

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

**Name of Permitted Facility: John Deere Dubuque Works**

**Facility Location: 18600 South John Deere Road  
Dubuque, Iowa 52004**

**Air Quality Operating Permit Number: 01-TV-021R3-M001**

**Expiration Date: March 31, 2027**

**Permit Renewal Application Deadline: September 30, 2026**

**EIQ Number: 92-1315**

**Facility File Number: 31-01-009**

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**Responsible Official**

**Mark A. Dickson**

**General Manager**

**18600 South John Deere Road, Dubuque, IA 52004**

**(563) 589-6213**

**Permit Contact Person for the Facility**

**Dan Mai**

**Environmental Manager**

**18600 South John Deere Road, Dubuque, IA 52004**

**(563) 589-5254**

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

**For the Director of the Department of Natural Resources**

*Marnie Stein*

03/15/2024

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Marnie Stein, Supervisor of Air Operating Permits Section

Date

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**NESHAPS:**

**40 CFR Part 63, Subpart MMMM:** Web Link to National Emissions Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products

**40 CFR Part 63, Subpart P PPPP:** Web link to National Emission Standards for Hazardous Air Pollutants for Engine Test Cells/Standards.

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

**40 CFR Part 63, Subpart DDDDD:** Web Link to National Emissions Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters

**40 CFR Part 63, Subpart DD:** Web Link to National Emissions Standards for Hazardous Air Pollutants for Off-Site Waste Recovery Operations

## Abbreviations

acfm.....	actual cubic feet per minute
CFR.....	Code of Federal Regulation
CE .....	control equipment
CEM.....	continuous emission monitor <sup>09</sup> .
gr./dscf .....	grains per dry standard cubic foot
HC.....	hydrocarbon
HP-hr.....	horsepower hour
IAC.....	Iowa Administrative Code
DNR.....	Department of Natural Resources
kg/l.....	kilograms per liter
Mgal.....	1000 gallons
MVAC.....	motor vehicle air conditioner
NAICS.....	North American Industry Classification System
NSPS.....	new source performance standard
ppmv .....	parts per million by volume
lb./hr.....	pounds per hour
lb./MMBtu .....	pounds per million British thermal units
SCC.....	Source Classification Codes
scfm.....	standard cubic feet per minute
SIC.....	Standard Industrial Classification
TPH.....	tons per hour
TPY.....	tons per year
USEPA.....	United States Environmental Protection Agency

## Pollutants

PM.....	particulate matter
PM <sub>10</sub> .....	particulate matter ten microns or less in diameter
SO <sub>2</sub> .....	sulfur dioxide
NO <sub>x</sub> .....	nitrogen oxides
VOC.....	volatile organic compound
CO.....	carbon monoxide
HAP.....	hazardous air pollutant
NMHC.....	non-methane hydrocarbon

# I. Facility Description and Equipment List

Facility Name: John Deere Dubuque Works

Permit Number: 01-TV-021R3-M001

Facility Description: Manufacture of Construction Machinery (SIC 3531)

## Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
C2-DSP-1	2-DSP	Parts and Vehicle Touchup Paint Booth	88-A-197-S2 <sup>(2)</sup>
C2-DSP-2	2-DSP	Parts and Vehicle Touchup Paint Booth	17-A-234 <sup>(2)</sup>
3-DSP-1	3-DSP	Experimental Parts Touch-up Booth	16-A-246-S1 <sup>(2)</sup>
1-MSP-1	1-MSP	131-W2 Carpenter/Touch-Up Paint Booth	80-A-093-S2 <sup>(2)</sup>
5-PBD-1	5-PBD	186-W3 Crawler Paint Kitchen	03-A-714 <sup>(2)</sup>
6-PBD-1	6-PBD	163-W1 Backhoe Paint Kitchen	03-A-715 <sup>(2)</sup>
7-PBD-1	7-PBD	163-W1 Paint Kitchen 2	05-A-250-S1 <sup>(2)</sup>
8-PBD-1	8-PBD	Crawler Paint Kitchen	05-A-769 <sup>(2)</sup>
17-PSP-1	17-PSP	Crawler Base Coat Paint Booth	97-A-990-S3 <sup>(2)</sup>
17-PSP-2			97-A-991-S3 <sup>(2)</sup>
18-PSP-1	18-PSP	Crawler Top Coat Paint Booth	97-A-992-S3 <sup>(2)</sup>
18-PSP-2			97-A-993-S3 <sup>(2)</sup>
19-PSP-1	19-PSP	163-W1 Backhoe Primer Paint Booth	98-A-081-S3 <sup>(2)</sup>
19-PSP-2			98-A-082-S3 <sup>(2)</sup>
20-PSP-1	20-PSP	163-W1 Backhoe Top Coat Paint Booth	98-A-083-S2 <sup>(2)</sup>
20-PSP-2			98-A-084-S2 <sup>(2)</sup>
22-PSP-1	22-PSP	Backhoe Touch-up Paint Booth	14-A-428-S2 <sup>(2)</sup>
21-PSP-1	21-PSP	Forestry Touch-Up Paint Booth	06-A-621-S2 <sup>(2)</sup>
21-PSP-2		Forestry Touch-Up Paint Booth	06-A-622-S2 <sup>(2)</sup>
10-PDF-1	10-PDF	186-W3 Crawler Paint Curing Oven	97-A-994
10-PDF-2			97-A-995
11-PDF-1	11-PDF	Backhoe Paint Curing Oven	98-A-079-S1
11-PDF-2			98-A-080-S1
1-GAA-1F	1-GAA	Adhesive Assembly	Grandfathered <sup>(2)</sup>
1-GCS-1F	1-GCS	Miscellaneous Solvent Usage	Grandfathered <sup>(2)</sup>
1-GSR-1F	1-GSR	Anti-Rust Spray Application	Grandfathered <sup>(2)</sup>
6-DQE-1	6-DQE	X2 Bay 6 Dyno Engine Exhaust	01-A-913-S4
7-DQE-1	7-DQE	X2 Bay 7 Dyno Engine Exhaust	Exempt <sup>(1)</sup>
8-DQE-1	8-DQE	X2 Bay 8 Dyno Engine Exhaust	09-A-669-S3

<b>Emission Point Number</b>	<b>Emission Unit Number</b>	<b>Emission Unit Description</b>	<b>DNR Construction Permit Number</b>
34-DQE-1	34-DQE	Electrification Lab Engine	09-A-319-S3
1-UUS-1B	1-UUS(2)	#1 Boiler	71-A-089-S4
2-UUS-1B	2-UUS(2)	#2 Boiler	71-A-090-S3
3-UUS-1B	3-UUS(2)	#3 Boiler	12-A-339-S1
2-WBB-1	2-WBB	C-26 Bulk Lime Delivery	91-A-175
3-UUE-1	3-UUE	#5 Standby Generator	94-A-042-S4
4-UUE-1	4-UUE	#6 Standby Generator	94-A-043-S4
5-UUE-1	5-UUE	#7 Standby Generator	94-A-044-S4
6-UUE-1	6-UUE	#8 Standby Generator	94-A-045-S4
7-UUE-1	7-UUE	#9 Standby Generator	94-A-046-S4
8-UUE-1	8-UUE	#10 Standby Generator	94-A-047-S4
1-PBT-1	1-PBT	Bulk Storage Tank (10,000 gal.)	00-A-508
2-PBT-1	2-PBT	Bulk Storage Tank (10,000 gal.)	00-A-509
3-PBT-1	3-PBT	Bulk Storage Tank (10,000 gal.)	00-A-510
4-PBT-1	4-PBT	Bulk Storage Tank (10,000 gal.)	00-A-511
5-PBT-1	5-PBT	Bulk Storage Tank (10,000 gal.)	00-A-512
6-PBT-1	6-PBT	Bulk Storage Tank (10,000 gal.)	00-A-513
7-PBT-1	7-PBT	Bulk Storage Tank (10,000 gal.)	00-A-514
8-PBT-1	8-PBT	Bulk Storage Tank (10,000 gal.)	00-A-515
9-PBT-1	9-PBT	Bulk Storage Tank (10,000 gal.)	00-A-516
10-PBT-1	10-PBT	Bulk Storage Tank (10,000 gal.)	00-A-517
11-PBT-1	11-PBT	Bulk Storage Tank (10,000 gal.)	00-A-518
12-PBT-1	12-PBT	Bulk Storage Tank (10,000 gal.)	00-A-519
13-PBT-1	13-PBT	Bulk Storage Tank (10,000 gal.)	00-A-520
14-PBT-1	14-PBT	Bulk Storage Tank (10,000 gal.)	00-A-521
15-PBT-1	15-PBT	Bulk Storage Tank (10,000 gal.)	00-A-522
16-PBT-1	16-PBT	Bulk Storage Tank (10,000 gal.)	00-A-523
1-UBT-1	1-UBT	G2-Emergency Generator Diesel Tank	01-A-687
1-UBT-2			01-A-688
2-UBT-1	2-UBT	G2-Emergency Generator Diesel Tank	01-A-689
2-UBT-2			01-A-690
1-PWA-1	1-PWA	942-W2 Reclaim Weld Booth	98-A-595
2-PWA-1	2-PWA	155-W5 Reclaim Weld Booth	18-A-142-S1
5-DWA-1	5-DWA	314-1XE Rework Weld Booth	98-A-931
18-UVM-1F	18-UVM	Air Makeup Unit X-21	00-A-817-S1
15-PUG-1	15-PUG	Crawler Boiler	18-A-688-S1
18-PUG-1	18-PUG	Backhoe Pre-Paint Wash Boiler	20-A-214-S1
1-GWA-1F	1-GWA	BHL Mainframe Welding	Fugitive
2-GWA-1F	2-GWA	BHL Component Welding	Fugitive
3-GWA-1F	3-GWA	Crawler Fabrication Welding	Fugitive

<b>Emission Point Number</b>	<b>Emission Unit Number</b>	<b>Emission Unit Description</b>	<b>DNR Construction Permit Number</b>
4-GWA-1F	4-GWA	SSL Boom Welding	Fugitive
5-GWA-1F	5-GWA	SSL Mainframe Welding	Fugitive
6-GWA-1F	6-GWA	Service Parts Welding	Fugitive
7-GWA-1F	7-GWA	Crawler Construction Frame Welding	Fugitive
8-GWA-1F	8-GWA	Crawler and Forestry Large Frame Welding	Fugitive
7-PCW-1	7-PCW	BHL Paint Pretreatment Washer 1&2	Exempt
7-PCW-2			Exempt
8-PCW-1	8-PCW	CWL Paint Pretreatment Washer 1&2	Exempt
8-PCW-2			Exempt
9-PCW-IF	9-PCW	Forestry Pre-paint Wash Bay	Fugitive
5-UUS-1	5-UUS	Tank Farm Boiler	Exempt
1-UUE-1	1-UUE	Powerhouse Emergency Generator	Exempt <sup>(1)</sup>
2-UUW-1	2-UUW	#8 Fire Well	Exempt <sup>(1)</sup>
1-UUW-1	1-UUW	#6 Fire Well	Exempt <sup>(1)</sup>
9-UUE-1	9-UUE	Computer Room Backup Generator	Exempt <sup>(1)</sup>
10-UUE-1	10-UUE	Sanitary Wastewater Treatment Back-up Generator	Exempt <sup>(1)</sup>

<sup>(1)</sup> This equipment meets construction permit exemption 567 IAC 22.1(2)"r", an internal combustion engine with a brake horsepower rating of less than 400 measured at the shaft.

<sup>(2)</sup> Included in the 175 tpy VOC plant-wide paint, solvent, and adhesive.

## Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
1-GHG	Factory Gas Usage (Space heaters and water heaters, all individually under 10 MMBtu/hr)
1-MBT	W2 Gasoline Tank (1000 gal.)
1-MXF	Tool Room Flame Cut-14283 (2 Torches)
1-PWT	288-H 4 Solder and Brazing Tables
1-MUG	Maintenance Wash Heater
1-MCW	Bldg. F Maintenance Wash Booth
1-UVH	A Bldg Boiler 1
2-UVH	A Bldg Boiler 2
1-WTW	Industrial Waste Water Treatment
2-DBT	X-18 Diesel Fuel Tank
2-WTC	55 Gallon Solvent Distillation Unit - North
3-WTC	55 Gallon Solvent Distillation Unit -South
3-DCW	X-Shop Wash Bay
3-DUG	X-Shop Wash Heater
4-DUG	X-18 Large Wash Heater
9-PBD	Forestry Paint Kitchen
1-PUG	Crawler Paint Wash Heater
2-PUG	Crawler Paint Wash Heater
3-PUG	BHL Paint Wash Heater
4-PUG	BHL Paint Washer Heater
5-PUG	Forestry Paint System Wash Booth
6-PUG	Forestry Pre-paint Wash Booth Heater
7-PUG	Backhoe Wash Heater
8-PUG	Skid Steer Wash Heater
10-PUG	1050 Crawler Wash Heater
11-PUG	SS Production Wash Heater
12-PUG	Crawler Loader Wash Heater
13-PUG	1050 Crawler Final Wash Heater
14-PUG	Crawler Wash Heater
16-PUG	Forestry Pre-Assembly Wash Heater
17-PUG	850 Crawler Wash Heater
19-PUG	Backhoe Assembly Wash Heater
20-PUG	Forestry Pre-Paint Wash Bay Heater



### Insignificant Activities Equipment List (Small Unit Exemption)<sup>(3)</sup>

Insignificant Emission Unit Number	Insignificant Emission Unit Description
1-GMW	Facility Wide CNC Machining
1-PCA	Brake Bonding Shot Blast M12212
12-PCA	Heat Treat Shot Blast 15158
14-PCA	Plate Cleaning Shot Blast – 16258
16-PCA	Plate Cleaning Shot Blast – 16445
17-PCA	Plate Cleaning Shot Blast – 16444
18-PCA	Skid Steer Shot Blast – M16766
6-PXF	Flame Cut-17032
6-PXP	HI-Def Plasma 137635
2-PCW	Skid Steer Wash Bay
6-PCW	Backhoe Wash Bay
10-PCW	1050 Crawler Wash Bay
11-PCW	Skid Steer Production Wash System
12-PCW	Crawler Loader Wash Bay
13-PCW	1050 Crawler Final Wash Booth
14-PCW	Crawler Wash Booth
16-PCW	Forest Pre-Assembly Wash Booth
17-PCW	850 Crawler Wash Booth
19-PCW	Backhoe Assembly Wash Booth
20-PCW	SSL Electric Pressure Wash System
21-PCW	C-27 Pressure Washing Operations
1-PXL	Laser Cut 131772
2-PXL	Laser Cut 154047
7-PXL	Laser Cut 16590
8-PXL	Laser Cut 200358
9-PXL	Laser Cut 131416
11-PXL	Laser Cut 154046
12-PXL	Laser Cut 131790
17-PXL	Laser Cut 131764
18-PXL	Laser Cut 131766
19-PXL	Laser Cut 131834
20-PXL	Laser Cut 137201
21-PXL	Laser Cut 137203
22-PXL	Laser Cut 138934
23-PXL	Laser Cut 139236
24-PXL	Laser Cut 141007
25-PXL	Laser Cut 143007
26-PXL	Laser Cut 170139

<b>Insignificant Emission Unit Number</b>	<b>Insignificant Emission Unit Description</b>
27-PXL	Laser Cut 182600
28-PXL	Laser Cut 182601
29-PXL	Laser Cut 190222
30-PXL	Laser Cut 192740
31-PXL	Laser Cut 196240
32-PXL	Laser Cut 198897
2-DCA	X-18 Dustless Blast
2-DXP	Experimental Plasma Cutter
2-GNA	3D Printing
3-PWA	W2 Skid Steer Reclaim Weld Booth
4-DCW	X-18 Large Wash Bay
5-PXP	Hi-Def Plasma 139230

<sup>(3)</sup> Emission Units qualify for Small Unit Exemption under 567 IAC 22.1(2)"w". Records shall be kept in accordance with 567 IAC 22.1(2)"w"(3).

