Iowa Department of Natural Resources
Title V Operating Permit

Name of Permitted Facility: Iowa Army Ammunition Plant
Facility Location: 17571 DMC Highway 79 Middletown, Iowa 52638
Air Quality Operating Permit Number: 04-TV-019R4
Expiration Date: 10/7/2031
Permit Renewal Application Deadline: 4/7/2031

EIQ Number: 92-3457
Facility File Number: 29-01-004

Responsible Official
Name: Daniel Nosse
Title: Lieutenant Colonel, U.S. Army Commanding
Mailing Address: 17571 DMC Hwy 79, Middletown, IA 52638
Phone #: (319) 753-7200

Permit Contact Person for the Facility
Name: Zachary Hill
Title: IAAAP – Environmental Supervisor
Mailing Address: 17575 DMC Hwy 79, Middletown, IA 52638
Phone #: (319) 753-7721

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

For the Director of the Department of Natural Resources

Corey McCoid

10/8/2026

Corey McCoid, Supervisor of Air Operating Permits Section — Date

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Abbreviations

acfm.....actual cubic feet per minute
CFR.....Code of Federal Regulation
CE .....control equipment
CEM.....continuous emission monitor
^{o}F .....degrees Fahrenheit
EIQ.....emissions inventory questionnaire
EP.....emission point
EU .....emission unit
g/kW-hr……..gram per kilowatt hour
gr./dscf .....grains per dry standard cubic foot
IAC.....Iowa Administrative Code
IDNR.....Iowa Department of Natural Resources
NMHC……Non-Methane Hydrocarbons
NSR……New Source Review
NAICS.....North American Industry Classification System
NSPS .....new source performance standard
ppmv .....parts per million by volume
lb./hr .....pounds per hour
lb./MMBtu .....pounds per million British thermal units
SCC.....Source Classification Codes
scfm.....standard cubic feet per minute
SIC……. Standard Industrial Classification
TPY .....tons per year
USEPA.....United States Environmental Protection Agency

Pollutants

PM.....particulate matter
PM_{10} .....particulate matter ten microns or less in diameter
$PM_{2.5}$ .....particulate matter 2.5 microns or less in diameter
SO_2 .....sulfur dioxide
NO_x .....nitrogen oxides
VOC .....volatile organic compound
CO .....carbon monoxide
HAP.....hazardous air pollutant
NMHC.....non-methane hydrocarbons

I. Facility Description and Equipment List

Facility Name: Iowa Army Ammunition Plant
Permit Number: 04-TV-019R4
Facility Description: National Defense (SIC 9711)

Equipment List

Line 1 – Adhesive Application and Cleaning Processes

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
1-10-32	1-10-32	Adhesive Spray Booth	12-A-132
1-18-6	1-18-3	Solvent and Adhesive Application	96-A-826-S1
	1-18-5	Explosives Screening	
1-18-7	1-18-6	Solvent Application	96-A-827
1-13-18	1-13-18	Propellant Weigh and Fill	08-A-331
	1-13-19	(Cleaning Stations - 2)	
1-85-2-10	1-85-2-10	Varnish Applications (9 Stations)	10-A-403-S4
	1-85-2-11	Ink Jet Process (9 Stations)	
	1-85-2-12	Adhesive Applications (3 Stations)	
	1-85-2-13	Propellant Weigh and Load (7 Stations)	
	1-85-2-14	Laser Cutting Operation (1 Station)	

Line 1 – Surface Coating Processes

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
1-61-7	1-61-18	Surface Coating Operations	05-A-501
1-18-10	1-18-9	Surface Coating Operations	94-A-172

Line 1 – Explosives Processing

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
1-01-1	1-01-1	Ribbon Blender	89-A-022
1-01-5	1-01-5	Double Cone Blender	88-A-126
1-01-6	1-01-6	Dust Removal System	88-A-128
1-01-7	1-01-7	Hammermill	88-A-129
1-10-31	1-10-30	Explosive Dumping Station	12-A-131-S1
	1-10-31	Explosive Dumping Station	
1-12-20	1-12-20	Pressing Operation	11-A-359
1-12-24	1-12-24	Explosives Screening	11-A-358
	1-12-25		
1-13-15	1-13-15	Propellant Handling & Loading (4 stations)	01-A-951-S4
1-13-22	1-13-22	Propellant Weighing (4 stations)	10-A-031-S3
	1-13-23	Two (2) Laser Jet Markers	

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
1-01-3	1-01-3	Explosive Processing High Shear Mixer	88-A-127
1-61-23	1-61-21	Varnish Application	25-A-097
	1-61-23	Propellant weigh and Load	
	1-61-24	Adhesive Application	
	1-61-26	Ink Jet Process	
	1-61-27	Sealant Station	
1-65-5-1	1-65-5-3	Explosives Screening Table	03-A-505-S1
	1-65-5-4	Explosives Weighing Table	

Line 1 – Combustion Equipment

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
1-62-2-5	1-62-2-9	Natural Gas Keystone Boiler	04-A-311-S5
1-62-9	1-62-9	Emergency Generator (550 bhp)	10-A-197
1-211-1	1-211-1	Diesel Generator (470 hp)	97-A-524
1-02-5	1-02-5	Boiler (Dual Fuel – Propane and Natural Gas)	21-A-079
1-02-6	1-02-6	Boiler (Dual Fuel – Propane and Natural Gas)	21-A-080
1-02-7	1-02-7	Boiler (Dual Fuel – Propane and Natural Gas)	21-A-081

Line 2 – Adhesive Application and Cleaning Processes

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
Vents internally	2-04-25	Adhesive Station	04-A-855
2-04-25	2-04-25	Adhesive Oven	04-A-856
2-04-36	2-04-1	Oven (Steam heated) - Cleaning Station	04-A-525
	2-04-2		
	2-04-3		
2-12-2	2-12-2	Rework Bay and Cleaning Operations	01-A-1253
2-13-8	2-13-8	Clean and Prime Warheads	03-A-562-S1
	2-13-9	Clean and Prime Warheads	
2-13-9	2-13-10	Clean and Prime Sabots	03-A-563-S1
	2-13-11	Clean and Prime Sabots	
2-13-10	2-13-14	Clean and Prime Operations	03-A-564
	2-13-15	Clean and Prime Operations	

Line 2 – Surface Coating Processes

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
2-05-2-1	2-05-2-4	Surface Coating Operations	80-A-030
2-10-17	2-10-1	Surface Coating Operations	90-A-141

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
2-10-24	2-10-14	Surface Coating Operations	84-A-081-S1
	2-10-15	Inkjet Printer	
2-12-10	2-12-9	Surface Coating Operations	84-A-085
2-12-11	2-12-10	Surface Coating Operations	84-A-084
2-04-21	2-04-4	Base Coat Paint Booth	88-A-028-S3
2-04-22	2-04-5	Top Coat Paint Booth	88-A-027-S3
2-10-23	2-10-13	Surface Coating Operations	84-A-080-S2
	2-10-10	Application Vent	
	2-10-11	Application Vent	
	2-10-12	Application Vent	

Line 2 – Explosives Processing

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
2-10-21	2-10-3	Weighing Stations (3)	Grandfathered source
2-01-6	2-01-6	Adhesive Application	01-A-1136-S1
2-05-2-17	2-05-2-17	Propellant Loading	91-A-249-S2
2-10-27	2-10-27	Propellant Loading System	01-A-636
2-10-28	2-10-28	Propellant Weighing and Handling Tables (5)	01-A-674-S1
2-10-29	2-10-29	Propellant Weighing and Handling Tables (2)	01-A-675
2-10-30	2-10-30	Propellant Weighing and Handling Station	01-A-676-S2
2-12-4	2-12-4	Shell Loading System	03-A-571-S1
2-13-2	2-13-6	Bay D PCA Station (2 Weigh Stations)	01-A-672
2-13-3	2-13-7	Portable Weigh Table	01-A-673
2-13-17	2-13-17	Propellant Screening and Weigh	02-A-119

