating any equipment according to manufacturer's instruction, you must keep these instructions readily available for inspector review.
 - (4) Your records must be maintained according to the requirements in paragraphs (c)(14)(i) through (iii) of this section.
 - (i) Your records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1), "General Provisions." Where appropriate, the records may be maintained as electronic spreadsheets or as a database.
 - (ii) As specified in §63.10(b)(1), "General Provisions," you must keep each record for 5 years following the date of each occurrence, measurement, corrective action, report, or record.
 - (iii) You must keep each record onsite for at least 2 years after the date of each occurrence, measurement, corrective action, report, or record according to §63.10(b)(1), "General Provisions." You may keep the records offsite for the remaining 3 years.
- E. The owner or operator shall not process material with a total HAP content in excess of 10.0 percent by weight in this emission unit (EU SB07).
- F. The owner or operator shall retain Safety Data Sheets (SDS) or manufacturer certification that states HAP constituent(s) content in percent by weight used in the emission unit.

Authority for Requirement: DNR Construction Permit 19-A-090

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): Vents Inside

Stack Opening, (inches, dia.): Vents Inside

Exhaust Flow Rate (scfm): 1,900

Exhaust Temperature (°F): 70

Discharge Style: Vents Inside

Authority for Requirement: DNR Construction Permit 19-A-090

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: SB08

Associated Equipment

Associated Emission Unit ID Number: SB06, SB08, SB09
Emissions Control Equipment ID Number: CE SB08
Emissions Control Equipment Description: Cartridge Filters
Continuous Emissions Monitors ID Numbers: N/A

EU ID	Description	Maximum Rated Capacity	Control Equipment Description and ID
SB06	Enclosed Tumble Blast	19,200 lb of shot per hour	Cartridge Filters (SB08)
SB08	Enclosed Shotblast – BCT Plate Blast	175,680 lb of shot per hour	
SB09	Enclosed Drum Blast	21,000 lb of shot per 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⁾

Authority for Requirement: DNR Construction Permit 19-A-135
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.88 lb/hr, 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 19-A-135
567 IAC 23.3(2)"a"

Pollutant: Total Hazardous Air Pollutants (HAP)

Emission Limit(s): 0.09 tons/yr

Authority for Requirement: DNR Construction Permit 19-A-135

NESHAP

This source is subject to the requirements of 40 CFR Part 63, Subpart XXXXXX, National Emission Standards for Hazardous Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Source Categories. The subpart applies if the facility uses materials that contain or have the potential to emit metal fabrication or finishing metal HAP (MFHAP), which are the compounds of cadmium, chromium, lead, manganese, and nickel, or any of these metals in the elemental form with the exception of lead.

Authority for Requirement: DNR Construction Permit 19-A-135
40 CFR 63 Subpart XXXXXX
567 IAC 23.1(4)"ex"

Operating Requirements with Associated Monitoring and Recordkeeping

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

- A. The owner or operator shall comply with the emission unit operational requirements per 40 CFR §63.11516(a)(2).
- B. The owner or operator shall maintain records of configuration, operation, and maintenance of the emission unit according to 40 CFR §63.11516(a)(1) and 40 CFR §63.11516(a)(2).
- C. The owner or operator shall prepare and submit reports as required by 40 CFR §63.11519(b).
- D. The owner or operator shall keep records as required per 40 CFR §63.11519(c):
- E. The owner or operator shall not use shot material with a total HAP content in excess of 10.0 percent by weight in these emission units (SB06, SB08, and SB09).
- F. The owner or operator shall retain Safety Data Sheets (SDS) or manufacturer certification of shot material and processed material that states HAP constituent(s) content in percent by weight used in these emission units.