## II. Plant-Wide Conditions

Facility Name: John Deere Dubuque Works

Permit Number: 01-TV-021R3-M001

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

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### Permit Duration

The term of this permit is: Five (5) years

Commencing on: April 1, 2022

Ending on: March 31, 2027

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

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### 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 (SO<sub>2</sub>): 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 - No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved public roads, without taking reasonable precautions to prevent particulate matter in quantities sufficient to create a nuisance, as defined in Iowa Code section 657.1, from becoming airborne. All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not limited to, the following procedures.

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

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

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### **Plant-wide VOC Limit Surface Coating, Adhesive and Solvent Operations**

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 175.0 tons/yr

Authority for Requirement: See Emission Points identified as <sup>(2)</sup> in Equipment List.

### **Plant-Wide Operational Limits, Requirements, and Recordkeeping**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five (5) years and shall be available for inspection by the Department.*

- A. Total VOC emissions from all surface coating, adhesive and solvent sources at this facility shall not exceed 175 tons per daily rolling 365-day period. All VOC-containing materials used at the facility for surface coating, adhesive and solvent sources shall be included in the emissions calculations.
- B. The permittee (or owner or operator) shall maintain the following daily records:
  - i. The identification of each VOC-containing surface coating, adhesive and solvent material used at the facility.

- ii. The amount, in gallons, of each VOC-containing surface coating, adhesive and solvent material used at the facility. For the purposes of calculating emissions, all VOC may be considered emitted on the day the materials are delivered to the facility or to the production line.
- C. The permittee shall maintain the following monthly records:
  - i. The identification of each VOC-containing surface coating, adhesive and solvent material used at the facility.
  - ii. The amount, in gallons, of each VOC-containing surface coating, adhesive and solvent material used at the facility. For the purposes of calculating emissions, all VOC may be considered emitted on the day the materials are delivered to the facility or to the production line.
  - iii. The amount of VOC emissions from all surface coating, adhesive and solvent sources, in tons.
  - iv. The 12-month rolling total of the amount of VOC emissions from all surface coating, adhesive and solvent sources, in tons.
- D. If the 12-month rolling total of the VOC emissions exceeds 140.0 tons, the permittee shall immediately begin keeping the following daily records:
  - i. The amount of VOC emissions from all surface coating, adhesive and solvent sources, in tons.
  - ii. The 365-day rolling total of the amount of VOC emissions from all surface coating, adhesive and solvent sources, in tons. Daily calculations for VOC emissions shall continue until the 365-day rolling total of the amount of VOC emissions from all surface coating, adhesive and solvent sources drops below 140.0 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of VOC emissions will cease per condition D above. If the emissions once again exceed 140.0 tons, daily recordkeeping will be required per condition D above.
- E. The owner or operator may take credit for any waste VOC shipped off-site. The owner or operator shall record the amount of waste shipped off-site from surface coating, adhesive and solvent operations, and also analyze the VOC content of the waste once every calendar year quarter. The sample analyzed shall be taken as a representative sample (as defined in 40 CFR §260.10) of the waste sent off-site for that quarter and shall be taken as representative until the subsequent quarter's analysis is received. The credit (calculated from the most current analysis and the amount shipped off-site) may be subtracted from the VOC rolling totals as of the date the waste is shipped off-site.

Authority for Requirement: See Emission Points identified as <sup>(2)</sup> in Equipment List.

### III. Emission Point-Specific Conditions

Facility Name: John Deere Dubuque Works  
Permit Number: 01-TV-021R3-M001

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#### Emission Point ID Numbers: C2-DSP-1, C2-DSP-2, 3-DSP-1

##### Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
C2-DSP-1	2-DSP	X-Shop Large Paint Booth	CE 10: Dry Filter	Paint	6.4 gal/hr (total)	88-A-197-S2
C2-DSP-2						17-A-234
3-DSP-1	3-DSP	X-Shop Small Paint Booth	CE 13: Dry Filter	Paint	3.2 gal/hr	16-A-246-S1

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#### Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 % <sup>(1)</sup>

Authority for Requirement: DNR Construction Permits 88-A-197-S2, 17-A-234, 16-A-246-S1  
567 IAC 23.3(2)"d"

<sup>(1)</sup> 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): 0.01 gr/dscf

Authority for Requirement: DNR Construction Permits 88-A-197-S2, 17-A-234, 16-A-246-S1  
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 5.0 tons/yr <sup>(2)</sup>

Authority for Requirement: DNR Construction Permits 88-A-197-S2, 17-A-234, 16-A-246-S1

<sup>(2)</sup> Limit for all surface coating, adhesive and solvent operations at EU 2-DSP and EU 3-DSP.

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 175.0 tons/yr <sup>(3)</sup>

Authority for Requirement: DNR Construction Permits 88-A-197-S2, 17-A-234, 16-A-246-S1

<sup>(3)</sup> Limit for all surface coating, adhesive and solvent operations at this facility.

Pollutant: Total HAP

Emission Limit(s): 2.6 lb/gal solids

Authority for Requirement: DNR Construction Permits 88-A-197-S2, 17-A-234, 16-A-246-S1  
40 CFR 63 Subpart M  
567 IAC 23.1(4) "cm"

**Operational Limits, Requirements, and Recordkeeping**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five (5) years and shall be available for inspection by the Department.*

- A. Operate and maintain the control equipment (CE 10-EFM and CE 13-EFM) according to the manufacturer's specifications.
- B. Total VOC emissions from EU 2-DSP and 3-DSP shall not exceed 5.0 tons per daily rolling 365-day period. All VOC-containing materials used in EU 2-DSP and 3-DSP shall be included in the emissions calculations.
- C. The permittee (or owner or operator) shall maintain the following daily records:
  - i. The identification of each VOC-containing material used in EU 2-DSP and 3-DSP.
  - ii. The amount, in gallons, of each VOC-containing material used in EU 2-DSP and 3-DSP. For the purposes of calculating emissions, all VOC may be considered emitted on the day the materials are delivered to the facility or to the production line.
- D. The permittee shall maintain the following monthly records:
  - i. The identification of each VOC-containing material used in EU 2-DSP and 3-DSP.
  - ii. The amount, in gallons, of each VOC-containing material used in EU 2-DSP and 3-DSP. For the purposes of calculating emissions, all VOC may be considered emitted on the day the materials are delivered to the facility or to the production line.
  - iii. The amount of VOC emissions from EU 2-DSP and 3-DSP, in tons.
  - iv. The 12-month rolling total of the amount of VOC emissions from EU 2-DSP and 3-DSP, in tons.
- E. If the 12-month rolling total of the VOC emissions from EU 2-DSP and 3-DSP exceeds 4.0 tons, the permittee shall immediately begin keeping the following daily records:
  - i. The amount of VOC emissions from EU 2-DSP and 3-DSP, in tons.
  - ii. The 365-day rolling total of the amount of VOC emissions from EU 2-DSP and 3-DSP, in tons. Daily calculations for VOC emissions shall continue until the 365-day rolling total of the amount of VOC emissions from EU 2-DSP and 3-DSP drops below 4.0 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily

calculation of VOC emissions will cease per condition E above. If the emissions once again exceed 4.0 tons, daily recordkeeping will be required per condition E above.

- F. The owner or operator shall limit organic HAP emission to the atmosphere as per the emission requirements of 40 CFR §63.3890.
- G. The owner or operator shall comply with the compliance procedures and monitoring requirements of 40 CFR §63.3900.
  - i. Submit the notifications for NESHAP MMMM as required by 40 CFR 63.3910.
  - ii. Submit the reports for NESHAP MMMM as required by 40 CFR 63.3920.
  - iii. Maintain records for NESHAP MMMM as required by 40 CFR 63.3930.

Authority for Requirement: DNR Construction Permits 88-A-197-S2, 17-A-234, 16-A-246-S1  
 40 CFR Subpart MMMM  
 567 IAC 23.1(4)"cm"

**National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability**

This source is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart MMMM – Surface Coating of Miscellaneous Metal Parts and Products (40 CFR §63.3880 through 40 CFR §63.3981) and to NESHAP Subpart A - General Provisions (40 CFR §63.1 through 40 CFR §63.15).

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

**Emission Point Characteristics**

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

EP ID	Stack Height (feet, from ground)	Discharge Style	Stack Outlet Dimension (inches)	Exhaust Temperature (°F)	Exhaust Flowrate (scfm)
EP C2-DSP-1	44	Vertical unobstructed	42	70	32,000
EP C2-DSP-2	44	Vertical unobstructed	42	70	32,000
EP 3-DSP-1	46	Vertical unobstructed	30	70	19,200

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.

Authority for Requirement: DNR Construction Permits 88-A-197-S2, 17-A-234, 16-A-246-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

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

**Weekly**

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

**Recordkeeping and Reporting**

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

**Quality Control**

- The filter equipment will be operated and maintained according to the manufacturer’s recommendations.

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: 1-MSP-1**

### Associated Equipment

Associated Emission Unit ID Number: 1-MSP  
Emissions Control Equipment ID Number: 6-EFM  
Emissions Control Equipment Description: Dry Filter

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Emission Unit vented through this Emission Point: 1-MSP  
Emission Unit Description: 131-W2 Carpenter Spray Paint Booth  
Raw Material/Fuel: Paint  
Rated Capacity: 12.6 gal/hr

### Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 % <sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 80-A-093-S2  
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: DNR Construction Permit 80-A-093-S2  
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 10.0 tons/yr

Authority for Requirement: DNR Construction Permit 80-A-093-S2

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 175.0 tons/yr <sup>(2)</sup>

Authority for Requirement: DNR Construction Permit 80-A-093-S2

<sup>(2)</sup> Limit for all surface coating, adhesive and solvent operations at this facility.

Pollutant: Total HAP

Emission Limit(s): 2.6 lb/gal solids

Authority for Requirement: DNR Construction Permit 80-A-093-S2  
40 CFR 63 Subpart M  
567 IAC 23.1(4) "cm"

### **Operational Limits, Requirements, and Recordkeeping**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five (5) years and shall be available for inspection by the Department.*

- A. Operate and maintain the control equipment (CE 6-EFM) according to the manufacturer's specifications.
- B. Total VOC emissions from EU 1-MSP shall not exceed 10.0 tons per daily rolling 365-day period. All VOC-containing materials used in EU 1-MSP shall be included in the emissions calculations.
- C. The permittee (or owner or operator) shall maintain the following daily records:
  - i. The identification of each VOC-containing material used in EU 1-MSP.
  - ii. The amount, in gallons, of each VOC-containing material used in EU 1-MSP. For the purposes of calculating emissions, all VOC may be considered emitted on the day the materials are delivered to the facility or to the production line.
- D. The permittee shall maintain the following monthly records:
  - i. The identification of each VOC-containing material used in EU 1-MSP.
  - ii. The amount, in gallons, of each VOC-containing material used in EU 1-MSP. For the purposes of calculating emissions, all VOC may be considered emitted on the day the materials are delivered to the facility or to the production line.
  - iii. The amount of VOC emissions from EU 1-MSP, in tons.
  - iv. The 12-month rolling total of the amount of VOC emissions from EU 1-MSP, in tons.
- E. If the 12-month rolling total of the VOC emissions from EU 1-MSP exceeds 8.0 tons, the permittee shall immediately begin keeping the following daily records:
  - i. The amount of VOC emissions from EU 1-MSP, in tons.
  - ii. The 365-day rolling total of the amount of VOC emissions from EU 1-MSP, in tons. Daily calculations for VOC emissions shall continue until the 365-day rolling total of the amount of VOC emissions from EU 1-MSP drops below 8.0 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of VOC emissions will cease per condition E above. If the emissions once again exceed 8.0 tons, daily recordkeeping will be required per condition E above.
- F. The owner or operator shall limit organic HAP emission to the atmosphere as per the emission requirements of 40 CFR §63.3890.
- G. The owner or operator shall comply with the compliance procedures and monitoring requirements of 40 CFR §63.3900.
  - i. Submit the notifications for NESHAP MMMM as required by 40 CFR 63.3910.
  - ii. Submit the reports for NESHAP MMMM as required by 40 CFR 63.3920.

iii. Maintain records for NESHAP MMMM as required by 40 CFR 63.3930.

Authority for Requirement: DNR Construction Permit 80-A-093-S2  
40 CFR Subpart MMMM  
567 IAC 23.1(4)"cm"

**National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability**

This source is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart MMMM – Surface Coating of Miscellaneous Metal Parts and Products (40 CFR §63.3880 through 40 CFR §63.3981) and to NESHAP Subpart A - General Provisions (40 CFR §63.1 through 40 CFR §63.15).

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

**Emission Point Characteristics**

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

Stack Height (feet): 50  
Stack Diameter (inches): 42  
Stack Exhaust Flow Rate (scfm): 24,800  
Stack Temperature (°F): Ambient  
Discharge Style: Vertical unobstructed  
Authority for Requirement: DNR Construction Permit 80-A-093-S2

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

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

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

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

### **Weekly**

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

### **Recordkeeping and Reporting**

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

### **Quality Control**

- The filter equipment will be operated and maintained according to the manufacturer's recommendations.

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: 5-PBD-1**

### Associated Equipment

Associated Emission Unit ID Numbers: 5-PBD

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Emission Unit vented through this Emission Point: 5-PBD  
Emission Unit Description: 186-W3 Crawler Paint Kitchen  
Raw Material/Fuel: Paint  
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): 175.0 tons/yr  
Authority for Requirement: See plant-wide

#### Operational Limits, Requirements, and Recordkeeping

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five (5) years and shall be available for inspection by the Department.*

### **National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability**

This source is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart M – Surface Coating of Miscellaneous Metal Parts and Products (40 CFR §63.3880 through 40 CFR §63.3981) and to NESHAP Subpart A - General Provisions (40 CFR §63.1 through 40 CFR §63.15).