Line 3 – Surface Coating Processes

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
3-10-2	3-10-2	Surface Coating Operations	87-A-071-S2
3-10-15	3-10-15	Surface Coating Booth	17-A-252

Line 3 – Explosives Processing

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
3A-05-1-14	3A-05-1-14	North Grid Melt	17-A-463
3A-05-1-16	3A-05-1-16	South Grid Melt	17-A-464
3-05-1-26	3-05-1-26	Add/Pour Station (melt kettle)	01-A-1255
3-05-1-27	3-05-1-27	Melt kettle/Add Pour	02-A-120
3-05-1-29	3-05-1-29	Explosive Processing	01-A-1257
3-05-1-5	3-05-1-5	Wash down Facility	79-A-200-S3

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
3-05-1-16	3-05-1-16	Probe Machine	01-A-500
3-05-1-32	3-05-1-32	Screening table	01-A-1256
3-05-1-33	3-05-1-33	Preheat and Post Conditioning Stations	25-A-238
3-50-12	3-50-12	TNT Screening	93-A-375-S1
3-50-13	3-50-13	Explosive Screening Process	06-A-843-S1
3-99-4	3-99-4	Vacuum House	Grandfathered

Line 3A – Adhesive Application and Cleaning Processes

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
3A-05-2-4	3A-05-2-4	Wash Down Operation	96-A-1276
3A-12-4	3A-12-4	Cleaning Station	06-A-845
3A-12-7	3A-12-7	Cleaning Station	06-A-846

Line 3A – Surface Coating Processes

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
3A-04	3A-04	Paint Top Coat and Fluid Film	25-A-121
3A-04-01	3A-04-01	Top Coat and Lanolin Application	25-A-122
3A-12-5	3A-12-5	Spray Paint Booth	03-A-543
3A-12-6	3A-12-6	Surface Coating Operations	90-A-231-S4

Line 3A – Explosives Processing

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
3A-05-1-9	3A-05-1-4	Autoclave (Sump Out Operations)	95-A-186-S8
	3A-05-1-5		
	3A-05-1-6		
	3A-05-1-7		
	3A-05-1-8		
	3A-05-1-9		
	3A-05-1-10		
	3A-05-1-11		
3A-05-1-12	3A-05-1-12	(2) TNT Screening Table	86-A-083-S3
3A-05-1-13	3A-05-1-24	North Scrap Melt & Kettle	01-A-1086-S3
3A-05-1-15	3A-05-1-3	North TNT Weigh Feeder and Melt Kettles	88-A-007-S4
3A-05-1-17	3A-05-1-25	South Scrap Melt & Kettle	01-A-476-S4
3A-05-1-19	3A-05-1-19	South TNT Weigh Feeder and Melt Kettles	01-A-1087-S2
3A-05-1-20	3A-05-1-20	Explosive Pouring Operation	02-A-012-S2
3A-05-1-21	3A-05-1-21	Cooling Ovens (36), Pouring Operation, and Probe Machines (2)	02-A-122-S2

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
3A-05-1-22	3A-05-1-22	Funnel Washing Machines (2)	06-A-844-S2
3A-50-1-1	3A-50-1-1	Loading Hopper	01-A-185-S1
3A-50-1-2	3A-50-1-2	Portable Hopper	01-A-186-S1
3A-50-1-3	3A-50-1-3	Screening Table	01-A-187-S1
3A-99-8	3A-99-8	Vacuum House	01-A-1080

Line 3A – Combustion Equipment

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
3A-02-5	3A-02-5	Natural Gas and Propane Boilers	15-A-572-S2
	3A-02-6		
	3A-02-7		
3A-50-1-4	3A-50-1-4	Emergency Diesel Generator (0.075 kgal/hr)	Exempt

Line 3B

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
3B-05-1-1	3B-05-1-1	FAC Boiler 01 [Cleaver Brookes]	26-A-337
3B-05-2-1	3B-05-2-B1	MP 2 Boiler [Cleaver Brooks]	26-A-338
3B-05-1-2	3B-05-1-EU1	Small Kettle 1	26-A-339
	3B-05-1-EU2	Grid Melter 1	
	3B-05-1-EU3	Small Kettle 2	
	3B-05-1-EU4	Grid Melter 2	
	3B-05-1-EU5	Mixing Kettle 1	
	3B-05-1-EU6	Mixing Kettle 2	
	3B-05-1-EU7	Pouring Machine 1	
	3B-05-1-EU8	Pouring Machine 2	
	3B-05-1-EU9	Feeder/Hopper System 1	
	3B-05-1-EU10	Feeder Hopper System 2	
	3B-05-1-EU11	Weigh Station 1	
	3B-05-1-EU12	Weigh Station 2	
	3B-05-1-EU13	Screening Table 1	
	3B-05-1-EU14	Screening Table 2	
	3B-05-1-EU15	Reclaimed Round Wash	
	3B-05-1-EU16	Ambient Cooling	
	3B-05-1-EU17	Cooling Oven	
3B-05-2-2	3B-05-2-EU1	Mixing Kettle 1	26-A-340
	3B-05-2-EU2	Mixing Kettle 2	
	3B-05-2-EU3	Pouring Machine 1	
	3B-05-2-EU4	Pouring Machine 2	
	3B-05-2-EU5	Feeder/Hopper 1	
	3B-05-2-EU6	Feeder/Hopper 2	
	3B-05-2-EU7	Reclaimed Round Wash	

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
3B-05-2-2	3B-05-2-EU8	Weigh Station 1	26-A-340
	3B-05-2-EU9	Small Kettle 1	
	3B-05-2-EU10	Grid Melter 1	
	3B-05-2-EU11	Small Kettle 2	
	3B-05-2-EU12	Grid Melter 2	
	3B-05-2-EU13	Weigh Station 2	
	3B-05-2-EU14	Screening Table 1	
	3B-05-2-EU15	Screening Table 2	
	3B-05-2-EU17	Ambient Cooling	
	3B-05-2-EU18	Cooling Oven	
3B-05-1-3	3B-05-1-18	Hitachi Barcode Printer	26-A-357
3B-05-2-3	3B-05-2-19	Hitachi Barcode Printer	26-A-358
3B-12-1	3B-12-1	Nomenclature Printer 1	26-A-359
3B-12-2	3B-12-2	Nomenclature Printer 2	26-A-360

Line 4B

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
4B-22-5	4B-22-5	Inspection Table	00-A-244
4B-22-10	4B-22-2	Estane Application	97-A-529
4B-22-12	4B-22-4	Adhesive Application & Paint	96-A-835-S1
4B-22-13	4B-22-13	Adhesive Application & Cleaning Process	96-A-818-S1
4B-99-1	4B-99-1	Vacuum House	01-A-1081
4B-02-5	4B-02-5	Natural Gas Boiler #1 with Propane Backup	24-A-118
4B-02-6	4B-02-6	Natural Gas Boiler with Propane Backup	24-A-119
4B-02-10	4B-02-10	Emergency Generator	24-A-120

General Line – Surface Coating

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
300-148-1	300-148-1	Maintenance Paint Booth	03-A-674

General Line – Combustion Equipment

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
100-101-5	100-101-5	Emergency Generator (Administration Dept.) (1000kW)	10-A-476-S2
200-101-2-1	200-101-2-1	Fire/Security/Safety Bldg Emergency Generator (22 gal/hr)	Exempt
200-211-2	200-211-2	Diesel Generator Cummins	96-A-520-S4
300-148-20	300-148-20	Emergency Generator (Mechanical Dept.) (500kW)	10-A-407