Authority for Requirement: DNR Construction Permit 19-A-135

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 64
- Stack Opening, (inches, dia.): 36
- Exhaust Flow Rate (scfm): 20,600
- Exhaust Temperature (°F): 70
- Discharge Style: Vertical Obstructed
- Authority for Requirement: DNR Construction Permit 19-A-135

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

Monitoring Requirements

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: SB10

Associated Equipment

Associated Emission Unit ID Number: SB10
Emissions Control Equipment ID Number: CE SB10
Emissions Control Equipment Description: Cartridge Filters
Continuous Emissions Monitors ID Numbers: N/A

Emission Unit vented through this Emission Point: SB10
Emission Unit Description: BCT Roller Blast
Raw Material/Fuel: Steel Shot
Rated Capacity: 112,800 lb/hr

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 21-A-195
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.664 lb/hr, 0.05 gr/dscf

Authority for Requirement: DNR Construction Permit 21-A-195
567 IAC 23.4(6)

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.664 lb/hr

Authority for Requirement: DNR Construction Permit 21-A-195

NESHAP

This source is subject to the requirements of 40 CFR Part 63, Subpart XXXXXX, National Emission Standards for Hazardous Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Source Categories. The subpart applies if the facility uses materials that contain or have the potential to emit metal fabrication or finishing metal HAP (MFHAP), which are the compounds of cadmium, chromium, lead, manganese, and nickel, or any of these metals in the elemental form with the exception of lead.

Authority for Requirement: DNR Construction Permit 21-A-195
40 CFR 63 Subpart XXXXXX
567 IAC 23.1(4)"ex"

Operating Requirements with Associated Monitoring and Recordkeeping

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

- A. The owner or operator shall comply with the emission unit operational requirements of 40 CFR §63.11516(a)(2).
- B. The owner or operator shall maintain records of configuration, operation, and maintenance of the emission unit according to the manufacturer’s recommendations.
- C. The owner or operator shall prepare and submit initial notification per 40 CFR §63.11519(a).
- D. The owner or operator shall prepare and submit reports as required by 40 CFR §63.11519(b).
- E. The owner or operator shall keep records as required by 40 CFR §63.11519(c).
- F. The owner or operator shall not use steel shot material with a total HAP content in excess of 3.3 percent by weight in this emission unit.
- G. The owner or operator shall retain Safety Data Sheets (SDS) or manufacturer certification that states HAP constituent(s) content in percent by weight used in the emission unit.

Authority for Requirement: DNR Construction Permit 21-A-195

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 68
- Stack Opening, (inches, dia.): 36
- Exhaust Flow Rate (scfm): 15,500
- Exhaust Temperature (°F): 168
- Discharge Style: Vertical Obstructed
- Authority for Requirement: DNR Construction Permit 21-A-195

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

Monitoring Requirements

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: SB11

Associated Equipment

Associated Emission Unit ID Number: SB11
Emissions Control Equipment ID Number: SB11
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: N/A

Emission Unit vented through this Emission Point: SB10
Emission Unit Description: BCT Roller Blast #M207621
Raw Material/Fuel: Steel Shot
Rated Capacity: 112,800 lb/hr

Applicable Requirements

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

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

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

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

NESHAP

This source is subject to the requirements of 40 CFR Part 63, Subpart XXXXXX, National Emission Standards for Hazardous Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Source Categories. The subpart applies if the facility uses materials that contain or have the potential to emit metal fabrication or finishing metal HAP (MFHAP), which are the compounds of cadmium, chromium, lead, manganese, and nickel, or any of these metals in the elemental form with the exception of lead.

Authority for Requirement: 40 CFR 63 Subpart XXXXXX
567 IAC 23.1(4)"ex"

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 24.108(3)

Emission Point ID Number: PC1, PC2, PC3

Associated Equipment

Table: Control Equipment

Emission Point Number	Associated Emission Unit Number	Control Equipment Number	Control Equipment Description	Control Equipment
PC1	EU89 & EU95	CE PF1 CE PF7	Two Cartridge Filters	CE PF1 controls emissions from EU89, and CE PF7 controls emissions from EU95
PC2	EU90 and EU91	CE PF2 CE PF3	Two Cartridge Filters	CE PF2 controls emissions from EU90, and CE PF3 controls emissions from EU91
PC3	EU92 & EU93	CE PF4 CE PF5	Two Cartridge Filters	CE PF4 controls emissions from EU92, and CE PF5 controls emissions from EU93

Table: Plasma Cutters

Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit No.
PC1	EU89 & EU95	Two HyDefinition Plasma Cutters	Steel	Max capacity 180 in/min each	13-A-432-S1
PC2	EU90 and EU91	Two HyDefinition Plasma Cutters	Steel	Max capacity 180 in/min each	13-A-433-S1
PC3	EU92 and EU93	HyDefinition Plasma Cutter, EU92 and HyDefinition Plasma and Laser Cutter, EU93	Steel	Max capacity 180 in/min each	13-A-434-S1