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

**Emission Point Characteristics**

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

Stack Height (feet): 34

Stack Opening (inches): 22 x 22

Stack Exhaust Flow Rate (scfm): 6000

Stack Temperature (°F): Ambient

Discharge Style: Vertical obstructed

Authority for Requirement: DNR Construction Permit 03-A-714

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 22.108(3)

## **Emission Point ID Number: 6-PBD-1**

### Associated Equipment

Associated Emission Unit ID Numbers: 6-PBD

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Emission Unit vented through this Emission Point: 6-PBD  
Emission Unit Description: 163-W1 Backhoe Paint Kitchen 1  
Raw Material/Fuel: Paint  
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): 175.0 tons/yr  
Authority for Requirement: See plant-wide

#### **Operational Limits, Requirements, and Recordkeeping**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five (5) years and shall be available for inspection by the Department.*

#### **National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability**

This source is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart M – Surface Coating of Miscellaneous Metal Parts and Products (40 CFR §63.3880 through 40 CFR §63.3981) and to NESHAP Subpart A - General Provisions (40 CFR §63.1 through 40 CFR §63.15).

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



**Emission Point Characteristics**

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

Stack Height (feet): 34  
Stack Opening (inches): 22 x 22  
Stack Exhaust Flow Rate (scfm): 6000  
Stack Temperature (°F): Ambient  
Discharge Style: Vertical Obstructed  
Authority for Requirement: DNR Construction Permit 03-A-715

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 22.108(3)

## **Emission Point ID Number: 7-PBD-1**

### Associated Equipment

Associated Emission Unit ID Numbers: 7-PBD

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Emission Unit vented through this Emission Point: 7-PBD

Emission Unit Description: 163-W1 Paint Kitchen 2

Raw Material/Fuel: Paint

Rated Capacity: N/A

### Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 % <sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 05-A-250-S1  
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 05-A-250-S1  
567 IAC 23.3(2)"a"

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 175.0 tons/yr

Authority for Requirement: See plant-wide

**Operational Limits, Requirements, and Recordkeeping**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five (5) years and shall be available for inspection by the Department.*

**National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability**

This source is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart M – Surface Coating of Miscellaneous Metal Parts and Products (40 CFR §63.3880 through 40 CFR §63.3981) and to NESHAP Subpart A - General Provisions (40 CFR §63.1 through 40 CFR §63.15).

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

**Emission Point Characteristics**

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

Stack Height (feet): 34  
Stack Opening (inches): 22 x 22  
Stack Exhaust Flow Rate (scfm): 6000  
Stack Temperature (°F): 70  
Discharge Style: Vertical Unobstructed  
Authority for Requirement: DNR Construction Permit 05-A-250-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that 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 22.108(3)

## **Emission Point ID Number: 8-PBD-1**

### Associated Equipment

Associated Emission Unit ID Numbers: 8-PBD

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Emission Unit vented through this Emission Point: 8-PBD

Emission Unit Description: Crawler Paint Kitchen

Raw Material/Fuel: Paint

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): 175.0 tons/yr

Authority for Requirement: See plant-wide

#### Operational Limits, Requirements, and Recordkeeping

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five (5) years and shall be available for inspection by the Department.*

#### **National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability**

This source is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart M – Surface Coating of Miscellaneous Metal Parts and Products (40 CFR §63.3880 through 40 CFR §63.3981) and to NESHAP Subpart A - General Provisions (40 CFR §63.1 through 40 CFR §63.15).

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

**Emission Point Characteristics**

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

- Stack Height (feet): 34
- Stack Opening (inches): 22 x 22
- Stack Exhaust Flow Rate (scfm): 6000
- Stack Temperature (°F): Ambient
- Discharge Style: Vertical Obstructed
- Authority for Requirement: DNR Construction Permit 05-A-769

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 22.108(3)

## Emission Point ID Numbers: Crawler Paint Booths

### Associated Equipment

Associated Emission Unit ID Numbers: 17-PSP, 18-PSP

**Table: Crawler Paint Booths**

Emission Point	Emission Unit	Emission Unit Description	Raw Material	Maximum Design Capacity	Control Equipment & ID	DNR Construction Permits
17-PSP-1	17-PSP	Crawler Primer Paint Booth	Paint	2 Spray guns per Emission Point, each gun capable of 7.1 gallons/hour	Dry Filters 14-EFM	97-A-990-S3
17-PSP-2						97-A-991-S3
18-PSP-1	18-PSP	Crawler Top Coat Paint Booth	Paint	2 Spray guns per Emission Point, each gun capable of 7.1 gallons/hour	Dry Filters 15-EFM	97-A-992-S3
18-PSP-2						97-A-993-S3

### Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 % <sup>(1)</sup>

Authority for Requirement: DNR Construction Permits: 97-A-990-S3, 97-A-991-S3  
97-A-992-S3, 97-A-993-S3

567 IAC 23.3(2)"d"

<sup>(1)</sup> 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

Emission Limit(s): 0.01 gr/dscf, 0.82 lb/hr

Authority for Requirement: DNR Construction Permits: 97-A-990-S3, 97-A-991-S3  
97-A-992-S3, 97-A-993-S3

567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 72.5 tons/yr <sup>(2)</sup>

Authority for Requirement: DNR Construction Permits: 97-A-990-S3, 97-A-991-S3  
97-A-992-S3, 97-A-993-S3

<sup>(2)</sup>Total allowed for the following emission units: Crawler Base Coat Spray Booth (EU 17-PSP) and Crawler Top Coat Spray Booth (EU 18-PSP). See Operating Requirements and Associated Recordkeeping, shown below.

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 175.0 tons/yr <sup>(3)</sup>

Authority for Requirement: DNR Construction Permits: 97-A-990-S3, 97-A-991-S3  
97-A-992-S3, 97-A-993-S3

<sup>(3)</sup> Requested limit for all surface coating, adhesive and solvent operations at this facility.

Pollutant: Total HAP

Emission Limit(s): 2.6 lb organic HAP/gallon coating solids

Authority for Requirement: DNR Construction permits: 97-A-990-S3, 97-A-991-S3  
97-A-992-S3, 97-A-993-S3

40 CFR Part 63 Subpart M  
567 IAC 23.1(4)"cm"

### **Operational Limits, Requirements, and Recordkeeping**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five (5) years and shall be available for inspection by the Department.*

- A. Operate and maintain the control equipment (CE 14-EFM, and CE 15-EFM) according to the manufacturer's specifications.
- B. Total VOC emissions from EU 17-PSP and 18-PSP shall not exceed 72.5 tons per daily rolling 365-day period. All VOC-containing materials used in EU 17-PSP and 18-PSP shall be included in the emissions calculations.
- C. The permittee (or owner or operator) shall maintain the following daily records:
  - i. The identification of each VOC-containing material used in EU 17-PSP and 18-PSP.
  - ii. The amount, in gallons, of each VOC-containing material used in EU 17-PSP and 18-PSP. For the purposes of calculating emissions, all VOC may be considered emitted on the day the materials are delivered to the facility or to the production line.
- D. The permittee shall maintain the following monthly records:
  - i. The identification of each VOC-containing material used in EU 17-PSP and 18-PSP.
  - ii. The amount, in gallons, of each VOC-containing material used in EU 17-PSP and 18-PSP. For the purposes of calculating emissions, all VOC may be

considered emitted on the day the materials are delivered to the facility or to the production line.

- iii. The amount of VOC emissions from EU 17-PSP and 18-PSP, in tons.
  - iv. The 12-month rolling total of the amount of VOC emissions from EU 17-PSP and 18-PSP, in tons.
- E. If the 12-month rolling total of the VOC emissions from EU 17-PSP and 18-PSP exceeds 58 tons, the permittee shall immediately begin keeping the following daily records:
- i. The amount of VOC emissions from EU 17-PSP and 18-PSP, in tons.
  - ii. The 365-day rolling total of the amount of VOC emissions from EU 17-PSP and 18-PSP, in tons. Daily calculations for VOC emissions shall continue until the 365-day rolling total of the amount of VOC emissions from EU 17-PSP and 18-PSP drops below 58 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of VOC emissions will cease per condition E above. If the emissions once again exceed 58 tons, daily recordkeeping will be required per condition E above.
- F. The owner or operator shall limit organic HAP emission to the atmosphere as per the emission requirements of 40 CFR §63.3890.
- G. The owner or operator shall comply with the compliance procedures and monitoring requirements of 40 CFR §63.3900.
- i. Submit the notifications for NESHAP MMMM as required by 40 CFR 63.3910.
  - ii. Submit the reports for NESHAP MMMM as required by 40 CFR 63.3920.
  - iii. Maintain records for NESHAP MMMM as required by 40 CFR 63.3930.

Authority for Requirement: DNR Construction Permits: 97-A-990-S3, 97-A-991-S3  
97-A-992-S3, 97-A-993-S3

40 CFR Subpart MMMM  
567 IAC 23.1(4)"cm"

### **National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability**

This source is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart MMMM – Surface Coating of Miscellaneous Metal Parts and Products (40 CFR §63.3880 through 40 CFR §63.3981) and to NESHAP Subpart A - General Provisions (40 CFR §63.1 through 40 CFR §63.15).

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



**Emission Point Characteristics**

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

Stack Height (ft., from the ground): 56.5 feet

Stack Opening (inches, dia.): 48 inches

Exhaust Flow Rate (scfm): 26,800

Exhaust Temperature (° F): 70

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permits: 97-A-990-S3, 97-A-991-S3  
97-A-992-S3, 97-A-993-S3

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that 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 22.108(3)

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

### **Weekly**

- Inspect the pressure differential of the spray booth filters. The pressure differential is an indicator for the operating efficiency of the collection system.
- Maintain a written record of the observation and any action resulting from the inspection.

### **Recordkeeping and Reporting**

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

### **Quality Control**

- The filter equipment will be operated within the range of normal operating pressure and maintained according to the manufacturer's recommendations.

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Numbers: Backhoe Paint Booths

### Associated Equipment

Associated Emission Unit ID Numbers: 19-PSP, 20-PSP, 22-PSP

**Table: Backhoe Paint Booths**

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity (gal/hr)	Construction Permits
19-PSP-1	19-PSP	Backhoe Primer Paint Booth	Dry Filter CE 16 EFM	Paint	10	98-A-081-S3
19-PSP-2					10	98-A-082-S3
20-PSP-1	20-PSP	Backhoe Topcoat Paint Booth	Dry Filter CE 17 EFM	Paint	10	98-A-083-S2
20-PSP-2					10	98-A-084-S2
22-PSP-1	22-PSP	Backhoe Touchup Paint Booth	Dry Filter CE 18 EFM	Paint	10	14-A-428-S2

### Applicable Requirements

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

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

**Table: Backhoe Paint Booths – Emission Limits**

Emission Point	Opacity <sup>(1)</sup> 567 IAC 23.3(2)"d"	PM <sub>2.5</sub> Limit (lb/hr)	PM <sub>10</sub> Limit (lb/hr)	PM Limit (gr./dscf) 567 IAC 23.4(13)	PM Limit (lb/hr)	Authority for Requirement (Construction Permit Number)
19-PSP-1	40%	0.48	0.66	0.01	1.04	98-A-081-S3
19-PSP-2	40%					98-A-082-S3
20-PSP-1	40%					98-A-083-S2
20-PSP-2	40%					98-A-084-S2
22-PSP-1	40%	0.96	1.32		2.08	14-A-428-S2

<sup>(1)</sup>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: Volatile Organic Compounds (VOC)

Emission Limit(s): 89.25 TPY <sup>(2)</sup>

Authority for Requirement: DNR Construction Permits: 98-A-081-S3, 98-A-082-S3  
98-A-083-S2, 98-A-084-S2  
14-A-428-S2

<sup>(2)</sup> Requested limit for all surface coating, adhesive and solvent operations at EU 19-PSP, EU 20-PSP and EU 22-PSP. Limit requested to keep project 14-206 minor for PSD.

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 175.0 tons/yr <sup>(3)</sup>

Authority for Requirement: DNR Construction Permits: 98-A-081-S3, 98-A-082-S3  
98-A-083-S2, 98-A-084-S2  
14-A-428-S2

<sup>(3)</sup> Requested limit for all surface coating, adhesive and solvent operations at this facility.

Pollutant: Total HAP

Emission Limit(s): 2.6 lb organic HAP/gallon coating solids

Authority for Requirement: DNR Construction Permits 98-A-081-S3, 98-A-082-S3  
98-A-083-S2, 98-A-084-S2  
14-A-428-S2

40 CFR Subpart M  
567 IAC 23.1(4)"cm"

### **Operational Limits, Requirements, and Recordkeeping**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five (5) years and shall be available for inspection by the Department.*

- A. Operate and maintain the control equipment (CE 16-EFM, CE 17-EFM and CE 18-EFM) according to the manufacturer's specifications.
- B. Total VOC emissions from EU 19-PSP, 20-PSP and 22-PSP shall not exceed 89.25 tons per daily rolling 365-day period. All VOC-containing materials used in EU 19-PSP, 20-PSP and 22-PSP shall be included in the emissions calculations.
- C. The permittee (or owner or operator) shall maintain the following daily records:
  - i. The identification of each VOC-containing material used in EU 19-PSP, 20-PSP and 22-PSP.
  - ii. The amount, in gallons, of each VOC-containing material used in EU 19-PSP, 20-PSP and 22-PSP. For the purposes of calculating emissions, all VOC may be considered emitted on the day the materials are delivered to the facility or to the production line.

- D. The permittee shall maintain the following monthly records:
  - i. The identification of each VOC-containing material used in EU 19-PSP, 20-PSP and 22-PSP.
  - ii. The amount, in gallons, of each VOC-containing material used in EU 19-PSP, 20-PSP and 22-PSP. For the purposes of calculating emissions, all VOC may be considered emitted on the day the materials are delivered to the facility or to the production line.
  - iii. The amount of VOC emissions from EU 19-PSP, 20-PSP and 22-PSP, in tons.
  - iv. The 12-month rolling total of the amount of VOC emissions from EU 19-PSP, 20-PSP and 22-PSP, in tons.
  
- E. If the 12-month rolling total of the VOC emissions from EU 19-PSP, 20-PSP and 22-PSP exceeds 71.4 tons, the permittee shall immediately begin keeping the following daily records:
  - i. The amount of VOC emissions from EU 19-PSP, 20-PSP and 22-PSP, in tons.
  - ii. The 365-day rolling total of the amount of VOC emissions from EU 19-PSP, 20-PSP and 22-PSP, in tons. Daily calculations for VOC emissions shall continue until the 365-day rolling total of the amount of VOC emissions from EU 19-PSP, 20-PSP and 22-PSP drops below 71.4 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of VOC emissions will cease per condition E above. If the emissions once again exceed 71.4 tons, daily recordkeeping will be required per condition E above.
  