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
500-139-5	500-139-5	Diesel Generator Caterpillar 3512	96-A-521-S4
30-144-3	30-144-3	Steam Boiler (6.21 MMBtu/hr)	96-A-881
30-144-4	30-144-4	F Yard Burnham Diesel Boiler (150 bhp)	Small unit exemption
500-139-1	500-139-1	Zurn Boiler #1	81-A-150-S4
	500-139-2	Zurn Boiler #2	
500-139-4	500-139-4	Diesel Generator, CAT 3512	95-A-521-S2
500-139-6	500-139-6	Emergency Diesel Generator	07-A-1083
500-107-8	500-107-8	Emergency Generator	26-A-091-S1
500-164-2-1	500-164-2-1	Administrative Lift Station Generator (0.0082 kgal/hr)	Exempt
500-214-2-1	500-214-2-1	Gate 3 Emergency Generator (0.0012MMcf/hr)	Exempt
500-215-2	500-215-2	Emergency Generator (17.6 gal/hr)	Exempt

General Line - Miscellaneous

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
500-162-1	500-162-1	Waste Treatment Pit (Water)	Not applicable

General Line – Fugitive Dust Source

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
500-137-2-1	500-137-2-1	Inert Solid Waste Landfill (Fugitive)	Not applicable
IAAAP-2	IAAAP-3	Coal Pile (Fugitive)	
IAAAP-3	IAAAP-4	Unpaved Road (Fugitive)	
IAAAP-6	IAAAP-8	Fly ash (Fugitive)	
IAAAP-7	IAAAP-9	Unstable Propellants/Explosives	

Insignificant Activities Equipment List

EJD = Exemption Justification Document has been prepared to use the small unit exemption

Insignificant Emission Unit Number	Insignificant Emission Unit Description
1-01-4	Mixing Kettle (EJD)
1-10-18	Adhesive Application
1-12-27	C4 Screening (EJD)
1-12-28	C4 Extruder (EJD)
1-12-29	C4 Packaging (EJD)
1-13-8	Drying Oven (electric)
1-13-24	Propellant Vibrating
1-13-25	Propellant Weigh, Acetone Application
1-61-10	Testing Chamber (unknown emissions)
1-61-20	Loctite Application
1-62-2-9-1	Makeup Air Unit (1-62-2-9)
1-62-11	Air Exchange Unit (3 MMBtu/hr, Natural Gas)
1-152-9-1	Storage Tank (600 gallons, fuel oil)
1-99-5	Dust Collection System (EJD)
2-04-15	Inkjet Printer & small solvent hood
2-10-6	Adhesive Application Booth
2-12-14	Propellant Dumping (EJD)
2-13-22	Lacquer/Primer Application (EJD)
2-05-2-23	Adhesive Application (EJD)
2-99-5	Dust Collection System (EJD)
3-05-1-30	Drying Oven
3-05-1-31	Drying Oven
3-05-2-30	Cooling Bath #1
3-05-2-31	Cooling Bath #2
3-08-1	Aluminum Screening Operations (indoor source)
3A-05-2	Wash Down Operations
3A-20-1-4	Ink Stenciling
3A-20-1-10	Assembly Operations
4B-22-18	Adhesive Application (EJD)
4B-22-30	Solvent Drying Oven
FS-1	Fire Testing (fugitive)
F-152-3	F Yard 20,000 gal diesel tank (EJD)
E3946	Diesel Fuel Tank (400 gal)
E4070	Diesel Fuel Tank (225 gal)
E4130	Diesel Fuel Tank (358 gal)
100-152-1	Diesel Fuel Tank (1,000 gal)
100-152-2	Diesel Fuel Tank (360 gal)
200-152-2	Storage Tank (600 gallons)
200-131-3	Emergency Vehicle Vent
300-152-1	Diesel Fuel Tank (1,000 gal)
300-152-2	Diesel Fuel Tank (360 gal)

Insignificant Emission Unit Number	Insignificant Emission Unit Description
300-148-5	Welding Operations
300-148-6	Welding Operations
300-148-11	Motor Oil Tank
300-148-30[(1)]	Portable Generator
400-152-3	10,000 Gallon Diesel Fuel Tank
400-138-1	Bearing Oil Tank (180 gal)
500-139-11	Flyash Receiver
500-152-19	300 Gallon Diesel Fuel Tank
500-152-22	Diesel Fuel Tank (5,000 gal)
500-152-23	Diesel Fuel Tank (460 gal)
500-198-19	Pallet Shredder, Magnetic Nail Remover
600-86-3-1	Chem Lab
CaOH	CAOH Silo Vent
40MM-TS	40 mm Fire Testing
HH-1	Colonel's Heat (Fuel oil boiler 0.14 MMBtu/hr)
BG-2	BG-2 Propane Heater (0.4 MMBtu/hr)
BG-13	BG-13 Propane Heater (0.17 MMBtu/hr)
IAAAP 11	40 mm Unstable Propellants/Explosives Area
L29-1	Foam Densifier
BG-12-1	Can Crusher

[(1)] 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: Iowa Army Ammunition Plant
Permit Number: 04-TV-019R4

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

Permit Duration

The term of this permit is: Five (5) years
Commencing on: 10/8/2026
Ending on: 10/7/2031

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

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

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

Sulfur Dioxide (SO_2): 500 parts per million by volume
Authority for Requirement: 567 IAC 23.3(3)"e"

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

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

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

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

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

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40 CFR Part 60 Subpart A Requirements
This facility is an affected source and these *General Provisions* apply to the facility. The affected units are 1-02-5, 1-02-6, 1-02-7, 1-62-2-9, 3A-02-5, 1-62-9, 3A-50-1-4, 100-101-5, 200-101-2-1. 300-148-20, 500-139-6, 500-164-2-1, 500-215-2, and 500-214-2-1
See Appendix A for a link to the Standard.
Authority for Requirements: 40 CFR Part 60 Subpart A
567 IAC 23.1(2)

40 CFR Part 60 Subpart Db Requirements
This facility is subject to Standards of Performance for *Industrial Commercial Institutional Steam Generating Units.* The affected unit is 1-62-2-9.
See Appendix A for a link to the Standard.
Authority for Requirements: 40 CFR Part 60 Subpart Db
567 IAC 23.1(2)"ccc"

40 CFR Part 60 Subpart Dc Requirements
This facility is subject to Standards of Performance for *Small Industrial Commercial Institutional Steam Generating Units.* The affected units are 1-02-5, 1-02-6, 1-02-7, 3A-02-5.
See Appendix A for a link to the Standard.
Authority for Requirements: 40 CFR Part 60 Subpart Dc
567 IAC 23.1(2)"lll"

40 CFR Part 60 Subpart IIII Requirements
This facility is subject to Standards of Performance for *Stationary Compression Ignition Internal Combustion Engines.* The affected units are 1-62-9, 3A-50-1-4, 4B-02-10, 100-101-5, 200-101-2-1, 300-148-20, 500-139-6, 500-107-8, 500-164-2-1, and 500-215-2.
See Appendix A for a link to the Standard.
Authority for Requirements: 40 CFR Part 60 Subpart IIII
567 IAC 23.1(2)"yyy"

40 CFR Part 60 Subpart JJJJ Requirements
This facility is subject to Standards of Performance for *Stationary Spark Ignition Internal Combustion Engines.* The affected unit is 500-214-2-1.
See Appendix A for a link to the Standard.
Authority for Requirements: 40 CFR Part 60 Subpart JJJJ
567 IAC 23.1(2)"zzz

40 CRF Part 63 Subpart A Requirements
This facility is an affected source and these *General Provisions* apply to the facility. The affected units are 1-02-5, 1-02-6, 1-02-7, 1-62-9, 1-211-1, 3A-50-1-4, 100-101-5, 200-101-2-1, 200-211-2, 300-148-20, 500-139-5, 500-139-4, 500-139-6, 500-164-2-1, 500-214-2-1, 500-215-2, 1-62-2-9, 3A-02-5, 30-144-3, 30-144-4, 500-139-1, and 500-139-2.
See Appendix A for a link to the Standard.
Authority for Requirements: 40 CFR Part 63 Subpart A
567 IAC 23.1(4)

40 CFR Part 63 Subpart ZZZZ Requirements

This facility is subject to the National Emission Standards for Hazardous Air Pollutants for *Stationary Reciprocating Internal Combustion Engines*. The affected units are 1-62-9, 1-211-1, 3A-50-1-4, 4B-02-10, 100-101-5, 200-101-2-1, 200-211-2, 300-148-20, 500-139-5, 500-139-4, 500-139-6, 500-107-8, 500-164-2-1, 500-214-2-1, and 500-215-2.