Applicable Requirements

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

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

EP PC1, PC2, PC3, & PC4

Pollutant: Opacity

Emission Limit(s): 40 % ⁽¹⁾

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

DNR Construction Permits 13-A-432-S1, 13-A-433-S1, 13-A-434-S1

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.05 gr/dscf

Authority for Requirement: DNR Construction Permits 13-A-432-S1, 13-A-433-S1, 13-A-434-S1
567 IAC 23.4(6)

EP PC1, PC2, & PC3

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.64 lb/hr

Authority for Requirement: DNR Construction Permits 13-A-432-S1, 13-A-433-S1 & 13-A-434-S1

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 2.4 lb/hr

Authority for Requirement: DNR Construction Permits 13-A-432-S1, 13-A-433-S1 & 13-A-434-S1

Operating Requirements with Associated Monitoring and Recordkeeping

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

- A. The owner or operator shall inspect and maintain the control equipment according to manufacturer’s recommendations.
- B. The owner or operator shall keep a record of control equipment inspections and maintenance.

Authority for Requirement: DNR Construction Permit 13-A-432-S1, 13-A-433-S1, 13-A-434-S1

Emission Point Characteristics

The emission points shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 38

Stack Opening, (inches, dia.): 30

Exhaust Flow Rate (scfm): 10,000

Exhaust Temperature (°F): 110

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permits 13-A-432-S1, 13-A-433-S1, 13-A-434-S1

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: PC6

Associated Equipment

Associated Emission Unit ID Number: EU119
Emissions Control Equipment ID Number: CE PF9
Emissions Control Equipment Description: Cartridge Filters
Continuous Emissions Monitors ID Numbers: N/A

Emission Unit vented through this Emission Point: EU119
Emission Unit Description: Combination Oxyfuel/Plasma Cutting Machine
Raw Material/Fuel: Steel
Rated Capacity: 2,820 in/hr steel, 2.2 gal/hr propane

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 21-A-010-S1
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.05 gr/dscf

Authority for Requirement: 567 IAC 23.4(6)
DNR Construction Permit 21-A-010-S1

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 1.0 lb/hr

Authority for Requirement: DNR Construction Permit 21-A-010-S1

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppm_v

Authority for Requirement: DNR Construction Permit 21-A-010-S1

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 3.5 lb/hr

Authority for Requirement: DNR Construction Permit 21-A-010-S1

Operating Requirements with Associated Monitoring and Recordkeeping

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

- A. The owner or operator shall maintain and adhere to a facility-maintained Operation and Maintenance Plan that includes inspections and maintaining of the control equipment (CE PF9) according to manufacturer's specifications.
- B. The owner or operator shall keep a record of completion of all activity required by the facility-maintained Operation and Maintenance Plan.

Authority for Requirement: DNR Construction Permit 21-A-010-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 68

Stack Opening, (inches, dia.): 24

Exhaust Flow Rate (scfm): 9,600

Exhaust Temperature (°F): 170

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 21-A-010-S1

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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

The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-TC2 & EP-TC3

Associated Equipment

Table: Oxy-Fuel Cutters

Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Raw Material	Rated Capacity	Control Equipment	Construction Permit No.
EP-TC2	EU-110	Oxy-Fuel Cutting Machine	Steel	9 inches steel/minute	CE-TC2 Cartridge Filters	22-A-082
EP-TC3	EU-120	Oxy-Fuel Cutting Machine	Steel	4,320 inches steel/hour 2.9 gallon propane/hour	CE-TC3 Cartridge Filters	22-A-189-S1

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 % ⁽¹⁾

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

DNR Construction Permits 22-A-082 & 22-A-189-S1

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.05 gr/dscf

Authority for Requirement: 567 IAC 23.4(6)

DNR Construction Permits 22-A-082 & 22-A-189-S1

EP-TC2 Only

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.43 lb/hr

Authority for Requirement: DNR Construction Permits 22-A-082

EP-TC3 Only

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 1.0 lb/hr

Authority for Requirement: DNR Construction Permits 22-A-189-S1

Pollutant: Sulfur Dioxide (SO₂)
Emission Limit(s): 500 ppm_v
Authority for Requirement: DNR Construction Permits 22-A-189-S1

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit(s): 4.63 lb/hr
Authority for Requirement: DNR Construction Permits 22-A-189-S1

Operational Requirements with Associated Monitoring and Recordkeeping

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

- A. The owner or operator shall maintain and adhere to a facility-maintained Operation and Maintenance Plan that includes inspections and maintaining of the control equipment (CE-TC2 & CE-TC3) according to the manufacturer's specifications.
 - i. The owner or operator shall keep a record of completion of all activity required by the facility-maintained Operation and Maintenance Plan.