- F. The owner or operator shall limit organic HAP emission to the atmosphere as per the emission requirements of 40 CFR §63.3890.
  
- G. The owner or operator shall comply with the compliance procedures and monitoring requirements of 40 CFR §63.3900.
  - i. Submit the notifications for NESHAP MMMM as required by 40 CFR 63.3910.
  - ii. Submit the reports for NESHAP MMMM as required by 40 CFR 63.3920.
  - iii. Maintain records for NESHAP MMMM as required by 40 CFR 63.3930.

Authority for Requirement: DNR Construction Permits: 98-A-081-S3, 98-A-082-S3  
 98-A-083-S2, 98-A-084-S2  
 14-A-428-S2

40 CFR Subpart MMMM  
 567 IAC 23.1(4)"cm"

**National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability**

These sources are subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart M – Surface Coating of Miscellaneous Metal Parts and Products (40 CFR §63.3880 through 40 CFR §63.3981) and to NESHAP Subpart A - General Provisions (40 CFR §63.1 through 40 CFR §63.15).

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

**Emission Point Characteristics**

*These emission points shall conform to the specifications listed below.*

Emission Point Number	Stack Height (ft, from the ground)	Stack Diameter (inches)	Exhaust Flow Rate (scfm)	Stack Temperature (°F)	Discharge Style	Authority for Requirement
19-PSP-1	56	48	26,775	70	Vertical Unobstructed	98-A-081-S3
19-PSP-2						98-A-082-S3
20-PSP-1						98-A-083-S2
20-PSP-2						98-A-084-S2
22-PSP-1	60	56	25,250			14-A-428-S2

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

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

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

Authority for Requirement: 567 IAC 22.108(3)

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

### **Weekly**

- Inspect the pressure differential of the spray booth filters. The pressure differential is an indicator for the operating efficiency of the collection system.
- Maintain a written record of the observation and any action resulting from the inspection.

### **Recordkeeping and Reporting**

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

### **Quality Control**

The filter equipment will be operated within the range of normal operating pressure and maintained according to the manufacturer's recommendations.

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Numbers: Forestry Paint Booth

### Associated Equipment

Associated Emission Unit ID Number: See Table Forestry Paint Booth

Emissions Control Equipment ID Number: CE 12-EFM

Emissions Control Equipment Description: Dry Filter

### Table Forestry Touch-up Paint Booth

Emission Point	Emission Unit	Emission Unit Description	Raw Material /Fuel	Rated Capacity (gal/hr)	Construction Permit
21-PSP-1	21-PSP	Forestry Touch-up Paint Booth	Paint	7.03	06-A-621-S2
21-PSP-2					06-A-622-S2

### Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 % <sup>(1)</sup>

Authority for Requirement: DNR Construction Permits: 06-A-621-S2, 06-A-622-S2  
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/scf, 0.86 lb/hr

Authority for Requirement: DNR Construction Permits: 06-A-621-S2, 06-A-622-S2  
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 25.0 tons/yr<sup>(2)</sup>

Authority for Requirement: DNR Construction Permits: 06-A-621-S2, 06-A-622-S2

<sup>(2)</sup> Limit for all surface coating, adhesive, and solvent operations at EU 21-PSP

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 175.0 tons/yr<sup>(3)</sup>

Authority for Requirement: DNR Construction Permits: 06-A-621-S2, 06-A-622-S2

<sup>(3)</sup> Requested limit for all surface coating, adhesive and solvent operations at this facility.



Pollutant: total HAP

Emission Limit(s): 2.6 lb organic HAP/gallon coating solids

Authority for Requirement: DNR Construction Permits: 06-A-621-S2, 06-A-622-S2

40 CFR Subpart MMMM

567 IAC 23.1(4)"cm"

**Operational Limits, Requirements, and Recordkeeping**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five (5) years and shall be available for inspection by the Department.*

- A. Operate and maintain the control equipment (CE 12-EFM) according to the manufacturer's specifications.
- B. Total VOC emissions from EU 21-PSP shall not exceed 25.0 tons per daily rolling 365-day period. All VOC-containing materials used in EU 21-PSP shall be included in the emissions calculations.
- C. The permittee (or owner or operator) shall maintain the following daily records:
  - i. The identification of each VOC-containing material used in EU 21-PSP.
  - ii. The amount, in gallons, of each VOC-containing material used in EU 21-PSP. For the purposes of calculating emissions, all VOC may be considered emitted on the day the materials are delivered to the facility or to the production line.
- D. The permittee shall maintain the following monthly records:
  - i. The identification of each VOC-containing material used in EU 21-PSP.
  - ii. The amount, in gallons, of each VOC-containing material used in EU 21-PSP. For the purposes of calculating emissions, all VOC may be considered emitted on the day the materials are delivered to the facility or to the production line.
  - iii. The amount of VOC emissions from EU 21-PSP, in tons.
  - iv. The 12-month rolling total of the amount of VOC emissions from EU 21-PSP, in tons.
- E. If the 12-month rolling total of the VOC emissions from EU 21-PSP exceeds 20 tons, the permittee shall immediately begin keeping the following daily records:
  - i. The amount of VOC emissions from EU 21-PSP, in tons.
  - ii. The 365-day rolling total of the amount of VOC emissions from EU 21-PSP, in tons. Daily calculations for VOC emissions shall continue until the 365-day rolling total of the amount of VOC emissions from EU 21-PSP drops below 20 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of VOC emissions will cease per condition 5 above. If the emissions once again exceed 20 tons, daily recordkeeping will be required per condition 5 above.
- F. The owner or operator shall limit organic HAP emission to the atmosphere as per the emission requirements of 40 CFR §63.3890.

G. The owner or operator shall comply with the compliance procedures and monitoring requirements of 40 CFR §63.3900.

- i. Submit the notifications for NESHAP MMMM as required by 40 CFR 63.3910.
- ii. Submit the reports for NESHAP MMMM as required by 40 CFR 63.3920.
- iii. Maintain records for NESHAP MMMM as required by 40 CFR 63.3930.

Authority for Requirement: DNR Construction Permits: 06-A-621-S2, 06-A-622-S2  
40 CFR Subpart MMMM  
567 IAC 23.1(4)"cm"

### **National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability**

This source is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart MMMM – Surface Coating of Miscellaneous Metal Parts and Products (40 CFR §63.3880 through 40 CFR §63.3981) and to NESHAP Subpart A - General Provisions (40 CFR §63.1 through 40 CFR §63.15).

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

### **Emission Point Characteristics**

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

Stack Height (ft., from the ground): 41

Stack Opening (inches, dia.): 42

Exhaust Flow Rate (scfm): 20,000

Exhaust Temperature (°F): 72

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permits: 06-A-621-S2, 06-A-622-S2

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

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

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

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

**Weekly**

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

**Recordkeeping and Reporting**

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

**Quality Control**

- The filter equipment will be operated and maintained according to the manufacturer’s recommendations.

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: Crawler Paint Curing Oven

### Associated Equipment

Associated Emission Unit ID Numbers: 10-PDF

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**Table: Crawler Curing Ovens**

Emission Point	Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
10-PDF-1	10-PDF	186-W3 Crawler Paint Curing Oven Exhaust	Natural Gas/ Propane	4 MMBtu/hr	97-A-994
10-PDF-2					97-A-995

### **Applicable Requirements**

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

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

Pollutant: Opacity

Emission Limit(s): 20 %

Authority for Requirement: DNR Construction Permits: 97-A-994 & 97-A-995  
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permits: 97-A-994 & 97-A-995  
567 IAC 23.3(2)"a"

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.21 tons/yr.

Authority for Requirement: DNR Construction Permits: 97-A-994 & 97-A-995

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 500 ppmv

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

**Operational Limits, Requirements, and Recordkeeping**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five (5) years and shall be available for inspection by the Department.*

A. This source is limited to the firing of natural gas and propane only.

B. The owner/operator shall keep records of the type of fuel fired in this oven.

Authority for Requirement: DNR Construction Permits: 97-A-994 & 97-A-995

**Emission Point Characteristics**

*These emission points shall conform to the conditions listed in the table below.*

<b>Emission Point #</b>	<b>Stack Height (feet)</b>	<b>Stack Opening (inches)</b>	<b>Stack Exhaust Flow Rate (acfm)</b>	<b>Stack Temperature (°F)</b>	<b>Authority for Requirement</b>
10-PDF-1	41.5	30	9,745	200	97-A-994
10-PDF-2	41.5	42	21,700	200	97-A-995

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 22.108(3)

## Emission Point ID Number: Backhoe Paint Curing Oven

### Associated Equipment

Associated Emission Unit ID Numbers: 11-PDF

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**Table: Backhoe Paint Curing Oven**

Emission Point	Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permits
11-PDF-1	11-PDF	163-W1 Backhoe Paint Curing Oven Exhaust	Natural Gas or Propane	4 MMBtu/hr	98-A-079-S1
11-PDF-2					98-A-080-S1

### Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% <sup>(1)</sup>

Authority for Requirement: DNR Construction Permits 98-A-079-S1 & 98-A-080-S1  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of (25%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permits 98-A-079-S1 & 98-A-080-S1  
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 500 ppmv

Authority for Requirement: DNR Construction Permits 98-A-079-S1 & 98-A-080-S1  
567 IAC 23.3(3)"e"

**Operational Limits, Requirements, and Recordkeeping**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five (5) years and shall be available for inspection by the Department.*

- A. This emission unit is limited to the firing of natural gas or propane only.
- B. Record the type of fuel fired in this oven

Authority for Requirement: DNR Construction Permit 98-A-079-S1 & 98-A-080-S1

**Emission Point Characteristics**

*These emission points shall conform to the conditions listed in the table below.*

<b>Emission Point</b>	<b>Stack Height (feet)</b>	<b>Stack Opening (inches)</b>	<b>Stack Exhaust Flow Rate (acfm)</b>	<b>Stack Temperature (°F)</b>	<b>Discharge Style</b>	<b>Authority For Requirement</b>
11-PDF-1	41	30	9,745	170	Vertical, unobstructed	98-A-079-S1
11-PDF-2		42	21,700	Ambient		98-A-080-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 22.108(3)

## **Emission Point ID Number: 1-GAA-1F**

### Associated Equipment

Associated Emission Unit ID Number: 1-GAA

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Emission Unit vented through this Emission Point: 1-GAA

Emission Unit Description: Adhesive Assembly

Raw Material/Fuel: Adhesive

Rated Capacity: 0.264 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

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: 567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 175.0 tons/yr

Authority for Requirement: See plant-wide

#### Operating Requirements and Associated Record Keeping

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

#### **National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability**

This source is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart M – Surface Coating of Miscellaneous Metal Parts and Products (40 CFR §63.3880 through 40 CFR §63.3981) and to NESHAP Subpart A - General Provisions (40 CFR §63.1 through 40 CFR §63.15).

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

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

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

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 1-GCS-1F**

Associated Equipment

Associated Emission Unit ID Number: 1-GCS

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Emission Unit vented through this Emission Point: 1-GCS  
Emission Unit Description: Miscellaneous Solvent Usage  
Raw Material/Fuel: Solvents  
Rated Capacity: 3.19 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: Volatile Organic Compounds (VOC)  
Emission Limit(s): 175.0 tons/yr  
Authority for Requirement: See Plant Wide Conditions – Emission Limits Section

**Operational Limits, Requirements, and Recordkeeping**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five (5) years and shall be available for inspection by the Department.*

**National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability**

This source is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart M – Surface Coating of Miscellaneous Metal Parts and Products (40 CFR §63.3880 through 40 CFR §63.3981) and to NESHAP Subpart A - General Provisions (40 CFR §63.1 through 40 CFR §63.15).

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

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

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

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 1-GSR-1F**

Associated Equipment

Associated Emission Unit ID Number: 1-GSR

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Emission Unit vented through this Emission Point: 1-GSR  
Emission Unit Description: Anti-Rust Spray Application  
Raw Material/Fuel: Rust Protective Material  
Rated Capacity: 0.9 lb/hr

**Applicable Requirements**

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

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

Pollutant: Volatile Organic Compounds (VOC)  
Emission Limit(s): 175.0 tons/yr  
Authority for Requirement: See plant-wide

**Operational Limits, Requirements, and Recordkeeping**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five (5) years and shall be available for inspection by the Department.*

**National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability**

This source is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart M – Surface Coating of Miscellaneous Metal Parts and Products (40 CFR §63.3880 through 40 CFR §63.3981) and to NESHAP Subpart A - General Provisions (40 CFR §63.1 through 40 CFR §63.15).

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

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

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

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: Dyno Engine Test Cells

### Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Raw Material	Maximum Design Capacity	DNR Construction Permit #
6-DQE-1	6-DQE	X2 Bay 6 Dyno Engine Test Cell	Diesel fuels, Jet A, JP-8	800 HP dyno	01-A-913-S4
				800 HP engine	
8-DQE-1	8-DQE	X2 Bay 8 Dyno Engine Test Cell		800 HP dyno	09-A-669-S3
				800 HP engine	

### Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 % <sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 01-A-913-S4 & 09-A-669-S3  
567 IAC 23.3(2)"d"

<sup>(1)</sup> 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 the exceedance continues after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>2.5</sub>

Emission Limit(s): 0.66 lb/hr<sup>(2)</sup>

Authority for Requirement: DNR Construction Permits: 01-A-913-S4 & 09-A-669-S3

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.66 lb/hr<sup>(2)</sup>

Authority for Requirement: DNR Construction Permits: 01-A-913-S4 & 09-A-669-S3

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf, 0.66 lb/hr<sup>(2)</sup>

Authority for Requirement: DNR Construction Permits: 01-A-913-S4 & 09-A-669-S3  
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 2.5 lb/MMBtu

Authority for Requirement: DNR Construction Permits: 01-A-913-S4 & 09-A-669-S3  
567 IAC 23.3(3)"b"(2)

Pollutant: Nitrogen Oxides (NO<sub>x</sub>)  
Emission Limit(s): 10.57 lb/hr<sup>(2)</sup>  
Authority for Requirement: DNR Construction Permits: 01-A-913-S4 & 09-A-669-S3

Pollutant: Nitrogen Oxides (NO<sub>x</sub>)  
Emission Limit(s): 35.0 ton/yr<sup>(2), (3)</sup>  
Authority for Requirement: DNR Construction Permits: 01-A-913-S4 & 09-A-669-S3  
<sup>(3)</sup> Limit on the total emissions from EP 6-DQE-1 and 8-DQE-1

Pollutant: Volatile Organic Compounds (VOC)  
Emission Limit(s): 2.2 lb/hr<sup>(2)</sup>  
Authority for Requirement: DNR Construction Permits: 01-A-913-S4 & 09-A-669-S3

Pollutant: Carbon Monoxide (CO)  
Emission Limit(s): 5.76 lb/hr<sup>(2)</sup>  
Authority for Requirement: DNR Construction Permits: 01-A-913-S4 & 09-A-669-S3

<sup>(2)</sup> Emission limit is the total emission limit for each test cell's exhaust stack and the engine's open crankcase vent.