See Appendix A for a link to the Standard.

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

40 CFR Part 63 Subpart DDDDD Requirements

This facility is subject to the National Emission Standards for Hazardous Air Pollutants for *Industrial, Commercial, And Institutional Boilers*. The affected units are 1-62-2-9, 1-02-5, 1-02-6, 1-02-7, 3A-02-5, 3B-05-1-1, 3B-05-2-1, 4B-02-5, 4B-02-6, 30-144-3, 30-144-4, 500-139-1, and 500-139-2.

See Appendix A for a link to the Standard.

Authority for Requirements: 40 CFR Part 63 Subpart DDDDD

III. Emission Point-Specific Conditions

Facility Name: Iowa Army Ammunition Plant
Permit Number: 04-TV-019R4

Emission Point ID Number: 1-10-32

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
1-10-32	Adhesive Spray Booth	1-10-32: Dry Filters	Liquid Adhesives and Solvent	10 ounces/min	12-A-132

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 40 % (1)
Authority for Requirement: DNR Construction Permit 12-A-132
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.18 lb/hr
Authority for Requirement: DNR Construction Permit 12-A-132

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.18 lb/hr; 0.01 gr/dscf
Authority for Requirement: DNR Construction Permit 12-A-132
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 3.4 tons/yr
Authority for Requirement: DNR Construction Permit 12-A-132

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits

A. The amount of coating material and organic solvent used in the spray booth shall not exceed 850 gallons in any rolling 12-month period.
B. The VOC content of any coating material or organic solvent used in the spray booth shall not exceed 8.0 pounds per gallon.
C. The permittee shall maintain the dry filters in accordance with the manufacturer's specifications and maintenance schedule.

Reporting & Record keeping

A. The permittee shall maintain records on the identification, the VOC content, the single HAP content, and the total HAP content of each coating and organic solvent used in this spray booth.
B. The permittee shall maintain the following monthly records:
   i. The amount of coatings and organic solvent used in the spray booth, gallons; and
   ii. The rolling 12-month total of the amount of coatings and organic solvent used in the spray booth, gallons.
C. The permittee shall maintain records on any maintenance done of the dry filters.

Authority for Requirement: DNR Construction Permit 12-A-132

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 21
Stack Diameter (inches): 18
Stack Exhaust Flow Rate (scfm): 2,100
Stack Temperature (^{o}F): 70
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 12-A-132

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** ☒

Dry Filter Agency Operation and Maintenance Plan

Weekly

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

Record Keeping and Reporting

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

Quality Control

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Numbers: 1-18-6

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
1-18-3	Solvent and Adhesive Application	Explosive Materials	100 lb/hr	96-A-826-S1
1-18-5	Explosive Screening			

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit: 40% [(1)]
Authority for Requirement: DNR Construction Permit 96-A-826-S1
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limit: 1.0 lbs/hr, 0.01 gr/dscf
Authority for Requirement: DNR Construction Permit 96-A-826-S1
567 IAC 23.4(13)

Pollutant: VOC
Emission Limit: 19.5 tons/yr
Authority for Requirement: DNR Construction Permit 96-A-826-S1

Operational Limits & Reporting/Record keeping Requirements

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

A. The owner or operator shall not use more than 4,333 gallons of solvents and/or adhesives in these emission units in any rolling 12-month period. The VOC content of any solvents and/or adhesives used shall not exceed 9 lb/gallon. The owner or operator shall:
   i. On a monthly basis, record the amount of solvents and adhesives, in gallons, used in these emission units;
   ii. On a monthly basis, calculated and record the rolling 12-month total amount of solvents and adhesives, in gallons, used in these emission units; and
   iii. Maintain the Safety Data Sheets (SDS) of all solvents and adhesives used in these emission units.

B. The owner or operator shall not screen more than 15,000 pounds of explosive materials in

these emission units in any rolling 12-month period. On a monthly basis, the owner or operator shall:

i. Record the amount of explosives, in pounds, screened in these emission units; and
ii. Calculate and record the rolling 12-month total amount of explosives, in pounds, screened in these emission units.

Authority for Requirement: DNR Construction Permit 96-A-826-S1

Emission Point Characteristics

The emission points shall conform to the conditions listed below.

Stack Height, (ft, from the ground): 16
Stack Opening, (inches, dia.): 14
Exhaust Flow Rate (scfm): 2,300
Exhaust Temperature (°F): 70
Discharge Style: Vertical, obstructed
Authority for Requirement: DNR Construction Permit 96-A-826-S1

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Numbers: 1-18-7

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
1-18-6	Solvent/Adhesive Application Stations (2)	Solvent/Adhesive	4,333 gal/yr	96-A-827

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: VOC
Emission Limit: 19.5 tons/yr
Authority for Requirement: DNR Construction Permit 96-A-827

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

A. A maximum of 4,333 gallons of material is permitted to be used at this application station, per 12 months (rolled monthly).
B. The maximum VOC content of any material used must be 9 lbs of VOC per gallon of material.
C. Monthly records must be kept which show the maximum VOC content and the quantity of each material used.
   If the quantity of materials used exceeds 4,333 gallons per year, then the permittee must demonstrate that they are in compliance with the VOC emission rate. This must be done by calculating the VOC emission rate using the following, for each material
   1. Quantity used
   2. VOC density
   3. SDS sheets or the equivalent

   The arithmetic and methodology used in calculating the emission rate must be shown.

   All records must be satisfactory for demonstrating compliance with the emission limits and operational limits of this permit.

Authority for Requirement: DNR Construction Permit 96-A-827

Emission Point Characteristics
The emission points shall conform to the conditions listed below.

Stack Height, (ft, from the ground): 20
Stack Opening, (inches, dia.): 8

Exhaust Flow Rate (scfm): 3,200
Exhaust Temperature (°F): 70
Authority for Requirement: DNR Construction Permit 96-A-827

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 1-13-18

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
1-13-18	Propellant Weigh and Fill (Cleaning Station - 2)	Methyl Ethyl Ketone (MEK)	1,500 gal/yr	08-A-331
1-13-19				

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.

No limits at this time.

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

Operating Limits
A. The facility is limited to using MEK at the cleaning station for EU's 1-13-18 and 1-13-19.
B. The facility shall not exceed using greater than 1,500 gallons of MEK per rolling 12-month period.

Reporting and Record keeping Requirements
A. The facility shall maintain on site the SDS for MEK.
B. The facility shall record on a monthly basis the amount of MEK used in the cleaning station for EU's 1-13-18 and 1-13-19.
C. The facility shall after 12 months of operation begin a rolling 12-month total to verify EU's 1-13-18 and 1-13-19 does not exceed the 12 month rolling total.