Authority for Requirement: DNR Construction Permits 22-A-082 & 22-A-189-S1

Emission Point Characteristics

The emission points shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 66
Stack Opening, (inches, dia.): 30
Exhaust Flow Rate (scfm): 8,900
Exhaust Temperature (°F): 165
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permits 22-A-082 & 22-A-189-S1

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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

The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

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

Authority for Requirement: 567 IAC 24.108(3)

IV. General Conditions

This permit is issued under the authority of the Iowa Code subsection 455B.133(8) and in accordance with 567 Iowa Administrative Code (IAC). When 567 IAC as amended May 15, 2024, and cited in this permit becomes State Implementation Plan (SIP) approved, it will supersede 567 IAC as amended February 8, 2023. Prior to May 15, 2024, all Title V rule citations in this Title V permit were found and cited in 567 IAC Chapter 22. During the period from May 15, 2024, to the date that 567 IAC as amended May 15, 2024, is approved into the SIP, both 567 IAC as amended May 15, 2024, and 567 IAC as amended February 8, 2023 form the legal basis for the applicable requirements included in this permit. A crosswalk showing the citation changes is attached to this permit in Appendix B - Executive Order 10 (EO10) Rules Crosswalk.

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 24.108(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 24.105(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 24.108(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 24.108(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 24.108(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 24.108(15)"c"*

G2. Permit Expiration

1. Except as provided in rule 567—24.104(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—24.105(455B). *567 IAC 24.116(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. 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 24.105(2). *567 IAC 24.105*

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 24.107(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 24.108(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 24.107(4). The semi-annual monitoring report shall be submitted to the director and the appropriate DNR Field office. 567 IAC 24.108 (5)

G6. Annual Fee

1. The permittee is required under subrule 567 IAC 24.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The emissions inventory shall be submitted annually by March 31 with forms specified by the department documenting actual emissions for the previous calendar year.
4. The fee shall be submitted annually by July 1 with forms specified by the department.
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.
6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 24.115(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 24.108 (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 24.108 (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 21.8(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 24.108(4), 567 IAC 24.108(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 24;
 - b. Compliance test methods specified in 567 Chapter 21; 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 24.108(6)*

G13. Hazardous Release

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

G14. Excess Emissions and Excess Emissions Reporting Requirements

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and, in a manner, consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a violation. If the owner or operator of a source maintains that the incident of excess emission was due to a malfunction, the owner or operator must show that the conditions which caused the incident of excess emission were not preventable by reasonable maintenance and control measures. Determination of any subsequent enforcement action will be made following review of this report. If excess emissions are occurring, either the control equipment causing the excess emission shall be repaired in an expeditious manner or the process generating the emissions shall be shutdown within a reasonable period of time. An expeditious manner is the time necessary to determine the cause of the excess emissions and to correct it within a reasonable period of time. A reasonable period of time is eight hours plus the period of time required to shut down the process without damaging the process equipment or control equipment. A

variance from this subrule may be available as provided for in Iowa Code section 455B.143. In the case of an electric utility, a reasonable period of time is eight hours plus the period of time until comparable generating capacity is available to meet consumer demand with the affected unit out of service, unless, the director shall, upon investigation, reasonably determine that continued operation constitutes an unjustifiable environmental hazard and issue an order that such operation is not in the public interest and require a process shutdown to commence immediately.