### **Operational Limits, Requirements, and Recordkeeping**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five (5) years and shall be available for inspection by the Department.*

- A. The fuels burned in these emissions units (EU 6-DQE and EU 8-DQE) are limited to the following: No. 2 diesel fuel, No. 1 diesel fuel, blends of No. 1 and No. 2 diesel fuels, Jet A (hydrodesulfurized kerosene), diesel blends that contain up to 20% biodiesel (e.g. B20), and JP-8 (Jet Propellant 8). Prior to burning other fuels in these emissions units, the owner or operator shall apply to modify this permit.
- B. For each test cell (EU 6-DQE and EU 8-DQE), the rated capacity of the dynamometer is 800 horsepower. The owner or operator may replace the existing dynamometer with a dynamometer or dynamometers in tandem without modifying this construction permit provided that the total maximum capacity of the dynamometers does not exceed 800 horsepower in each test cell. Prior to replacing the dynamometer with a dynamometer of a capacity greater than 800 horsepower, the owner or operator shall apply to modify this permit.
- C. For each test cell (EU 6-DQE and EU 8-DQE), the maximum capacity of the engine to be tested is 800 horsepower. Prior to operating an engine in the test cell with a capacity greater than 800 horsepower, the owner or operator shall apply to modify this permit.
  - i. The owner or operator shall maintain the following daily records for each test cell:
    - a. The identification and the size of each engine tested (horsepower); and
    - b. The amount of time each engine operated (hours).

- D. With the exception of JP-8 fuel, the maximum sulfur content of any fuel burned in an engine in a test cell (EU 6-DQE and EU 8-DQE) shall not exceed 500 ppm (0.05%) by weight. The maximum sulfur content of the JP-8 fuel burned in an engine in a test cell shall not exceed 4000 ppm (0.4%) by weight.
- i. The owner or operator shall maintain a record on the identification and the sulfur content of each fuel burned in an engine in the test cell (EU 6-DQE and EU 8-DQE). The analysis of the sulfur content of the fuel may be obtained from the fuel supplier or may be performed by the owner or operator. The sulfur analysis does not have to be for each shipment of oil received, but shall be documented by receipts from the fuel supplier, a statement from the fuel supplier on the specification of the sulfur content of the purchased fuel oil, or other supporting documentation.
- E. The engines tested in these emissions units (EU 6-DQE and EU 8-DQE) shall be engines capable of meeting European Stage II, Stage III, Stage IV, Stage V, EPA Tier 2, Tier 3, Interim Tier 4 or final Tier 4 standards for non-road engines. The owner or operator may test Tier 4 engines that are not equipped with after treatment devices provided those engines can comply with EPA Tier 2 or Tier 3 emission standards and the hourly limits specified in Emission Limits Section above.
- F. The owner or operator shall maintain the following monthly records:
- i. The amount of NO<sub>x</sub> emitted from test cell EU 6-DQE (pounds or tons);
  - ii. The amount of NO<sub>x</sub> emitted from test cell EU 8-DQE (pounds or tons);
  - iii. The total amount of NO<sub>x</sub> emitted from test cells EU 6-DQE and EU 8-DQE (pounds or tons); and
  - iv. the rolling, 12-month total of the amount of NO<sub>x</sub> emitted from test cells EU 6-DQE and EU 8-DQE combined (tons).

The monthly NO<sub>x</sub> emission rate from each test cell shall be calculated by the following equation:

$$\text{NO}_x = \sum_{i=1}^n (\text{HP}_i) (H_i)(\text{EL}_i)(1.25)(1/454) (1 / 1.34)$$

Where:

NO<sub>x</sub> = Total NO<sub>x</sub> monthly emission rate, pounds

HP<sub>i</sub> = Horsepower of engine, i,

H<sub>i</sub> = hours that engine, i, operated

EL<sub>i</sub> = NO<sub>x</sub> emission limit for European Stage II, Stage III, Stage IV, Stage V, EPA Tier 2, Tier 3, Interim Tier 4 or final Tier 4 standards (grams/kw-hr) for the engine or engine family being tested.

1.25 = not to exceed (NTE) factor



454 converts grams to pounds

1.34 = converts horsepower to kilowatts

To convert the monthly NOx emission rate from pounds to tons, divide by 2000.

- G. If the 12-month rolling total of NOx emissions from test cells (EU 6-DQE and EU 8-DQE) combined exceeds 28.0 tons, the owner or operator shall immediately begin keeping the following daily records:
- i. The amount of NOx emissions from each test cell (EU 6-DQE and EU 8-DQE) (pounds); and
  - ii. The 365-day rolling total of the amount of NOx emissions from test cells (EU 6-DQE and EU 8-DQE) combined (tons).

Daily calculation of NOx emissions shall continue until the 365-day rolling total of emissions from test cells (EU 6-DQE and EU 8-DQE) combined drops below 28.0 tons for the remainder of the current calendar month plus one additional calendar month. At that time, the rolling daily calculation of NOx emissions may cease and the owner or operator may return to the monthly recordkeeping required by Condition F above. If the NOx emissions ever again exceed 28.0 tons, the daily record keeping as required by Condition G above shall be implemented.

Authority for Requirement: DNR Construction Permits: 01-A-913-S4 & 09-A-669-S3

**Emission Point Characteristics**

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

<b>EP ID</b>	<b>Stack Height, (feet)</b>	<b>Discharge Style</b>	<b>Stack Opening (inches)</b>	<b>Stack Temperature (°F)</b>	<b>Exhaust Flowrate (scfm)</b>
6-DQE-1 <sup>(1)</sup>	27 feet	Vertical unobstructed	12 inches	1,000	2,000
8-DQE-1 <sup>(1)</sup>	26 feet	Vertical Unobstructed	10 inches	420	710

<sup>(1)</sup>Engines with open crankcases are allowed to exhaust the crankcase into the building.

Authority for Requirement: DNR Construction Permits: 01-A-913-S4 & 09-A-669-S3

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that 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 22.108(3)

## **Emission Point ID Number: 7-DQE-1**

### Associated Equipment

Associated Emission Unit ID Numbers: 7-DQE

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### Emission Unit Description

Emission Unit vented through this Emission Point: 7-DQE  
Emission Unit Description: X2 Bay 7 Dyno Engine Exhaust  
Raw Material/Fuel: Diesel Fuel  
Rated Capacity: 20 gallons/hr

### 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 (SO<sub>2</sub>)  
Emission Limit(s): 2.5 lb/MMBtu  
Authority for Requirement: 567 IAC 23.3(3)"b"(2)

#### **Operational Limits, Requirements, and Recordkeeping**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five (5) years and shall be available for inspection by the Department.*

Process throughput:

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

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

Reporting & Recordkeeping:

1. The facility shall monitor the percent of sulfur by weight in the fuel oil as delivered. The documentation may be vendor supplied or facility generated.

Authority for Requirement: 567 IAC 22.108(3)

- Records shall be kept at the facility describing the specific construction permit exemption claimed for these sources and a description of the associated equipment, specifically the size of the engine being tested.

Authority for Requirement: 567 IAC 22.1(2)

**Emission Point Characteristics**

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

Stack Height (feet): 25

Stack Diameter (inches): 6

Stack Exhaust Flow Rate (acfm): 1710

Stack Temperature (°F): 420

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit      Exempt

The engine is equipped with an open crankcase vent that exhausts inside the building.

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: 34-DQE-1**

### Associated Equipment

Associated Emission Unit ID Number: 34-DQE

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### Emission Unit Description

Emission Unit vented through this Emission Point: 34-DQE

Emission Unit Description: Electrification Lab Engine

Raw Material/Fuel: Diesel Fuel

Rated Capacity: Maximum 500 horsepower

### 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 % <sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 09-A-319-S3  
567 IAC 23.3(2)"d"

<sup>(1)</sup> 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 the exceedance continues after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.41 lb/hr

Authority for Requirement: DNR Construction Permit 09-A-319-S3

Pollutant: Nitrogen Oxides (NO<sub>x</sub>)

Emission Limit(s): 4.1 lb/hr

Authority for Requirement: DNR Construction Permit 09-A-319-S3

**Operational Limits, Requirements, and Recordkeeping**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five (5) years and shall be available for inspection by the Department.*

- A. In accordance with §60.4207(b), the diesel fuel oil burned in this engine shall meet the following specifications from 40 CFR 80.510(b) for nonroad diesel fuel:

<b>Parameter</b>	<b>Limit</b>
Sulfur (S) content	15 ppm (0.0015%) by weight
Minimum cetane index <b>or</b> Maximum aromatic content	40 35% (by volume)

The owner or operator of the engine shall comply with these requirements listed above by one of the following methods:

- i. Have the fuel supplier certify that the fuel delivered meets the definition of non-road diesel fuel as defined in the 40 CFR 80.510(b)
  - ii. Obtain a fuel analysis from the supplier showing the sulfur content and cetane index or aromatic content of the fuel delivered; or
  - iii. Perform an analysis of the fuel to determine the sulfur content and cetane index or aromatic content of the fuel received
  
- B. In accordance with §60.4211(a), this engine shall be operated and maintained in accordance with the manufacturer’s emission-related written instructions. The owner or operator may only change emission-related engine settings that are permitted by the manufacturer. Per §60.4211(g), if the engine is not maintained in accordance with manufacturer’s emission-related written instructions or if the engine’s emission-related settings are changed, a compliance demonstration may be required.
  
- C. The owner or operator shall maintain a copy of the Certification of Conformity for the engine (34-DQE) to document compliance with NSPS Subpart IIII.

D. In accordance with §60.4211(c), the engine must be certified by its manufacturer to comply with the emissions standards for non-emergency engines from §60.4204 (b) and §60.4201 (a). The engine is a 2009 model year engine. The emission standards that the engine must be certified by the manufacturer to meet are:

<b>Pollutant</b>	<b>Emission Standard</b>	<b>Basis</b>
Particulate Matter (PM)	0.20 grams/kW-hr	§ 89.112 Table 1
NMHC <sup>1</sup> + NOx	4.0 grams/kW-hr	§ 89.112 Table 1
Carbon Monoxide (CO)	3.5 grams/kW-hr	§ 89.112 Table 1
Opacity – acceleration mode	20%	§ 89.113 (a)(1)
Opacity – lugging mode	15%	§ 89.113 (a)(2)
Opacity – peaks in acceleration or lugging modes	50%	§ 89.113 (a)(3)

E. In accordance with §60.4211(c), the owner or operator must comply with the required NSPS emissions standards by purchasing an engine certified by its manufacturer to meet the applicable emission standards for the same model year and engine power. The engine must be installed and configured to the manufacturer’s specifications. Provided these requirements are satisfied, no further demonstration of compliance with the emission standards from §60.4204 (b) and §60.4201 (a) is required. However, if the engine is not installed, configured, operated, and maintained according to the manufacturer’s emission-related written instructions, a compliance demonstration is required in accordance with §60.4211(g).

Authority for Requirement: DNR Construction Permit 09-A-319-S3  
 40 CFR 60 Subpart IIII  
 567 IAC 23.1(2)"yyy"

**NESHAP and NSPS**

The engine is a new reciprocating internal combustion engine located at a major source of HAP. In accordance with §63.6590(c)(7), the engine must comply with the requirements of Subpart ZZZZ by meeting the requirements of NSPS subpart IIII. No further requirements apply to this engine under Subpart ZZZZ.

Authority for Requirement: 40 CFR 63 Subpart ZZZZ  
 567 IAC 23.1(4)"cz"  
 40 CFR 60 Subpart IIII  
 567 IAC 23.1(2)"yyy"

**Emission Point Characteristics**

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

Stack Height (feet): 38  
Stack Diameter (inches): 12  
Stack Exhaust Flow Rate (scfm): 1,500  
Stack Temperature (°F): 820  
Discharge Style: Vertical Unobstructed  
Authority for Requirement: DNR Construction Permit 09-A-319-S3

The engine is equipped with an open crankcase vent that exhausts inside the building.

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 22.108(3)



## Emission Point ID Number: Boilers

### Associated Equipment

Emission Point	Emission Unit	EU Description	Control Equipment Number	Rated Capacity (MMBtu/hr)	Construction Permit Number
1-UUS-1B	1-UUS(2)	#1 Boiler	1-EMC	99	71-A-089-S4
2-UUS-1B	2-UUS(2)	#2 Boiler	2-EMC	99	71-A-090-S3
3-UUS-1B	3-UUS(2)	#3 Boiler	3-EMC	94	12-A-339-S1

Control Equipment: Multiclones

Raw Material/Fuel: Natural Gas

### Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% <sup>(1)</sup>

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

DNR Construction Permits 71-A-089-S4, 71-A-090-S3  
12-A-339-S1

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

Pollutant: Particulate Matter

Emission Limit(s): 0.6 lb/MMBtu, 1.0 lb/hour

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

DNR Construction Permits 71-A-089-S4, 71-A-090-S3  
12-A-339-S1

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 500 ppmv

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

DNR Construction Permits 71-A-089-S4, 71-A-090-S3  
12-A-339-S1

Pollutant: Nitrogen Oxides (NOx)

Emission Limit(s): 29.4 Tons/yr<sup>(2)</sup>

Authority for Requirement: DNR Construction Permits 71-A-089-S4, 71-A-090-S3  
12-A-339-S1

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 24.7 Tons/yr<sup>(2)</sup>

Authority for Requirement: DNR Construction Permits 71-A-089-S4, 71-A-090-S3  
12-A-339-S1

<sup>(2)</sup> Emission limit on the combined emissions from Emission Points 1-UUS-1B, 2-UUS-1B, 3-UUS-1B

### **Operational Limits, Requirements, and Recordkeeping**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five (5) years and shall be available for inspection by the Department.*

- A. These units shall be fired on natural gas only.
- B. The total combined heat input of fuel fired in #1 Boiler, #2 Boiler and #3 Boiler shall not exceed 500,000 MMBtu per 12-month rolling period.
  - i. Record the total combined heat input of fuel fired in #1 Boiler, #2 Boiler and #3 Boiler. Calculate and record monthly and 12-month rolling totals.
- C. The owner or operator is not required to operate or maintain the pollution control efficiency of the multiclones CE 1-EMC, CE 2-EMC and CE 3-EMC.