Authority for Requirement: DNR Construction Permit 08-A-331

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

Stack Height (feet): 18.5
Stack Diameter (inches): 18
Stack Exhaust Flow Rate (scfm): 2,000
Stack Temperature (^{o}F): 70
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 08-A-331

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 1-85-2-10

Associated Equipment

Table 40 MM High Velocity

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EU 1-85-2-10	Varnish Applications (9 Stations)	Varnish	4,200 pieces/hr	10-A-403-S4
EU 1-85-2-11	Ink Jet Process (9 Stations)	Ink		
EU 1-85-2-12	Adhesive Application (3 Stations)	Adhesive		
EU 1-85-2-13	Propellant Weigh and Load (7 Stations)	Propellant		
EU 1-85-2-14	Laser Cutting Operation (1 Station)	Metal Cartridges	864 cartridges/hr	

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: 40% [(1)]
Authority for Requirement: DNR Construction Permit 10-A-403-S4
567C 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit: 0.69 lb/hr
Authority for Requirement: DNR Construction Permit 10-A-403-S4

Pollutant: Particulate Matter (PM)
Emission Limit: 2.06 lb/hr, 0.01 gr/dscf
Authority for Requirement: DNR Construction Permit 10-A-403-S4
567 IAC 23.4(13)

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

A. The VOC content of the material used in the 40 MM High Velocity Process shall not exceed:
   i. 7.0 pounds per gallon of varnish;
   ii. 7.0 pounds per gallon of inks, ink additives, and ink solvents; and
   iii. 8.5 pounds per gallon of adhesive and primer.

B. The HAP content of the material used in the 40 MM High Velocity Process shall not exceed:
    i. 4.0 pounds of Single HAP per gallon of varnish and 5.7 pounds of Total HAP per gallon of varnish.
    ii. The inks, ink additives, ink solvents, and the adhesive and primer shall not contain any HAPs.
    iii. The owner or operator shall maintain on-site a copy of the Safety Data Sheet for each material used in the 40 MM High Velocity Process.
    iv. The owner or operator shall maintain a log of all varnishes, adhesives and primer, inks, ink additives and ink solvents and their respective VOC, Single HAP, and Total HAP contents.
C. The total amount of varnish used in the 40 MM High Velocity Process shall not exceed 4,000 gallons in any 12-month rolling period.
    i. The owner or operator shall record the amount of varnish, in gallons, used in the 40 MM High Velocity Process on a monthly basis.
    ii. The owner or operator shall calculate and record the amount of varnish, in gallons, used in the 40 MM High Velocity Process on a rolling 12-month basis.
D. The combined amount of ink, ink additives, and ink solvents used in the 40 MM High Velocity Process shall not exceed 500 gallons in any 12-month rolling period.
    i. The owner or operator shall record the amount of ink, ink additives, and ink solvents, in gallons, used in the 40 MM High Velocity Process on a monthly basis.
    ii. The owner or operator shall calculate and record the amount of ink, ink additives, and ink solvents, in gallons, used in the 40 MM High Velocity Process on a rolling 12-month basis.
E. The combined amount of adhesive and primer used in the 40 MM High Velocity Process shall not exceed 1,000 gallons in any 12-month rolling period.
    i. The owner or operator shall record the amount of adhesive and primer, in gallons, used in the 40 MM High Velocity Process on a monthly basis.
    ii. The owner or operator shall calculate and record the amount of adhesive and primer, in gallons, used in the 40 MM High Velocity Process on a rolling 12-month basis.
F. The total amount of propellant loaded at the 40 MM High Velocity Process loading stations shall not exceed 36,500 pounds per month.
    i. The owner or operator shall record the amount of propellant, in pounds, loaded at the 40 MM High Velocity Process loading stations on a monthly basis.

Authority for Requirement: DNR Construction Permit 10-A-403-S4

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 27.8
Stack Diameter (inches): 26
Stack Exhaust Flow Rate (scfm): 8,000
Stack Temperature (^{o}F): 68
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 10-A-403-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 24.108(3)

Emission Point ID Number: 1-61-7

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
1-61-18	Surface Coating Operations	1-61/CE 18: Dry Filter	Paint	11.25 gallons/hr	05-A-501

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit: 40%[(1)]
Authority for Requirement: DNR Construction Permit 05-A-501
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limit: 0.01 gr/scf
Authority for Requirement: DNR Construction Permit 05-A-501
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit: 4.9 tons/yr
Authority for Requirement: DNR Construction Permit 05-A-501

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits

A. The paint booth is limited to a usage of 1,500 gallons of VOC / HAP containing material (Paint, Solvent, etc.) per rolling 12-month period.
B. The maximum VOC content of VOC containing material (Paint, Solvent, etc.) used in the paint booth shall not exceed 6.5 pounds per gallon.
C. The maximum HAP content of HAP containing material (paint, Solvent, etc.) used in the paint booth shall not exceed 6.5 pounds per gallon.
D. Maintain dry filters according to manufacturer's specifications and maintenance schedule.

Reporting & Record keeping

A. Record on a monthly basis the amount of VOC / HAP containing material (Paint, Solvent, etc.) used in the paint booth in gallons. Calculate and record rolling 12-month totals.
B. Record the VOC content of VOC containing material (Paint, Solvent, etc.) used in the paint booth in pounds per gallon.
C. Record the HAP content of HAP containing material (Paint, Solvent, etc.) used in the paint booth in pounds per gallon.
D. Retain Safety Data Sheets (SDS) of all materials used in the paint booth.
E. Maintain a record of all inspections / maintenance and any action resulting from the inspection / maintenance of dry filters.

Authority for Requirement: DNR Construction Permit 05-A-501

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 37
Stack Diameter (inches): 24
Stack Exhaust Flow Rate (scfm): 5,350
Stack Temperature (^{o}F): 70
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 05-A-501

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** ☒

Dry Filter Agency Operation and Maintenance Plan

Weekly

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

Record Keeping and Reporting

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

Quality Control

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 1-18-10

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
1-18-19	Surface Coating Operations	1-18/CE1: Dry Filter	Paint	10-fl oz/min	94-A-172

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: 0%
Authority for Requirement: DNR Construction Permit 94-A-172

Pollutant: Particulate Matter (PM)
Emission Limits: 0.01 gr/scf , 0.171 lb/hr, 0.75 tons/yr
Authority for Requirement: DNR Construction Permit 94-A-172
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit: 39.4 tons/yr
Authority for Requirement: DNR Construction Permit 94-A-172

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

Process throughput:
A. The density of the following paint components cannot exceed the following:
   Solids: 4.28 lbs/ gallon of paint
   VOC: 8.14 lbs/ gallon of paint
B. No more than 9,679 gallons of paint may be used per 12 months (rolling total).
C. Only one spray gun is permitted in this booth.
D. The opacity from this stack must be zero percent at all times.

Reporting & Record keeping:
The permittee shall maintain the following monthly records:
A. The identification, the solid and VOC content for every paint used in this booth.
B. The total amount of paint used (gallons).
Authority for Requirement: DNR Construction Permit 94-A-172

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

Stack Height (feet): 27
Stack Diameter (inches): 18
Stack Exhaust Flow Rate (acfm): 2,000
Stack Temperature (^{o}F): Ambient
Discharge Style: Vertical obstructed
Stack Location: Stack is located at production line 1, bay A, building 1-18. Stack is located on the northeast side of the building
Authority for Requirement: DNR Construction Permit 94-A-172

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.

Visible Emissions Monitoring:
The facility shall check the visible emissions weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Visible emissions shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. 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 (>0 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity 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.

Authority for Requirement: 567 IAC 24.108(3)

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

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

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

Dry Filter Agency Operation and Maintenance Plan

Weekly

- Inspect the paint 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.

Record Keeping and Reporting

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

Quality Control

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Numbers: See Table EXPL I

Associated Equipment

EXPL I

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
1-01-1	1-01-1	Ribbon Blender	1-01/CE1: Fabric Filter	Inert Powder	800 lb/hr	89-A-022
1-01-5	1-01-5	Double Cone Blender	1-01/CE3: Scrubber		800 lb/hr	88-A-126
1-01-6	1-01-6	Dust Removal System	1-01/CE4: Fabric Filter		510 lb/hr	88-A-128
1-01-7	1-01-7	Hammermill	1-01/CE5: Fabric Filter		300 lb/hr	88-A-129

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)
The emissions from each emission point described in Table EXPL I shall not exceed the following specified levels.