2. Excess Emissions Reporting

a. Initial Reporting of Excess Emissions. An incident of excess emission (other than an incident of excess emission during a period of startup, shutdown, or cleaning) shall be reported to the appropriate field office of the department within eight hours of, or at the start of the first working day following the onset of the incident. The reporting exemption for an incident of excess emission during startup, shutdown or cleaning does not relieve the owner or operator of a source with continuous monitoring equipment of the obligation of submitting reports required in 567-subrule 21.10(6). An initial report of excess emission is not required for a source with operational continuous monitoring equipment (as specified in 567-subrule 21.10(1)) if the incident of excess emission continues for less than 30 minutes and does not exceed the applicable emission standard by more than 10 percent or the applicable visible emission standard by more than 10 percent opacity. The initial report may be made by electronic mail (E-mail), in person, or by telephone and shall include as a minimum the following:

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

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

- i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and duration of the excess emission.
- iv. The cause of the excess emission.
- v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.
- vi. The steps that were taken to limit the excess emission.
- vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 21.7(1)-567 IAC 21.7(4)*

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 24.108(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 24.
 - b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
 - c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
 - d. The changes are not subject to any requirement under Title IV of the Act (revisions affecting Title IV permitting are addressed in rules 567—24.140(455B) through 567 - 24.144(455B));.
 - e. The changes comply with all applicable requirements.
 - f. For each such change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:
 - i. A brief description of the change within the permitted facility,
 - ii. The date on which the change will occur,
 - iii. Any change in emission as a result of that change,
 - iv. The pollutants emitted subject to the emissions trade
 - v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
 - vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
 - vii. Any permit term or condition no longer applicable as a result of the change.

567 IAC 24.110(1)

2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 24.110(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 24.110(1). *567 IAC 24.110(3)*

4. The permit shield provided in subrule 24.108(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 24.110(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 24.108(11)

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

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

2. Minor Title V Permit Modification.

- a. Minor Title V permit modification procedures may be used only for those permit modifications that satisfy all of the following:
 - i. Do not violate any applicable requirement;
 - ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit;
 - iii. Do not require or change a case by case determination of an emission limitation or other standard, or an increment analysis;
 - iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act;
 - v. Are not modifications under any provision of Title I of the Act; and
 - vi. Are not required to be processed as significant modification under rule 567 - 24.113(455B).
- b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:
 - i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;
 - ii. The permittee's suggested draft permit;
 - iii. Certification by a responsible official, pursuant to 567 IAC 24.107(4), that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used; and
 - iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 24.107(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 24.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against the facility.

3. Significant Title V Permit Modification.

Significant Title V modification procedures shall be used for applications requesting Title V permit modifications that do not qualify as minor Title V modifications or as administrative amendments. These include but are not limited to all significant changes in monitoring permit terms, every relaxation of reporting or recordkeeping permit terms, and any change in the method of measuring compliance with existing requirements. Significant Title V modifications shall meet all requirements of 567 IAC Chapter 24, including those for applications, public participation, review by affected states, and review by the administrator, as those requirements that apply to Title V issuance and renewal.

The permittee shall submit an application for a significant permit modification not later than three months after commencing operation of the changed source unless the existing Title V permit would prohibit such construction or change in operation, in which event the operation of the changed source may not commence until the department revises the permit. *567 IAC 24.111-567 IAC 24.113*

G19. Duty to Obtain Construction Permits

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

G20. Asbestos

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

G21. Open Burning

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

G22. Acid Rain (Title IV) Emissions Allowances

The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated there under. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners and operators of the unit or the designated representative of the owners and operators is prohibited. Exceedences of applicable emission rates are prohibited. "Held" in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. *567 IAC 24.108(7)*

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

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

G24. Permit Reopenings

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 24.108(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 24.108(17)"a", 567 IAC 24.108(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 24.114(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 24.114(2)*

5. A notice of intent shall be provided to the Title V source at least 30 days in advance of the date the permit is to be reopened, except that the director may provide a shorter time period in the case of an emergency. *567 IAC 24.114(3)*

G25. Permit Shield

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

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

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

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

- a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;
- b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
- c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;
- d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 24.108 (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 24.108 (8)*

G27. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege. *567 IAC 24.108 (9)"d"*

G28. Transferability

This permit is not transferable from one source to another. If title to the facility or any part of it is transferred, an administrative amendment to the permit must be sought consistent with the requirements of *567 IAC 24.111(1)*. *567 IAC 24.111 (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 24.3(3)"c"*

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

The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with applicable requirements of *567 – Chapter 23* or a permit condition. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. If the owner or operator does not provide timely notice to the department, the department shall not consider the test results or performance evaluation results to be a valid demonstration of compliance with applicable rules or permit conditions. Upon written request, the department may allow a notification period of less than 30 days. At the department's request, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. A testing protocol shall be submitted to the department no later than 15 days before the owner or operator conducts the compliance demonstration. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks (42 days) 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
6200 Park Ave
Suite 200
Des Moines, IA 50321
(515) 343-6589