Authority for Requirement: DNR Construction Permits 71-A-089-S4, 71-A-090-S3  
12-A-339-S1

### **National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability**

These boilers are subject to the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters 40 CFR Part 63, Subpart DDDDD

Authority for Requirement: 40 CFR Part 63 Subpart DDDDD

**Emission Point Characteristics**

*These emission points shall conform to the specifications listed below.*

<b>Emission Point Number</b>	<b>Stack Height (feet)</b>	<b>Stack Diameter (inches)</b>	<b>Exhaust Flow Rate (scfm)</b>	<b>Stack Temperature (°F)</b>	<b>Discharge Style</b>	<b>Authority for Requirement</b>
1-UUS-1B	69.5	58	23,577	365	Vertical Unobstructed	71-A-089-S4
2-UUS-1B	69.5	58	20,558	365	Vertical Unobstructed	71-A-090-S3
3-UUS-1B	69.5	58	21,235	456	Vertical Unobstructed	12-A-339-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 22.108(3)

## **Emission Point ID Number: 2-WBB-1**

### Associated Equipment

Associated Emission Unit ID Number: 2-WBB  
Emissions Control Equipment ID Number: 16-EFF  
Emissions Control Equipment Description: Baghouse

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Emission Unit vented through this Emission Point: 2-WBB  
Emission Unit Description: C-26 Bulk Lime Delivery  
Raw Material/Fuel: Lime  
Rated Capacity: 40 Ton/Hour

### Applicable Requirements

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

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

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

Pollutant: Particulate Matter  
Emission Limit(s): 0.1 gr/dscf, 0.68 lb./hr, and 3.0 tons/yr.  
Authority for Requirement: DNR Construction Permit 91-A-175  
567 IAC 23.3(2)"a"

#### **Emission Point Characteristics**

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

Stack Exhaust Flow Rate (cfm): 797  
Authority for Requirement: DNR Construction Permit 91-A-175

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 22.108(3)

## Emission Point ID Numbers: Standby Generators

### Associated Equipment

Associated Emission Unit ID Numbers: 3-UUE, 4-UUE, 5-UUE, 6-UUE, 7-UUE, 8-UUE

**Table: Standby Generators**

Emission Point	Emission Unit	Emission Unit Description	Control Equipment Number	DNR Construction Permits
3-UUE-1	3-UUE	#5 Standby Generator	3-EBC	94-A-042-S4
4-UUE-1	4-UUE	#6 Standby Generator	4-EBC	94-A-043-S4
5-UUE-1	5-UUE	#7 Standby Generator	5-EBC	94-A-044-S4
6-UUE-1	6-UUE	#8 Standby Generator	6-EBC	94-A-045-S4
7-UUE-1	7-UUE	#9 Standby Generator	7-EBC	94-A-046-S4
8-UUE-1	8-UUE	#10 Standby Generator	8-EBC	94-A-047-S4

Control Equipment: Diesel Oxidation Catalyst System

Raw Material/Fuel: Diesel

Rated Capacity: 2000 bhp (each)

### Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 % <sup>(1)</sup>

Authority for Requirement: DNR Construction Permits: 94-A-042-S4, 94-A-043-S4  
94-A-044-S4, 94-A-045-S4  
94-A-046-S4, 94-A-047-S4

567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of 20% will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>  
Emission Limit(s): 1.80 lb/hr  
Authority for Requirement: DNR Construction Permits: 94-A-042-S4, 94-A-043-S4  
94-A-044-S4, 94-A-045-S4  
94-A-046-S4, 94-A-047-S4

Pollutant: Particulate Matter  
Emission Limit(s): 2.11 lb/hr, 0.1 gr/dscf  
Authority for Requirement: DNR Construction Permits: 94-A-042-S4, 94-A-043-S4  
94-A-044-S4, 94-A-045-S4  
94-A-046-S4, 94-A-047-S4

567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)  
Emission Limit(s): 0.02 lb/hr, 2.5 lb/MMBtu  
Authority for Requirement: DNR Construction Permits: 94-A-042-S4, 94-A-043-S4  
94-A-044-S4, 94-A-045-S4  
94-A-046-S4, 94-A-047-S4

567 IAC 23.3(3)"b"

Pollutant: Nitrogen Oxides (NO<sub>x</sub>)  
Emission Limit(s): 48.94 lb/hr, 38.91 tons/yr <sup>(2)</sup>  
Authority for Requirement: DNR Construction Permits: 94-A-042-S4, 94-A-043-S4  
94-A-044-S4, 94-A-045-S4  
94-A-046-S4, 94-A-047-S4

<sup>(2)</sup> Emission limit for generators #5- #10 combined

Pollutant: Volatile Organic Compounds (VOC)  
Emission Limit(s): 1.41 lb/hr  
Authority for Requirement: DNR Construction Permits: 94-A-042-S4, 94-A-043-S4  
94-A-044-S4, 94-A-045-S4  
94-A-046-S4, 94-A-047-S4

Pollutant: Carbon Monoxide (CO)  
Emission Limit(s): 3.30 lb/hr, 70% reduction or 23 ppmvd@ 15% O<sub>2</sub>  
Authority for Requirement: DNR Construction Permits: 94-A-042-S4, 94-A-043-S4  
94-A-044-S4, 94-A-045-S4  
94-A-046-S4, 94-A-047-S4  
567 IAC 23.1(4)"cz"

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### **Operational Limits, Requirements, and Recordkeeping**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five (5) years and shall be available for inspection by the Department.*

- A. The owner or operator shall not operate Generators #5 (3-UUE), #6 (4-UUE), #7 (5-UUE), #8 (6-UUE), #9 (7-UUE), and #10 (8-UUE) more than 1,590 hours per rolling twelve-month period, combined.
  - i. The owner or operator shall maintain the following monthly records for Generators #5 (3-UUE), #6 (4-UUE), #7 (5-UUE), #8 (6-UUE), #9 (7-UUE), and #10 (8-UUE)
    - a. the number of hours that each engine operated;
    - b. the rolling 12-month total amount of the number of hours that each engine operated;
    - c. the total number of hours that the engines operated, combined; and
    - d. the rolling 12-month total amount of the number of hours that the engines operated, combined.
- B. For EU 3-UUE, EU 4-UUE, EU 5-UUE, EU 6-UUE, EU 7-UUE, EU 8-UUE, each engine is limited to burning diesel fuel oil that meets the requirements of Condition C below.
- C. For EU 3-UUE, EU 4-UUE, EU 5-UUE, EU 6-UUE, EU 7-UUE, EU 8-UUE, in accordance with §63.6604(a), the diesel fuel oil burned in each engine shall meet the following specifications from 40 CFR 80.510(b) for nonroad diesel fuel:
  - i. a maximum sulfur content of 15 ppm (0.0015%) by weight; and
  - ii. a minimum cetane index of 40 or a maximum aromatic content of 35 percent by volume.
- D. For EU 3-UUE, EU 4-UUE, EU 5-UUE, EU 6-UUE, EU 7-UUE, EU 8-UUE, the owner or operator of each engine shall comply with the requirements of Condition D listed above by one of the following methods:
  - i. have the fuel supplier certify that the fuel delivered meets the definition of non-road diesel fuel as defined in 40 CFR 80.510(b);
  - ii. obtain a fuel analysis from the supplier showing the sulfur content and cetane index or aromatic content of the fuel delivered; or
  - iii. perform an analysis of the fuel to determine the sulfur content and cetane index or aromatic content of the fuel received.
- E. For EU 3-UUE, EU 4-UUE, EU 5-UUE, EU 6-UUE, EU 7-UUE, EU 8-UUE, in accordance with §63.6625(g)(1) each engine's crankcase is required to be equipped with a closed crankcase ventilation system that prevents crankcase emissions from being emitted to the atmosphere.
- F. The owner or operator must operate and maintain a continuous temperature monitoring device on the inlet of each catalytic oxidizer (CE 3-EBC, CE 4-EBC, CE 5-EBC, CE 6-EBC, CE 7-EBC, CE 8-EBC) that meets the requirements of §63.6625(b). The owner or operator shall maintain the temperature of the stationary RICE exhaust so that the catalyst



inlet temperature is greater than or equal to 450 °F and less than or equal to 1350 °F, based on a 4-hour rolling average.

- i. The owner or operator shall maintain a record of the inlet temperature to each catalytic oxidizer (CE 3-EBC, CE 4-EBC, CE 5-EBC, CE 6-EBC, CE 7-EBC, CE 8-EBC). The data shall be reduced to 4-hour rolling averages for each control system.
- G. In accordance with Table 2b to Subpart ZZZZ of Part 63, the owner or operator shall maintain each catalyst (CE 3-EBC, CE 4-EBC, CE 5-EBC, CE 6-EBC, CE 7-EBC, CE 8-EBC), so that the pressure drop across it does not change by more than 2 inches of water column from the pressure drop that was measured during the initial performance test. The average pressure drop measured during the initial performance test:

Engine Description	Control Equipment ID	Pressure drop – inches, water column	Date of initial performance test
Generator #5	CE 3-EBC	1.33 inches, w.c.	11/29/12
Generator #6	CE 4-EBC	1.50 inches, w.c.	11/29/12
Generator #7	CE 5-EBC	1.50 inches, w.c.	11/28/12
Generator #8	CE 6-EBC	1.53 inches, w.c.	11/28/12
Generator #9	CE 7-EBC	1.70 inches, w.c.	11/27/12 & 11/28/12
Generator #10	CE 8-EBC	1.50 inches, w.c.	11/30/12

- i. The owner or operator shall maintain a record of the pressure drop across each catalyst (CE 3-EBC, CE 4-EBC, CE 5-EBC, CE 6-EBC, CE 7-EBC, CE 8-EBC). The pressure drop shall be recorded at least once per month.
- H. For EU 3-UUE, EU 4-UUE, EU 5-UUE, EU 6-UUE, EU 7-UUE, EU 8-UUE, the owner or operator shall minimize each engine's time spent at idle and shall minimize each engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitation for CO apply.
- I. For EU 3-UUE, EU 4-UUE, EU 5-UUE, EU 6-UUE, EU 7-UUE, EU 8-UUE, the owner or operator shall submit semiannual compliance reports that shall cover the periods from January 1 to June 30 and from July 1 to December 31 of each year. The reports shall be submitted by July 31 or January 31, whichever is the first date after the end of the reporting period.<sup>(3)</sup>The report shall contain the following information:
- i. Company name and address;
  - ii. Statement by the responsible official, with that official's name, title and signature, certifying the accuracy and the content of the report;
  - iii. Date of the report and the beginning and ending dates of the reporting periods;
  - iv. A brief description of any:
    - a. Malfunctions that may have caused any applicable emission limit to be exceeded. This shall include the date and duration of the malfunction and a

- description of what actions were taken during the malfunction to minimize emissions and to correct the malfunction;
  - b. Deviations from any emission or operating limitations. This shall include the date and duration of the deviation and a description of what actions were taken to correct the deviation.
  - c. Periods of time during which the continuous monitoring system was not operating.
  - v. If there were no malfunctions or deviations from the emission or operating limitations during the reporting period, a statement to that effect.
- J. The owner or operator shall develop an operating and maintenance plan for each Diesel Oxidation Catalyst (CE 3-EBC, CE 4-EBC, CE 5-EBC, CE 6-EBC, CE 7-EBC, CE 8-EBC), including a preventative maintenance schedule that is consistent with the manufacturer's instructions for routine and long-term maintenance.
- i. The owner or operator shall maintain a record of all inspections and maintenance and any action resulting from the inspection and maintenance of each Diesel Oxidation Catalyst (CE 3-EBC, CE 4-EBC, CE 5-EBC, CE 6-EBC, CE 7-EBC, CE 8-EBC).

Authority for Requirement: DNR Construction Permits: 94-A-042-S4, 94-A-043-S4  
 94-A-044-S4, 94-A-045-S4  
 94-A-046-S4, 94-A-047-S4

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 567 IAC 23.1(4)"cz"

<sup>(3)</sup> These reports can be submitted with the Title V Annual Compliance Certification (March 31) and Semi-Annual Monitoring Report (September 30)

**Emission Point Characteristics**

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

Stack Height (feet): 44.6

Stack Diameter (inches): 16

Stack Exhaust Flow Rate (scfm): 7,000

Stack Temperature (°F): 820

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permits: 94-A-042-S4, 94-A-043-S4  
94-A-044-S4, 94-A-045-S4  
94-A-046-S4, 94-A-047-S4

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 22.108(3)

## Emission Point ID Numbers: Bulk Storage Tanks

### Associated Equipment

**Table: Bulk Storage Tanks**

<b>Emission Point Number</b>	<b>Emission Unit Number</b>	<b>Emission Unit Description</b>	<b>Raw Materials</b>	<b>Rated Capacity (gal)</b>	<b>Construction Permit</b>
1-PBT-1	1-PBT	Bulk Storage Tank	Diesel or Lubricating Oil	10,000 gallons	00-A-508
2-PBT-1	2-PBT	Bulk Storage Tank	Diesel or Lubricating Oil	10,000 gallons	00-A-509
3-PBT-1	3-PBT	Bulk Storage Tank	Diesel or Lubricating Oil	10,000 gallons	00-A-510
4-PBT-1	4-PBT	Bulk Storage Tank	Diesel or Lubricating Oil	10,000 gallons	00-A-511
5-PBT-1	5-PBT	Bulk Storage Tank	Diesel or Lubricating Oil	10,000 gallons	00-A-512
6-PBT-1	6-PBT	Bulk Storage Tank	Diesel or Lubricating Oil	10,000 gallons	00-A-513
7-PBT-1	7-PBT	Bulk Storage Tank	Diesel or Lubricating Oil	10,000 gallons	00-A-514
8-PBT-1	8-PBT	Bulk Storage Tank	Diesel or Lubricating Oil	10,000 gallons	00-A-515
9-PBT-1	9-PBT	Bulk Storage Tank	Diesel or Lubricating Oil	10,000 gallons	00-A-516
10-PBT-1	10-PBT	Bulk Storage Tank	Diesel or Lubricating Oil	10,000 gallons	00-A-517
11-PBT-1	11-PBT	Bulk Storage Tank	Diesel or Lubricating Oil	10,000 gallons	00-A-518
12-PBT-1	12-PBT	Bulk Storage Tank	Diesel or Lubricating Oil	10,000 gallons	00-A-519
13-PBT-1	13-PBT	Bulk Storage Tank	Diesel or Lubricating Oil	10,000 gallons	00-A-520
14-PBT-1	14-PBT	Bulk Storage Tank	Diesel or Lubricating Oil	10,000 gallons	00-A-521
15-PBT-1	15-PBT	Bulk Storage Tank	Diesel or Lubricating Oil	10,000 gallons	00-A-522
16-PBT-1	16-PBT	Bulk Storage Tank	Ethylene Glycol	10,000 gallons	00-A-523

**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.*

There are no emission limits at this time.

**Operational Limits, Requirements, and Recordkeeping**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five (5) years and shall be available for inspection by the Department.*

- A. Record the throughput of the bulk storage tanks on a monthly basis with a rolling 12-month total.
- B. Maintain on site MSDS for material stored in the storage tanks.