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

Pollutant: Particulate Matter (PM)
Emission Limit: 0.1 gr/dscf
Authority for Requirement: DNR Construction Permits as specified in Table EXPL I
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

There are no applicable requirements at this time.

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

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

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

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

The following requirements apply to each piece of equipment that is indicated in Table EXPL I as having a fabric filter or scrubber for control equipment.

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 1-10-31

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
1-10-30	Explosive Dumping Station	1-10/CE31: Spray Chamber	Explosive Material (TNT)	3,500 lb/hr	12-A-131-S1
1-10-31	Explosive Dumping Station			3,500 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: 40% [(1)]
Authority for Requirement: DNR Construction Permit 12-A-131-S1
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limit: 1.1 lb/hr; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 12-A-131-S1
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

A. The owner or operator shall operate and maintain the control equipment (1-10/CE31) according to manufacturer's specifications.
B. The owner or operator shall keep records of control equipment (1-10/CE31) inspections and maintenance.

Authority for Requirement: DNR Construction Permit 12-A-131-S1

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

Stack Height (ft, from the ground): 28.5
Stack Diameter (inches, dia.): 9
Stack Exhaust Flow Rate (scfm): 1,300
Stack Temperature (^{o}F): 70
Discharge Style: Vertical obstructed

Authority for Requirement: DNR Construction Permit 12-A-131-S1

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 1-12-20

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
1-12-20	Pressing Operation (2 Pressing Stations)	1-12 CE 20: Wet Scrubber	Explosives Material	200 lb/hr total throughput	11-A-359

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit: 40% [(1)]
Authority for Requirement: DNR Construction Permit 11-A-359
567 IAC 23.3(2)"d"

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

Particulate Matter ($PM_{2.5}$)
Emission Limit: 0.3 lb/hr, 0.01 gr/scf
Authority for Requirement: DNR Construction Permit 11-A-359

Particulate Matter (PM_{10})
Emission Limit: 0.3 lb/hr, 0.01 gr/scf
Authority for Requirement: DNR Construction Permit 11-A-359

Particulate Matter (PM)
Emission Limit: 0.9 lb/hr, 0.03 gr/scf, 0.1 gr/scf
Authority for Requirement: DNR Construction Permit 11-A-359
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements

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

A. The owner or operator shall maintain the control equipment according to manufacturer's specifications and maintenance schedule or per written facility specific operation and maintenance plan.

Authority for Requirement: DNR Construction Permit 11-A-359

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

Stack Height (feet): 43
Stack Diameter (inches): 14
Stack Exhaust Flow Rate (scfm): 3,500
Stack Temperature (^{o}F): Ambient
Discharge Style: Vertical unobstructed
Authority for Requirement: DNR Construction Permit 11-A-359

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 1-12-24

Associated Equipment:

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
1-12-24	Screening Stations (2)	1-12 CE 24: Wet Scrubber	Explosive/Inert Material	200 lb/hr	11-A-358
1-12-25	Dumping Station				

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: 40%[(1)]
Authority for Requirement: DNR Construction Permit 11-A-358
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter ($PM_{2.5}$)
Emission Limit: 0.24 lb/hr, 0.01 gr/scf
Authority for Requirement: DNR Construction Permit 11-A-358

Pollutant: Particulate Matter (PM_{10})
Emission Limit: 0.24 lb/hr, 0.01 gr/scf
Authority for Requirement: DNR Construction Permit 11-A-358

Pollutant: Particulate Matter (PM)
Emission Limit: 0.72 lb/hr, 0.03 gr/scf, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 11-A-358
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

A. The owner or operator shall maintain the control equipment according to manufacturer's specifications and maintenance schedule or per written facility specific operation and maintenance plan.

Authority for Requirement: DNR Construction Permit 11-A-358

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

Stack Height (feet): 45
Stack Diameter (inches): 16
Stack Exhaust Flow Rate (scfm): 2,800
Stack Temperature (^{o}F): Ambient
Discharge Style: Vertical unobstructed
Authority for Requirement: DNR Construction Permit 11-A-358

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 1-13-15

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
1-13-15	Propellant Handling & Loading (4 Stations)	1-13-15: Vacuum System with Filter	Explosive/Inert Material	1,400 lb/hr each	01-A-951-S4

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: 40 %[(1)]
Authority for Requirement: DNR Construction Permit 01-A-951-S4
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter
Emission Limit: 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 01-A-951-S4
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

A. Only two (2) of the four (4) stations shall operate simultaneously
Authority for Requirement: DNR Construction Permit 01-A-951-S4

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

Stack Height (feet): 4
Stack Diameter (inches): 4
Stack Exhaust Flow Rate (scfm): 150
Stack Temperature (^{o}F): 70
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 01-A-951-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** ☒

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 1-13-22

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
1-13-22	Propellant Weighing Station and Laser Jet Markers	Propellant, Inks, Solvents	4 Weighing Stations – 225 lb/hr combined, 2 Laser Jet Markets limited to 1,025 gal /yr	10-A-031-S3
1-13-23				

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit: 40 %[(1)]
Authority for Requirement: DNR Construction Permit 10-A-031-S3
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit: 0.11 lb/hr
Authority for Requirement: DNR Construction Permit 10-A-031-S3

Pollutant: Particulate Matter (PM)
Emission Limit: 0.11 lb/hr; 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a"
DNR Construction Permit 10-A-031-S3

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit: 4.0 tons/yr
Authority for Requirement: DNR Construction Permit 10-A-031-S3

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits

A. No more than 1,025 gallons of ink, ink additive, ink cleaner and MEK shall be used in these emission units.
B. The maximum VOC content of ink, ink additive, ink cleaner and MEK used in these emission units shall not exceed 7.8 lb/gal.

C. The materials utilized in this emission unit shall not contain HAPs.

Reporting & Record keeping

A. The permittee shall maintain records on the identification, the VOC content, and the HAP content of each ink, ink additive, ink cleaner and solvent used in these emission units.
B. The permittee shall record the monthly usage of ink, ink additive, ink cleaner, and MEK in these emission units.
C. The permittee shall calculate the combined 12-month rolling total of ink, ink additive, ink cleaner, and MEK in these emission units

Authority for Requirement: DNR Construction Permit 10-A-031-S3

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 18.5
Stack Diameter (inches): 12
Stack Exhaust Flow Rate (scfm): 1,200
Stack Temperature (^{o}F): 70
Discharge Style: Vertical unobstructed
Authority for Requirement: DNR Construction Permit 10-A-031-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 24.108(3)

Emission Point ID Number: 1-01-3

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
1-01-3	Processing High Shear Mixer	1-01/CE2: Vapor Recovery	MEK, Inert Powder	5.35 lb/hr	88-A-127

Applicable Requirements

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

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

Pollutant: Particulate Matter
Emission Limit: 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 88-A-127
567 IAC 23.3(2)"a"

Pollutant: Methyl Ethyl Ketone
Emission Limit: 5.35 lb/hr
Authority for Requirement: DNR Construction Permit 88-A-127

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

A. The amount of methyl ethyl ketone (MEK) used in the high shear mixer shall not exceed 16,000 pounds per rolling 12-month year.
B. Maintain a record of the rolling 12-month total of methyl ethyl ketone (MEK) used in the high shear mixer (pounds).

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 1-61-23

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity*	Construction Permit
1-61-21	Varnish Application [two (2) stations]	1-61-23: Dry Filter	Varnish	500 gallons per 12-month rolling	25-A-097
1-61-23	Propellant Weigh and Load [two (2) stations]		Explosive / Inert Material	15 lb per day	
1-61-24	Adhesive Application [by machine]		Adhesive	450 gallons per 12-month rolling	
1-61-26	Ink Jet Process [two (2) stations]		Ink Additive and Solvent	Varied max capacity	
1-61-27	Sealant Station		Sealant	Hand Applied	

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40%[(1)]
Authority for Requirement: DNR Construction Permit 25-A-097
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.01 gr/dscf
Authority for Requirement: DNR Construction Permit 25-A-097
567 IAC 23.4(13)

Operational Limits & Reporting/Record keeping Requirements

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

A. Emission Unit 1-61-23 shall be limited to a total Propellant loading limit of 15 pound per day.
   i. The owner or operator shall record the daily (24 hour) usage of propellant;
   ii. The owner or operator shall calculate the 24-hour rolling total for the use of propellant.
B. The materials used at EU 1-61-24 and at EU 1-61-26 (i.e, adhesive and ink, respectively) shall not contain any HAPs.