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 21.10(7)"a", 567 IAC 21.10(9)

G31. Prevention of Air Pollution Emergency Episodes

The permittee shall comply with the provisions of 567 IAC Chapter 26 in the prevention of excessive build-up of air contaminants during air pollution episodes, thereby preventing the occurrence of an emergency due to the effects of these contaminants on the health of persons. *567 IAC 26.1(1)*

G32. Contacts List

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

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

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

Chief, Air Quality Bureau
Iowa Department of Natural Resources
6200 Park Ave
Suite 200
Des Moines, IA 50321
(515) 313-8325

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

Field Office 1

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

Field Office 2

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

Field Office 3

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

Field Office 4

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

Field Office 5

6200 Park Ave
Suite 200
Des Moines, IA 50321
(515) 725-0268

Field Office 6

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

Polk County Public Works Dept.

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

Linn County Public Health

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

Appendix A – NSPS and NESHAP Requirements Web Links

40 CFR Part 60, Subpart Dc: Web Link to Standards of Performance for Small Industrial-Commercial Institutional Steam Generating Units: https://www.ecfr.gov/cgi-bin/text-idx?node=sp40.7.60.d_0c

40 CFR Part 63, Subpart XXXXXX: Web Link to National Emissions Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories: <https://www.epa.gov/stationary-sources-air-pollution/nine-metal-fabrication-and-finishing-area-source-categories-40-cfr>

40 CFR Part 63, Subpart ZZZZ: Web Link to National Emissions Standards for Hazardous Air Pollutants: Stationary Reciprocating Internal Combustion Engines: <https://www.ecfr.gov/cgi-bin/text-idx?c=ecfr;rgn=div6;view=text;node=40%3A14.0.1.1.1.1;idno=40;sid=e94dcfde4a04b27290c445a56e635e58;cc=ecfr>

40 CFR Part 63, Subpart CCCCCC: Web Link to National Emissions Standards for Hazardous Air Pollutants: Gasoline Dispensing Facilities: <https://www.ecfr.gov/cgi-bin/text-idx?node=sp40.15.63.cccccc>

Appendix B – CAM Plans

Manual Paint System (MPS) Primer - Two-Stage Dry Filtration System (C257) for Control of PM/PM₁₀ Emissions

I. Background

- A. Emissions Unit
MPS Primer Paint Booth (EU57)
- B. Applicable Requirements
567 IAC 23.3(2)"a"
Emission limit: 0.01 grains per dry standard cubic feet PM
Iowa DNR Construction Permits 05-A-161-S7 (AE17), 05-A-162-S7 (AE18)
Emission limits: 1.86 pounds per hour PM₁₀
- C. Control Equipment
Two-stage dry filtration system (C257)

II. Monitoring Approach

The key elements of the monitoring approach are presented in the following table.

CAM Plan for PM/PM ₁₀ from EU57 Prime Paint Booth — Monitoring Approach	
Indicator:	Pressure drop across the dry filtration system.
Monitoring approach used to measure the indicator:	Pressure drop across the dry filtration system is measured with a differential pressure gauge.
Indicator range providing a reasonable assurance of compliance:	During paint booth operation: 0.3 to 2.5 inches H ₂ O An excursion is defined as a pressure drop reading outside of the indicator range shown above. Excursions trigger an inspection and corrective action. An excursion does not necessarily indicate a deviation of violation of applicable permit terms, conditions, and/or requirements.
Specifications for obtaining representative data:	Pressure taps located at the inlet and outlet of the dry filtration system.
Quality assurance and quality control (QA/QC) practices to ensure validity of the monitoring data:	The calibration of the differential pressure gauge is verified a minimum of annually.
Frequency of monitoring:*	Pressure drop is measured continuously.
Data collection procedures:*	The pressure drop is recorded once per day as the compliance record when the booth is in operation.
Data averaging period for determining whether an excursion has occurred:	No averaging is performed

* Pressure drop readings are continuously measured and recorded in the process monitoring system. The process control logic will activate notices and/or alarms for readings that approach either side of the indicator range that will trigger maintenance response to replace filter elements and/or trouble shoot the exhaust system to maintain the pressure drop within the indicator range.