Authority for Requirement: DNR Construction Permits Listed in Table: Bulk Storage Tanks

**Emission Point Characteristics**

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

Stack Height (feet from the ground): 22.5 feet

Exhaust Flow Rate (scfm): Working Breathing Loss

Exhaust Temperature (°F): Ambient

Stack Opening (inches, dia.): 3 inches

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permits Listed in Table: Bulk Storage Tanks

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 22.108(3)

## Emission Point ID Numbers: G2-Emergency Generator Diesel Tanks

### Associated Equipment

**Table: G2-Emergency Generator Diesel Tanks**

Emission Point	Emission Unit	Emission Unit Description	Rated Capacity (gallons)	Construction Permit
1-UBT-1	1-UBT	G2-Emergency Generator Diesel Tank	1,000	01-A-687
1-UBT-2				01-A-688
2-UBT-1	2-UBT	G2-Emergency Generator Diesel Tank	1,000	01-A-689
2-UBT-2				01-A-690

Raw Material/Fuel: Diesel

### 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.*

There are no emission limits at this time.

#### Operational Limits, Requirements, and Recordkeeping

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five (5) years and shall be available for inspection by the Department.*

- A. The total combined throughput of EU 1-UBT (permits 01-A-687 & 01-A-688) and EU 2-UBT (permits 01-A-689 & 01-A-690) shall not exceed 183,486 gallons per rolling 12-month period.
- B. The owner /operator shall maintain a copy of the Material Safety Data Sheet (MSDS) for all materials stored in the unit.
- C. Determine the combined annual throughput of material for EU 1-UBT (permits 01-A-687 & 01-A-688) and EU 2-UBT (permits 01-A-689 & 01-A-690) on a rolling 12-month basis for each month of operation.

Authority for Requirement: DNR Construction Permits Listed in Table: G2-Emergency Generator Diesel Tanks

**Emission Point Characteristics**

*These emission points shall conform to the specifications listed below.*

Emission Point Number	Stack Height (feet)	Stack Diameter (inches)	Exhaust Flow Rate (scfm)	Stack Temperature (°F)	Discharge Style	Construction Permit
1-UBT-1	12	2	Displacement	70	Horizontal	01-A-687
1-UBT-2	12	6	Displacement	70	Horizontal	01-A-688
2-UBT-1	12	2	Displacement	70	Horizontal	01-A-689
2-UBT-2	12	6	Displacement	70	Horizontal	01-A-690

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 22.108(3)

## **Emission Point ID Number: 1-PWA-1**

### Associated Equipment

Associated Emission Unit ID Number: 1-PWA  
Emissions Control Equipment ID Number: 6-EFC  
Emissions Control Equipment Description: Cartridge Filter

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Emission Unit vented through this Emission Point: 1-PWA  
Emission Unit Description: 942-W2 Reclaim Weld Booth  
Raw Material/Fuel: Welding Electrode  
Rated Capacity: 0.01 ton/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): 20%  
Authority for Requirement: DNR Construction Permit 98-A-595  
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter  
Emission Limit(s): 0.1 gr/dscf  
Authority for Requirement: DNR Construction Permit 98-A-595  
567 IAC 23.3(2)"a"

#### Emission Point Characteristics

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

Stack Height (feet): 52.1  
Stack Diameter (inches): 12  
Stack Exhaust Flow Rate (scfm): 2,000  
Stack Temperature (°F): Ambient  
Discharge Style: Vertical Unobstructed  
Authority for Requirement: DNR Construction Permit 98-A-595

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.



Visible emissions shall be observed on a weekly basis to ensure there are none when the emission unit on this emission point is at or near full capacity. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>20 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from observation of the violation.

If weather conditions prevent the observer from conducting an observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

Authority for Requirement: 567 IAC 22.108(14)

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: 2-PWA-1**

### Associated Equipment

Associated Emission Unit ID Numbers: 2-PWA  
Emissions Control Equipment ID Number: 25-EFC  
Emissions Control Equipment Description: Cartridge Filter Baghouse

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Emission Unit vented through this Emission Point: 2-PWA  
Emission Unit Description: 155-W5 Reclaim Weld Booth  
Raw Material/Fuel: Welding Wire  
Rated Capacity: 20 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 % <sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 18-A-142-S1  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of (25%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 18-A-142-S1  
567 IAC 23.3(2)"a"

#### **Operational Limits, Requirements, and Recordkeeping**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five (5) years and shall be available for inspection by the Department.*

- A. The owner or operator shall inspect and maintain the control equipment according to the facility's (Plant# 31-01-009) operation and maintenance plan.
  - i. The owner or operator shall keep a log of all maintenance and inspection activities performed on the control equipment. At a minimum, this log shall include the date that any inspection and/or maintenance was performed on the control equipment.

Authority for Requirement: DNR Construction Permit 18-A-142-S1

**Emission Point Characteristics**

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

Stack Height (feet): 41

Stack Diameter (inches): 10

Stack Exhaust Flow Rate (scfm): 2,011

Stack Temperature (°F): 72

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 18-A-142-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 22.108(3)

## **Emission Point ID Number: 5-DWA-1**

### Associated Equipment

Associated Emission Unit ID Numbers: 5-DWA  
Emissions Control Equipment ID Number: 7-EFC  
Emissions Control Equipment Description: Cartridge Filter Baghouse

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Emission Unit vented through this Emission Point: 5-DWA  
Emission Unit Description: 314-X1E Rework Weld Booth  
Raw Material/Fuel: Welding Rod  
Rated Capacity: 5.03 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): 20 %  
Authority for Requirement: DNR Construction Permit 98-A-931  
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter  
Emission Limit(s): 0.1 gr/dscf  
Authority for Requirement: DNR Construction Permit 98-A-931  
567 IAC 23.3(2)"a"

#### Emission Point Characteristics

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

Stack Height (feet): 40.3  
Stack Diameter (inches): 12  
Stack Exhaust Flow Rate (scfm): 1000  
Stack Temperature (°F): 70  
Authority for Requirement: DNR Construction Permits 98-A-931

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.*

**Opacity:**

Visible emissions shall be observed on a weekly basis to ensure there are none when the emission unit on this emission point is at or near full capacity. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>20 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from observation of the violation.

If weather conditions prevent the observer from conducting an observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

Authority for Requirement: 567 IAC 22.108(14)

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: 18-UVM-1F (Internally Vented)**

### Associated Equipment

Associated Emission Unit ID Number: 18-UVM

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Emission Unit vented through this Emission Point: 18-UVM

Emission Unit Description: Air Make-Up X-21

Raw Material/Fuel: Natural Gas

Rated Capacity: 7.0 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 % <sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 00-A-817-S1  
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter

Emission Limit(s): 0.07 lb/hr, 0.1 gr /dscf

Authority for Requirement: DNR Construction Permit 00-A-817-S1  
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 500 ppmv

Authority for Requirement: DNR Construction Permit 00-A-817-S1  
567 IAC 23.3(3)"e"

#### Operational Limits, Requirements, and Recordkeeping

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five (5) years and shall be available for inspection by the Department.*

- A. The owner or operator shall only combust natural gas in the Air Make-Up Unit (EU 18-UVM).

Authority for Requirement: DNR Construction Permit 00-A-817-S1

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

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

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: Production Welding

### Associated Equipment

**Table: Production Welding**

Emission Point Number	Emission Unit Number	Emission Unit Description
1-GWA-1	1-GWA	BHL Mainframe Welding
2-GWA-1	2-GWA	BHL Component Welding
3-GWA-1	3-GWA	Crawler Fabrication Welding
4-GWA-1	4-GWA	SSL Boom Welding
5-GWA-1	5-GWA	SSL Mainframe Welding
6-GWA-1	6-GWA	Service Parts Welding
7-GWA-1	7-GWA	Crawler Construction Frame Welding
8-GWA-1	8-GWA	Crawler and Forestry Large Frame Welding

Raw Materials: Welding Wire  
Rated Capacity: 110 lb/hr (each)

### Applicable Requirements

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

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

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

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

#### Monitoring Requirements

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

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

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

Authority for Requirement: 567 IAC 22.108(3)



## Emission Point ID Numbers: Paint Pretreatment Washers

### Associated Equipment

**Table: Paint Pretreatment Washers**

Emission Point Number	Emission Unit Number	Emission Unit Description	Raw Material	Rated Capacity (gal/hr)
7-PCW-1	7-PCW	BHL Paint Pretreatment Washer 1&2	Wash Water (Iron Phosphate)	3,360
7-PCW-2				
8-PCW-1	8-PCW	CWL Paint Pretreatment Washer 1&2	Wash Water (Iron Phosphate)	3,360
8-PCW-2				
9-PCW-IF	9-PCW	Forestry Pre-paint Wash Bay	Wash Water (Including a Phosphate Wash)	240

### 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"

#### Operational Limits, Requirements, and Recordkeeping

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five (5) years and shall be available for inspection by the Department.*

#### **National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability**

These sources are subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart M – Surface Coating of Miscellaneous Metal Parts and Products (40 CFR §63.3880 through 40 CFR §63.3981) and to NESHAP Subpart A - General Provisions (40 CFR §63.1 through 40 CFR §63.15).

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

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Numbers: 5-UUS-1**

### Associated Equipment

Associated Emission Unit ID Number: 5-UUS

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Emission Unit vented through these Emission Points: 5-UUS

Emission Unit Description: Tank Farm Boiler

Raw Material/Fuel: Natural Gas

Rated Capacity: 0.84 MMBtu/hr

### Applicable Requirements

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

*The emissions from the emission units above 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 (SO<sub>2</sub>)

Emission Limit(s): 500ppmv

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

#### Operational Limits, Requirements, and Recordkeeping

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five (5) years and shall be available for inspection by the Department.*

#### **National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability**

These boilers are subject to the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters 40 CFR Part 63, Subpart DDDDD

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

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: 1-UUE-1**

### Associated Equipment

Associated Emission Unit ID Numbers: 1-UUE

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Emission Unit vented through this Emission Point: 1-UUE  
Emission Unit Description: Powerhouse Emergency Generator  
Raw Material/Fuel: Diesel Fuel  
Rated Capacity: 66 bhp

### Applicable Requirements

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

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

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

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

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

#### Operational Limits, Requirements, and Recordkeeping

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five (5) years and shall be available for inspection by the Department.*

#### **National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability**

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

Operation and Maintenance Requirements 40 CFR 63.6602, 63.6625, 63.6640 and Tables 2c and 6 to Subpart ZZZZ

- A. Change oil and filter every 500 hours of operation or annually, whichever comes first. (See 63.6625(i) for the oil analysis option to extend time frame of requirements.)
- B. Inspect air cleaner every 1000 hours of operation or annually, whichever comes first, and replace as necessary.
- C. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
- D. 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.
- E. Install a non-resettable hour meter if one is not already installed.
- F. 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)

- A. Any operation other than emergency operation, maintenance and testing, emergency demand response and operation in non-emergency situations (*up to*) 50 hours per year is prohibited.
- B. There is no time limit on the use of emergency stationary RICE in emergency situations.
- C. 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.
- D. You may operate your emergency stationary RICE up to 50 hours per calendar year for non-emergency situations, but those 50 hours are counted toward the 100 hours of maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

Recordkeeping Requirements 40 CFR 63.6655

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

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

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

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

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Numbers: 1-UUW-1**

### Associated Equipment

Associated Emission Unit ID Numbers: 1-UUW

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Emission Unit vented through this Emission Point: 1-UUW  
Emission Unit Description: #6 Fire Well (2007 Model)  
Raw Material/Fuel: Diesel Fuel  
Rated Capacity: 252 bhp

### Applicable Requirements

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

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

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

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

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

#### Operational Limits, Requirements, and Recordkeeping

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five (5) years and shall be available for inspection by the Department.*

#### **National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability**

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

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

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



## New Source Performance Standards (NSPS) Applicability

### NSPS Subpart III Requirements

According to 40 CFR 60.4205(c) and Table 1 to Subpart III, you must comply with the following emission standards in grams/kW-hr (grams/HP-hr):

Maximum Engine Power	Model Year(s)	NMHC + NO <sub>x</sub>	CO	PM
130 ≤ kW ≤ 560 (175 ≤ HP ≤ 750)	2008 and earlier	10.5 (7.8)	3.5 (2.6)	0.54 (0.40)

### Fuel Requirements

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

### Compliance Requirements:

1. You must operate and maintain the engine to comply with the required emission standards over the entire life of the engine (40 CFR 60.4206) by doing all of the following (40 CFR 60.4211(a)).
  - a) Operating and maintaining the engine and control device according to the manufacturer's emission-related written instructions;
  - b) Changing only those emission-related settings that are permitted by the manufacturer; and
  - c) Meeting the requirements of 40 CFR 89, 94 and/or 1068, as they apply to you.
2. You must demonstrate compliance with the applicable emission standards according to one of the following methods. 40 CFR 60.4211(b).
  - a) Purchasing an engine certified according to 40 CFR 89 or 40 CFR 94, as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.
  - b) Keeping records of performance test results for each pollutant for a test conducted on a similar engine. The test must have been conducted using the same methods specified in Subpart III and these methods must have been followed correctly.
  - c) Keeping records of engine manufacturer data indicating compliance with the standards.
  - d) Keeping records of control device vendor data indicating compliance with the standards.
  - e) Conducting an initial performance test to demonstrate compliance with the emission standards according to the requirements specified in 40 CFR 60.4212, as applicable.
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 <sup>(1)</sup>	Not required

<sup>(1)</sup>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 Requirements**

1. If your emergency engine does not meet the standards applicable to non-emergency engines, you must install a non-resettable hour meter prior to startup of the engine (40 CFR 40.4209(a)). There is no time limit on use for emergency situations. 40 CFR 60.4211(f)(1).
2. The engine may be operated for the purpose of maintenance checks and readiness testing, emergency demand response, and deviation of voltage or frequency for a maximum of 100 hours/year. See 40 CFR 60.4211(f)(2) for more information.
3. The engine may be operated for up to 50 hours per year for non-emergency purposes. This operating time cannot be used for peak shaving or non-emergency demand response or to generate income for the facility (e.g. supplying power to the grid) and should be included in the total of 100 hours allowed for maintenance checks and readiness testing. See 40 CFR 60.4211(f)(3) for more information.

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Numbers: 2-UUW-1**

### Associated Equipment

Associated Emission Unit ID Numbers: 2-UUW

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Emission Unit vented through this Emission Point: 2-UUW  
Emission Unit Description: #8 Fire Well (2009 Model)  
Raw Material/Fuel: Diesel Fuel  
Rated Capacity: 274 bhp

### Applicable Requirements

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

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

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

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

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

#### Operational Limits, Requirements, and Recordkeeping

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five (5) years and shall be available for inspection by the Department.*

#### National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability

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)(ii) this compression ignition emergency engine, located at a major source, is a new stationary RICE as it was constructed on or after June 12, 2006.