C. The total quantity of materials used in these emission units shall not exceed the values specified in the table below, in per twelve-month rolling period.

Emission Unit ID	Material Type	Usage Limit (gallons per twelve-month rolling period)	Content Limit (pounds per gallon unless specified)		
			VOC	SHAP	THAP
1-61-21	Varnish	500	5.70	4.00	5.70
1-61-24	Adhesive	450	8.50	0.00	0.00
1-61-26	Ink	500	7.00	0.00	0.00
1-61-27	Sealant (polysulfide curative)	200	7.00	10.00	16.00

On a monthly basis, the owner or operator shall:

i. Record the quantity of each type of material used, in gallons, over the previous month; and

ii. Calculate and record the quantity of each type of material used, in gallons, over the previous twelve months.

iii. For the purposes of tracking material usage, all materials may be considered used on the day the materials are delivered to the facility or to the emission units.

D. A log of all varnishes, adhesives, inks and sealants used and their respective VOC, individual HAP, and total HAP contents.

E. Maintain copies of Safety Data Sheets (SDS) or other vendor's documentation showing the VOC content, the SHAP content and the THAP content of all materials used in the emission units listed in the table above.

F. The dry filter(s) used for these emission units shall be operated and maintained in accordance with the recommendations of the manufacturer.

1. The owner or operator shall inspect the system quarterly for conditions that reduce the operating efficiency of the collection system.
    a. This inspection shall include a visual inspection of the condition of the filter material.
    b. The owner or operator shall maintain a record of all inspections and maintenance and any action resulting from the inspection and maintenance of the dry filter(s).

Authority for Requirement: DNR Construction Permit 25-A-097

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft., from the ground): 34
Stack Opening, (inches, dia.): 13
Exhaust Flow Rate (scfm): 2,300
Exhaust Temperature (°F): 70 (Ambient)
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 25-A-097

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Dry Filter Agency Operation and Maintenance Plan

Weekly

- Inspect the paint 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.

Record Keeping and Reporting

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

Quality Control

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 1-65-5-1

Associated Equipment

Explosive Processing I

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
1-65-5-1	1-65-5-3	Explosives Screening Table	1-65-5/CE3: Fabric Filter	Explosive Material	53 lb/hr each	03-A-505-S1
	1-65-5-4	Explosives Weighing Table				

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40%[(1)]
Authority for Requirement: DNR Construction Permit 03-A-505-S1
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.39 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 03-A-505-S1
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements

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

A. The owner or operator shall maintain the Baghouse (CE 1-65-5/CE1) according to the manufacturer's specifications and maintenance schedule. The owner or operator shall maintain a log of all maintenance and inspection activities performed on the Baghouse (CE 1-65-5/CE1). This log shall include, but is not necessarily limited to:
   i. The date and time any inspection and/or maintenance was performed on the Baghouse (CE 1-65-5/CE1);
   ii. Any issues identified during the inspection and the date each issue was resolved;
   iii. Any issues identified during the maintenance activities and the date each issue was resolved; and
   iv. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 03-A-505-S1

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

Stack Height, (ft., from the ground): 30
Stack Opening, (inches, dia.): 18
Exhaust Flow Rate (scfm): 1,500
Exhaust Temperature (°F): 70
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 03-A-505-S1

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 1-62-2-5

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
1-62-2-9	Natural Gas Keystone Boiler	1-62-2/CE9: Flue Gas Recirculation	Natural Gas	126.7 MMbtu/hr	04-A-311-S5

Continuous Emissions Monitors ID Numbers: 01-62-2/ME 9 – NOx and O_2 (or CO_2)

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit: 40% (1)
Authority for Requirement: DNR Construction Permit 04-A-311-S5
567C 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit: 0.05 lb/MMBtu, 13.87 tpy
Authority for Requirement: DNR Construction Permit 04-A-311-S5

Pollutant: Particulate Matter (PM)
Emission Limit: 0.05 lb/MMBtu, 13.87 tpy
Authority for Requirement: DNR Construction Permit 04-A-311-S5

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit: 500 ppm_v
Authority for Requirement: DNR Construction Permit 04-A-311-S5
567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit: 0.10 lb/MMBtu (2), 27.7 tpy
Authority for Requirement: DNR Construction Permit 04-A-311-S5
567 IAC 23.1(2)"ccc"
40 CFR 60 Subpart Db

(1)Limit is based on a 30-day rolling average of NOx emissions.

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits

A. The boiler (EU 1-62-2-9) shall be limited to firing natural gas only. Prior to firing any other fuels in the boiler, the owner or operator shall obtain a modified construction permit.
B. The total heat input for the boiler (EU 1-62-2-9) shall not exceed 554,858 million BTUs (MMBtu) per any rolling 12-month period. The annual capacity factor of the boiler is limited to 50% by this operating limit.

Reporting & Record keeping

A. The owner or operator shall maintain the following monthly records:
    i. The amount of natural gas (cubic feet) burned in the boiler;
    ii. The heat input to the boiler from burning natural gas. The units shall be in million BTUs. To determine the heat input from burning natural gas, the amount of gas burned (scf) shall be multiplied by the heat content of the natural gas and then divided by one million. The heat content of the natural gas shall be tracked by the owner or operator.; and
    iii. The rolling 12-month total of the heat input to the boiler in million BTUs.
B. The owner or operator shall maintain the following records each day that the boiler operates:
    i. The calendar date;
    ii. The average hourly NOx emission rates, expressed as NO_2, in lbs/MMBtu heat input;
    iii. The 30-day average NOx emission rate (lbs/MMBtu heat input) calculated at the end of each day based on the emission rates from the preceding 30 days that the boiler operated;
    iv. Identification of any day when the calculated 30-day average NOx emission rates are in excess of the NOx emission standard of 0.10 lb/MMBtu with the reasons for such excess emissions as well as a description of corrective actions taken;
    v. Identification of any day for which the NOx data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken;
    vi. Identification of the times when NOx emissions data have been excluded from the calculation of average emission rates and the reasons for excluding data;
    vii. Identification of the "F" factor used for calculations, methods of determination, and type of fuel combusted;
    viii. Identification of the times when the pollutant concentration exceeded the full span of the CEMS;
    ix. Description of any modifications to the CEMS that could affect the ability of the CEMS to comply with Performance Specification 2 or 3; and
    x. Results of daily CEMS drift tests and quarterly accuracy assessments as required under Appendix F, Procedure 1 of Part 60. (40 CFR §60.49b(g))
C. The owner or operator shall submit excess emission reports for exceedances of the NOx standard that occurred during any calendar quarter. Excess emissions are defined as any calculated 30-day rolling average where the NOx emission rate exceeded the limit of 0.10 lb/MMBtu heat input. The reports shall be submitted no later than 30 days from the end of

the calendar quarter. (40 CFR §60.49b(h)(2) and 40 CFR §60.49b(h)(4))

D. The owner or operator shall submit reports containing the information recorded under C above. These reports shall cover each calendar quarter. The reports shall be submitted no later than 30 days from the end of the reporting period. (40 CFR §60.49b(i))

Authority for Requirement: DNR Construction Permit 04-A-311-S5
40 CFR 60 Subpart Db
567 IAC 23.1(2)"ccc"

NSPS and NESHAP Applicability

NSPS:
This emission unit is subject to Subparts A (General Provisions, 40 CFR Part 60.1 – 40 CFR Part 60.19) and Db (Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units 40 CFR Part 60.40b – 40 CFR Part 60.49b) of the New Source Performance Standards (NSPS).