Manual Paint System (MPS) Top Coat - Two-Stage Dry Filtration System (C258) for Control of PM/PM₁₀ Emissions

I. Background

- A. Emissions Unit
MPS Top Coat Paint Booth (EU58)
- B. Applicable Requirements
567 IAC 23.3(2)"a"
Emission limit: 0.01 grains per dry standard cubic feet PM
Iowa DNR Construction Permits 05-A-163-S8 (AE19), 05-A-164-S8 (AE20)
Emission limits: 0.87 pounds per hour PM₁₀
- C. Control Equipment
Two-stage dry filtration system (C158)

II. Monitoring Approach

The key elements of the monitoring approach are presented in the following table.

CAM Plan for PM/PM₁₀ from EU58 Topcoat Paint Booth — Monitoring Approach	
Indicator:	Pressure drop across the dry filtration system.
Monitoring approach used to measure the indicator:	Pressure drop across the dry filtration system is measured with a differential pressure gauge.
Indicator range providing a reasonable assurance of compliance:	During paint booth operation: 0.3 to 2.5 inches H ₂ O An excursion is defined as a pressure drop reading outside of the indicator range shown above. Excursions trigger an inspection and corrective action. An excursion does not necessarily indicate a deviation of violation of applicable permit terms, conditions, and/or requirements.
Specifications for obtaining representative data:	Pressure taps located at the inlet and outlet of the dry filtration system.
Quality assurance and quality control (QA/QC) practices to ensure validity of the monitoring data:	The calibration of the differential pressure gauge is verified a minimum of annually.
Frequency of monitoring:*	Pressure drop is measured continuously.
Data collection procedures:*	The pressure drop is recorded once per day as the compliance record when the booth is in operation.
Data averaging period for determining whether an excursion has occurred:	No averaging is performed

* Pressure drop readings are continuously measured and recorded in the process monitoring system. The process control logic will activate notices and/or alarms for readings that approach either side of the indicator range that will trigger maintenance response to replace filter elements and/or trouble shoot the exhaust system to maintain the pressure drop within the indicator range.

Manual Touch Up Booth (RPS) - Two-Stage Dry Filtration System (C73) for Control of PM/PM₁₀ Emissions

I. Background

- A. Emissions Unit
Manual Paint Booth (EU73)
- B. Applicable Requirements
567 IAC 23.3(2)"a"
Emission limit: 0.01 grains per dry standard cubic feet PM
Iowa DNR Construction Permit 12-A-027-S4 (AE22), 12-A-028-S4 (AE23), 12-A-029-S4 (AE24)
Emission limits: 1.73 pounds per hour PM₁₀
- C. Control Equipment
Two-stage dry filtration system (C73)

II. Monitoring Approach

The key elements of the monitoring approach are presented in the following table.

CAM Plan for PM/PM ₁₀ from EU73 Manual Paint Booth — Monitoring Approach	
Indicator:	Pressure drop across the dry filtration system.
Monitoring approach used to measure the indicator:	Pressure drop across the two-stage dry filtration system is measured with a differential pressure gauge.
Indicator range providing a reasonable assurance of compliance:	During paint booth operation: 0.05 to 1.5 inches H ₂ O An excursion is defined as a pressure drop reading outside of the indicator range shown above. Excursions trigger an inspection and corrective action. An excursion does not necessarily indicate a deviation of violation of applicable permit terms, conditions, and/or requirements.
Specifications for obtaining representative data:	Pressure taps located at the inlet and outlet of the dry filtration system.
Quality assurance and quality control (QA/QC) practices to ensure validity of the monitoring data:	The calibration of the differential pressure gauge is verified a minimum of annually.
Frequency of monitoring:*	Pressure drop is measured continuously.
Data collection procedures:*	The pressure drop is recorded once per day as the compliance record when the booth is in operation.
Data averaging period for determining whether an excursion has occurred:	No averaging is performed

* - Pressure drop readings are continuously measured and recorded in the process monitoring system. The process control logic will activate notices and/or alarms for readings that approach either side of the indicator range that will trigger maintenance response to replace filter elements and/or trouble shoot the exhaust system to maintain the pressure drop within the indicator range.