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

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

### **NSPS Subpart III Requirements**

#### Emission Standards:

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

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

#### 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.

<b><u>Maximum Engine Power</u></b>	<b><u>Initial Test</u></b>	<b><u>Subsequent Test</u></b>
<u>100 ≤ HP ≤ 500</u>	<u>Within 1 year of engine startup,</u>	<u>Not required</u>

	<u>or non-permitted action</u> <sup>(1)</sup>	
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<sup>(1)</sup>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).

<u>Engine power</u>	<u>Starting model year</u>
<u>19 ≤ KW &lt; 56 (25 ≤ HP &lt; 75)</u>	<u>2013</u>
<u>56 ≤ KW &lt; 130 (75 ≤ HP &lt; 175)</u>	<u>2012</u>
<u>130 ≤ KW (175 ≤ HP)</u>	<u>2011</u>

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.

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Numbers: 9-UUE-1**

### Associated Equipment

Associated Emission Unit ID Numbers: 9-UUE

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Emission Unit vented through this Emission Point: 9-UUE  
Emission Unit Description: Computer Room Backup Generator  
Raw Material/Fuel: Diesel Fuel  
Rated Capacity: 347 bhp

### Applicable Requirements

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

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

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

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

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

#### Operational Limits, Requirements, and Recordkeeping

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five (5) years and shall be available for inspection by the Department.*

#### **National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability**

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

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

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

## New Source Performance Standards (NSPS) Applicability

### NSPS Subpart IIII Requirements

This compression ignition engine is a pre-2007 model year CI engine with a displacement < 30l/cyl constructed after 7/11/2005 but manufactured **before** 4/1/2006. As such, it currently has no requirements under 40 CFR 60 Subpart IIII.

Process throughput:

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

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

- A. The facility shall monitor the percent of sulfur by weight in the fuel oil as delivered. The documentation may be vendor supplied or facility generated.

Authority for Requirement: 567 IAC 22.108(3)

### **Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Numbers: 10-UUE-1**

### Associated Equipment

Associated Emission Unit ID Numbers: 10-UUE

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Emission Unit vented through this Emission Point: 10-UUE

Emission Unit Description: Sanitary Wastewater Treatment Back-up Generator

Raw Material/Fuel: Diesel Fuel

Rated Capacity: 197 bhp, 10 gal/hr

### Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %

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 (SO<sub>2</sub>)

Emission Limit(s): 2.5 lb/MMBtu

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

#### Operational Limits, Requirements, and Recordkeeping

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five (5) years and shall be available for inspection by the Department.*

#### **National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability**

This emergency engine is subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE).

According to 40 CFR 63.6590(a)(1)(ii) this compression ignition emergency engine, located at a major source, is a new stationary RICE as it was constructed on or after June 12, 2006.

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

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



## New Source Performance Standards (NSPS) Applicability

### NSPS Subpart III Requirements

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

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

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

Engine Displacement (l/cyl)	Maximum Engine Power	Model Year(s)	NMHC + NOx	CO	PM	Opacity	Rule Ref
Disp. < 10	130 ≤ kW < 225 (175 ≤ HP < 302)	2007+	4.0 (3.0)	3.5 (2.6)	0.20 (0.15)	(1)	(2)

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

<sup>(2)</sup> 40 CFR 89.112 and 40 CFR 89.113.

##### 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 octane index of 40 or a maximum aromatic content of 35 percent by volume. 40 CFR 60.4207 and 40 CFR 80.510(b).

##### Compliance Requirements:

1. You must operate and maintain the engine to comply with the required emission standards over the entire life of the engine (40 CFR 60.4206) by doing all of the following (40 CFR 60.4211(a)).
  - i. Operating and maintaining the engine and control device according to the manufacturer's emission-related written instructions;
  - ii. Changing only those emission-related settings that are permitted by the manufacturer; and
  - iii. 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 <sup>(1)</sup>	Not required

<sup>(1)</sup> 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 Requirements and Associated Record Keeping**

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

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

2. There is no time limit on 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: 567 IAC 22.108(3)

### **Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Numbers: 15-PUG-1**

### Associated Equipment

Associated Emission Unit ID Number: 15-PUG

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Emission Unit vented through this Emission Point: 15-PUG

Emission Unit Description: Crawler Boiler

Raw Material/Fuel: Natural Gas

Rated Capacity: 15 MMBtu/hr

### Applicable Requirements

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

*The emissions from the emission units above shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40% <sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 18-A-688-S1  
567 IAC 23.3(2)"d"

<sup>(1)</sup> 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

Emission Limit(s): 0.14 lb/hr, 0.6 lb/MMBtu

Authority for Requirement: DNR Construction Permit 18-A-688-S1  
567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 500ppmv

Authority for Requirement: DNR Construction Permit 18-A-688-S1  
567 IAC 23.3(3)"e"

#### Operational Limits, Requirements, and Recordkeeping

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five (5) years and shall be available for inspection by the Department.*

A. The boiler shall use natural gas only.

i. The owner or operator shall maintain records of the type of fuel used in the boiler on a calendar month basis as specified in §60.48c(g)(2)

Authority for Requirement: DNR Construction Permit 18-A-688-S1  
40 CFR Part 60 Subpart Dc  
567 IAC 23.1(2)"III"

### **New Source Performance Standards (NSPS) Applicability**

This boiler is subject to the New Source Performance Standards (NSPS) General Provisions 40 CFR Part 60.1 – 60.19, Subpart A, and NSPS for Small Industrial-Commercial-Institutional Steam Generating Units 40 CFR Part 60.40c – 60.40g, Subpart Dc.

Authority for Requirement: 40 CFR Part 60.1 – 60.19 Subpart A  
567 IAC 23.1(2)  
40 CFR Part 60.40c – 60.40g Subpart Dc  
567 IAC 23.1(2)"III"

### **National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability**

This boiler is of the source category affected by the following federal regulations: National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (40 CFR Part 63 Subpart DDDDD).

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

### **Emission Point Characteristics**

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

Stack Height (feet): 34

Stack Outlet Dimensions (inches): 22

Stack Exhaust Flow Rate (scfm): 1,950

Stack Temperature (°F): 450

Discharge Style: Vertical Obstructed

Authority for Requirement: DNR Construction Permit 18-A-688-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 22.108(3)

## **Emission Point ID Numbers: 18-PUG-1**

### Associated Equipment

Associated Emission Unit ID Number: 18-PUG

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Emission Unit vented through this Emission Point: 18-PUG  
Emission Unit Description: Backhoe Pre-Paint Wash Boiler  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 15 MMBtu/hr

### Applicable Requirements

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

*The emissions from the emission units above shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40% <sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 20-A-214-S1  
567 IAC 23.3(2)"d"

<sup>(1)</sup> 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

Emission Limit(s): 0.14 lb/hr, 0.6 lb/MMBtu

Authority for Requirement: DNR Construction Permit 20-A-214-S1  
567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 500ppmv

Authority for Requirement: DNR Construction Permit 20-A-214-S1  
567 IAC 23.3(3)"e"

#### Operational Limits, Requirements, and Recordkeeping

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five (5) years and shall be available for inspection by the Department.*

- A. The Backhoe Pre-Paint Wash Boiler (EU-18-PUG) shall combust natural gas only.
- B. The owner or operator shall comply with the applicable standards in 40 CFR Part 60, Subpart Dc [§60.40c - §60.48c], including those not specifically mentioned in this permit.
- C. Per 40 CFR §60.48c(g)(1), the owner or operator shall record and maintain records of the amount of fuel combusted during each operating day. As an alternative to this requirement, the owner or operator may elect to:

- i. Record and maintain records of the amount of fuel combusted during each calendar month [40 CFR §60.48c(g)(2)]; or
- ii. Record and maintain records of the total amount of the steam generating unit fuel delivered to the property during each calendar month [40 CFR §60.48c(g)(3)].

Authority for Requirement: DNR Construction Permit 20-A-214-S1  
40 CFR Part 60 Subpart Dc  
567 IAC 23.1(2)"III"

### **New Source Performance Standards (NSPS) Applicability**

This boiler is subject to the New Source Performance Standards (NSPS) General Provisions 40 CFR Part 60.1 – 60.19, Subpart A, and NSPS for Small Industrial-Commercial-Institutional Steam Generating Units 40 CFR Part 60.40c – 60.40g, Subpart Dc.

Authority for Requirement: 40 CFR Part 60.1 – 60.19 Subpart A  
567 IAC 23.1(2)  
40 CFR Part 60.40c – 60.48c Subpart Dc  
567 IAC 23.1(2)"III"

### **National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability**

This boiler is subject to the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters 40 CFR Part 63, Subpart DDDDD

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

### **Emission Point Characteristics**

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

Stack Height (feet): 34

Stack Outlet Dimensions (inches): 22

Stack Exhaust Flow Rate (scfm): 3,100

Stack Temperature (°F): 400

Discharge Style: Vertical Obstructed

Authority for Requirement: DNR Construction Permit 20-A-214-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 22.108(3)



## IV. General Conditions

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

### G1. Duty to Comply

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

### G2. Permit Expiration

1. Except as provided in rule 567—22.104(455B), permit expiration terminates a source's right to operate unless a timely and complete application for renewal has been submitted in accordance with rule 567—22.105(455B). *567 IAC 22.116(2)*
2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall submit on forms or electronic format specified by the Department to the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, Wallace State Office Building, 502 E 9th St., Des Moines, IA 50319-0034, two copies (three if your facility is located in Linn or Polk county) of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. An additional copy must also be sent to U.S. EPA Region VII, Attention: Chief of Air Permitting & Standards Branch, 11201 Renner Blvd., Lenexa, KS 66219. Additional copies to local programs or EPA are not required for application materials submitted through the electronic format specified by the Department. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in 567 IAC 22.105(2). *567 IAC 22.105*

### G3. Certification Requirement for Title V Related Documents

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

#### **G4. Annual Compliance Certification**

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

#### **G5. Semi-Annual Monitoring Report**

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

#### **G6. Annual Fee**

1. The permittee is required under subrule 567 IAC 22.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The emissions inventory shall be submitted annually by March 31 with forms specified by the department documenting actual emissions for the previous calendar year.
4. The fee shall be submitted annually by July 1 with forms specified by the department.
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.
6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d".

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

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

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

### **G8. Duty to Provide Information**

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

### **G9. General Maintenance and Repair Duties**

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

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

### **G10. Recordkeeping Requirements for Compliance Monitoring**

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

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

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

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

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

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

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

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

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

#### **G13. Hazardous Release**

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

#### **G14. Excess Emissions and Excess Emissions Reporting Requirements**

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a

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

## 2. Excess Emissions Reporting

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

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

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

- i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and duration of the excess emission.
- iv. The cause of the excess emission.

v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.

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

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

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

- a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
- b. The facility at the time was being properly operated;
- c. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements of the permit; and
- d. The permittee submitted notice of the emergency to the director by certified mail within two working days of the time when the emissions limitations were exceeded due to the emergency. This notice fulfills the requirement of paragraph 22.108(5)"b." – See G15. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

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

#### **G15. Permit Deviation Reporting Requirements**

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

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

During the term of this permit, the permittee must notify the department of any source that becomes subject to a standard or other requirement under 567-subrule 23.1(2) (standards of performance of new stationary sources) or section 111 of the Act; or 567-subrule 23.1(3) (emissions standards for hazardous air pollutants), 567-subrule 23.1(4) (emission standards for hazardous air pollutants for source categories) or section 112 of the Act. This notification shall be submitted in writing to the department pursuant to the notification requirements in 40 CFR Section 60.7, 40 CFR Section 61.07, and/or 40 CFR Section 63.9. *567 IAC 23.1(2), 567 IAC 23.1(3), 567 IAC 23.1(4)*

## **G17. Requirements for Making Changes to Emission Sources That Do Not Require Title V Permit Modification**

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:
  - a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.
  - b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
  - c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
  - d. The changes are not subject to any requirement under Title IV of the Act (revisions affecting Title IV permitting are addressed in rules 567—22.140(455B) through 567 - 22.144(455B)).
  - e. The changes comply with all applicable requirements.
  - f. For each such change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:
    - i. A brief description of the change within the permitted facility,
    - ii. The date on which the change will occur,
    - iii. Any change in emission as a result of that change,
    - iv. The pollutants emitted subject to the emissions trade
    - v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
    - vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
    - vii. Any permit term or condition no longer applicable as a result of the change.
2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 22.110(2)*
3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*
4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*

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

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

#### **1. Administrative Amendment.**

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

#### **2. Minor Title V Permit Modification.**

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



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

### 3. Significant Title V Permit Modification.

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

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

#### **G19. Duty to Obtain Construction Permits**

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

#### **G20. Asbestos**

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

#### **G21. Open Burning**

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

## **G22. Acid Rain (Title IV) Emissions Allowances**

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

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

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

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

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

#### **G24. Permit Reopenings**

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

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

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

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

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

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

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

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

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

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

e. The department or the administrator determines that the permit must be revised or

revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*

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

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

#### **G25. Permit Shield**

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

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

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

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

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

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

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

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

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

#### **G26. Severability**

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

#### **G27. Property Rights**

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

#### **G28. Transferability**

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

**G29. Disclaimer**

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

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

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

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

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

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

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

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

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

*567 IAC 26.1(1)*

### **G32. Contacts List**

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

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

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

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

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

#### **Field Office 1**

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

#### **Field Office 2**

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

#### **Field Office 3**

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

#### **Field Office 4**

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

#### **Field Office 5**

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

#### **Field Office 6**

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

#### **Polk County Public Works Dept.**

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

#### **Linn County Public Health**

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

## **Appendix A:**

### **NESHAPS:**

#### **40 CFR Part 63, Subpart MMMM**

Web Link to the National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart MMMM – Surface Coating of Miscellaneous Metal Parts and Products

<http://www.ecfr.gov/cgi-bin/text-idx?node=sp40.13.63.mmmm>

#### **40 CFR Part 63, Subpart PPPPP**

Web Link to the National Emission Standards for Hazardous Air Pollutants for Engine Test Cells/Standards.

<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-PPPPP>

#### **40 CFR Part 63, Subpart ZZZZ**

Web Link to the National Emissions Standards for Hazardous Air Pollutants: Stationary Reciprocating Internal Combustion Engines

<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-ZZZZ>

#### **40 CFR Part 63, Subpart DDDDD**

Web Link to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters.

<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-DDDDD>

### **NSPS:**

#### **40 CFR Part 60, Subparts Db and Dc**

Web Link to the New Source Performance Standards (NSPS) for Industrial-Commercial-Institutional Steam Generating Units.

<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-Db>

#### **40 CFR Part 60, Subpart IIII**

Web link to the New Source Performance Standards (NSPS) for Stationary Compression Ignition Internal Combustion Engines

<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-III>