Robotic Production Booth (RPS) Prime & Topcoat - Two-Stage Dry Filtration System (C74) for Control of PM/PM₁₀ Emissions

I. Background

- A. Emissions Unit
Prime Paint Booth (EU74)
- B. Applicable Requirements
567 IAC 23.3(2)"a"
Emission limit: 0.01 grains per dry standard cubic feet PM
Iowa DNR Construction Permit 12-A-030-S4 (AE25), 12-A-031-S4 (AE26), 12-A-032-S4 (AE27), 12-A-033-S4 (AE28)
Emission limits: 2.54 pounds per hour PM₁₀
- C. Control Equipment
Two-stage dry filtration system (C74)

II. Monitoring Approach

The key elements of the monitoring approach are presented in the following table.

CAM Plan for PM/PM₁₀ from EU74 Robotic Paint Booth — Monitoring Approach	
Indicator:	Pressure drop across the dry filtration system.
Monitoring approach used to measure the indicator:	Pressure drop across the dry filtration system is measured with a differential pressure gauge.
Indicator range providing a reasonable assurance of compliance:	During paint booth operation: 0.05 to 1.5 inches H ₂ O An excursion is defined as a pressure drop reading outside of the indicator range shown above. Excursions trigger an inspection and corrective action. An excursion does not necessarily indicate a deviation of violation of applicable permit terms, conditions, and/or requirements.
Specifications for obtaining representative data:	Pressure taps located at the inlet and outlet of the dry filtration system.
Quality assurance and quality control (QA/QC) practices to ensure validity of the monitoring data:	The calibration of the differential pressure gauge is verified a minimum of annually.
Frequency of monitoring:*	Pressure drop is measured continuously.
Data collection procedures:*	The pressure drop is recorded once per day as the compliance record when the booth is in operation.
Data averaging period for determining whether an excursion has occurred:	No averaging is performed

* - Pressure drop readings are continuously measured and recorded in the process monitoring system. The process control logic will activate notices and/or alarms for readings that approach either side of the indicator range that will trigger maintenance response to replace filter elements and/or trouble shoot the exhaust system to maintain the pressure drop within the indicator range.

Touch Up Booth (Paint Reclaim) - Three-Stage Dry Filtration System (C106) for Control of PM/PM₁₀ Emissions

I. Background

- A. Emissions Unit
Prime Paint Booth (EU82)
- B. Applicable Requirements
567 IAC 23.3(2)"a"
Emission limit: 0.01 grains per dry standard cubic feet PM
Iowa DNR Construction Permit 12-A-075-S3
Emission limits: 3.0 pounds per hour PM & PM₁₀
- C. Control Equipment
Two-stage dry filtration system (C106)

II. Monitoring Approach

The key elements of the monitoring approach are presented in the following table.

CAM Plan for PM/PM ₁₀ from EU74 Robotic Paint Booth — Monitoring Approach	
Indicator:	Pressure drop across the dry filtration system.
Monitoring approach used to measure the indicator:	Pressure drop across the dry filtration system is measured with a differential pressure gauge.
Indicator range providing a reasonable assurance of compliance:	During paint booth operation: 0.2 to 1.5 inches H ₂ O for North Filter Bank 0.2 to 1.5 inches H ₂ O for South Filter Bank An excursion is defined as a pressure drop reading outside of the indicator range shown above. Excursions trigger an inspection and corrective action. An excursion does not necessarily indicate a deviation of violation of applicable permit terms, conditions, and/or requirements.
Specifications for obtaining representative data:	Pressure taps located at the inlet and outlet of the dry filtration system.
Quality assurance and quality control (QA/QC) practices to ensure validity of the monitoring data:	The calibration of the differential pressure gauge is verified a minimum of annually.
Frequency of monitoring:*	Pressure drop is measured continuously.
Data collection procedures:*	The pressure drop is recorded once per day as the compliance record when the booth is in operation.
Data averaging period for determining whether an excursion has occurred:	No averaging is performed

* - Pressure drop readings are continuously measured and recorded in the process monitoring system. The process control logic will activate notices and/or alarms for readings that approach either side of the indicator range that will trigger maintenance response to replace filter elements and/or trouble shoot the exhaust system to maintain the pressure drop within the indicator range.

Appendix C - Executive Order 10 (EO10) Rules Crosswalk.