Authority for Requirement: DNR Construction Permit 04-A-311-S5
40 CFR Part 60 Subpart Db
567 IAC 23.1(2)"ccc"

NESHAP:
This equipment is subject to the following federal regulation: 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

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

Stack Height (ft, from the ground): 50
Stack Opening (inches, dia.): 36
Stack Exhaust Flow Rate (scfm): 23,530
Stack Temperature (^{o}F): 350
Discharge Style: Vertical unobstructed
Authority for Requirement: DNR Construction Permit 04-A-311-S5

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

Continuous Emissions Monitoring:

A. The owner or operator shall install, calibrate, maintain, and operate a continuous emissions monitoring system (CEMS) for measuring NOx and O_2 (or CO_2) emissions discharged into the atmosphere and shall record the output of the system.
   i. The CEMS required shall be operated and data record during all periods of operation of the boiler except for CEMS breakdown and repairs. Data is recorded during calibration checks, and zero and span adjustments.
   ii. The 1-hour average NOx emission rates measured by the CEMS shall be expressed in lb/MMBtu heat input and shall be used to calculate the average NOx emission rate. The 1-hour averages shall be calculated under the data points required under 40 CFR §60.13(h)(2).
   iii. The procedures under 40 CFR §60.13 shall be followed for installation, evaluation, and operation of the CEMS.
      a. The NOx span value shall be 500 ppm.
      b. The CEMS shall be operated in accordance with the applicable procedures under Performance Specifications 2 and 3 of 40 CFR Part 60, Appendix B.
      c. Quarterly accuracy determinations and daily calibration drift tests shall be performed in accordance with Procedure 1 of 40 CFR Part 60, Appendix F.
   iv. When NOx emissions data are not obtained because of CEMS breakdowns, repairs, calibration checks and zero and span adjustments, emission data will be obtained by using standby monitoring systems, Method 7 or 7A of Appendix A of this part or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each day that the boiler operates and for at least 22 days out of 30 successive days that the boiler operates. (40 CFR §60.48b(b) – 40 CFR §60.48b(f)).

Authority for Requirement – DNR Construction Permit 04-A-311-S5
40 CFR Part 60 Subpart Db
567 IAC 23.1(2)"ccc"

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 1-62-9

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
1-62-9	Emergency Generator	Diesel	550 bhp	10-A-197

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: 40% (1)
Authority for Requirement: DNR Construction Permit 10-A-197
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limit: 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 10-A-197
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit: 2.5 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(3)"b"(2)

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

Operating Limits
1. The maximum number of hours of operation of this unit shall not exceed 500 hours per twelve (12) month period, rolled monthly.
2. This unit shall have a non-resettable hour meter installed as required by 40 CFR §60.4209(a).
3. The fuel used in this unit shall meet the requirements of 40 CFR §60.4207

Reporting & Record keeping
1. The owner/operator of this unit shall keep a record of each time the engine is used and the reason for the use as required by 40 CFR §60.4214(b).
2. The owner/operator shall record the number of hours this unit operates for each use of the unit.
3. At the end of each month, calculate and record the number of hours that this unit operated over

the previous month.
4. At the end of each month, calculate and record the number of hours this unit operated over the previous twelve (12) months.
5. Documentation from the fuel supplier that the fuel received during each shipment meets the required specifications of 40 CFR §60.4207.

Authority for Requirement: DNR Construction Permit 10-A-197

NESHAP/NSPS

NESHAP:
The emergency engine is subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590(a)(2)(i) this emergency engine, located at a major source, is a new stationary RICE as it was constructed on or after December 19, 2002.

According to 40 CFR 63.6590(b)(1)(i), a new emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions is not subject to the requirements of 40 CFR 63 Subpart ZZZZ and Subpart A except for initial notification requirements of 40 CFR 63.6645(f).

Authority for Requirement: DNR Construction Permit 10-A-197
40 CFR Part 63, Subpart ZZZZ
567 IAC 23.1(4)"cz"

NSPS:
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	225 ≤ kW < 450 (302 ≤ HP < 604)	2007+	4.0 (3.0)	3.5 (2.6)	0.20 (0.15)	(1)	(2)

(1) Exhaust opacity must not exceed: 20 percent during the acceleration mode; 15 percent during the lugging mode; and 50 percent during the peaks in either the acceleration or lugging modes.
(2) 40 CFR 89.112 and 40 CFR 89.113.

Fuel Requirements:
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 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.
4.

Maximum Engine Power	Initial Test	Subsequent Test
500 < HP	Within 1 year of engine startup, or non-permitted action (1)	Every 8,760 hours or 3 years, whichever comes first

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

Operating and Recordkeeping Requirements

1. If your emergency engine does not meet the standards applicable to non-emergency engines, you must install a non-resettable hour meter prior to startup of the engine (40 CFR 40.4209(a)).
2. There is no time limit on use for emergency situations. 40 CFR 60.4211(f)(1)
3. The engine may be operated for the purpose of maintenance checks and readiness testing, emergency demand response, and deviation of voltage or frequency for a maximum of 100 hours/year. See 40 CFR 60.4211(f)(2) for more information.
4. The engine may be operated for up to 50 hours per year for non-emergency purposes. This operating time cannot be used for peak shaving or non-emergency demand response or to generate income for the facility (e.g. supplying power to the grid) and should be included in the total of 100 hours allowed for maintenance checks and readiness testing. See 40 CFR 60.4211(f)(3) for more information.
5. If your emergency engine has a maximum engine power of more than 100 HP and operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 40 CFR 60.4211(f)(2)(ii) and (iii) or operates for the purposes specified in 40 CFR 60.4211(f)(3)(i), you must submit an annual report according to the requirements in 40 CFR 60.4214(d)(1) through (3). See 40 CFR 60.4214(d) for more information.

Authority for Requirement: DNR Construction Permit 10-A-197

40 CFR Part 60, Subpart IIII
567 IAC 23.1(2)"yyy"

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

Stack Height (feet): 13.5
Stack Diameter (inches): 8.0
Stack Exhaust Flow Rate (scfm): 1,150
Stack Temperature (^{o}F): 963
Discharge Style: Vertical unobstructed
Authority for Requirement: DNR Construction Permit 10-A-197

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 1-211-1

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
1-211-1	Diesel Generator	Diesel Fuel	470 hp	97-A-524

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit: 40%[(1)]
Authority for Requirement: DNR Construction Permit 97-A-524
567 IAC 23.3(2)"d"

[(1)] If visible emissions are observed other than startup, shutdown, or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

Pollutant: Particulate Matter (PM_{10})
Emission Limit: 1.2 lb/hr
Authority for Requirement: DNR Construction Permit 97-A-524

Pollutant: Particulate Matter (PM)
Emission Limit: 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 97-A-524
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit: 2.5 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(3)"b"(2)

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit: 0.6 lb/hr
Authority for Requirement: DNR Construction Permit 97-A-524

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits

1. The operation of the generator administered under DNR permit 97-A-524 shall not exceed 1,000 hours per rolling twelve-month period.

2. The sulfur content of diesel fuel used in the generator administered under DNR permit 97-A-524 shall not exceed 0.05 weight percent.

Reporting & Record keeping

1. The permit holder shall maintain records on the premises to show the twelve-month rolling total hours of operation of the generator administered under DNR permit 97-A-524.
2. The permit holder shall maintain records on the premises to show the supplier certification of the sulfur content of diesel fuel used in the generator administered under DNR permit 97-A-524.

Authority for Requirement: DNR Construction Permit 97-A-524

NESHAP:

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

Compliance Date

Per 63.6595(a)(1) you must comply with the provisions of Subpart ZZZZ that are applicable by May 3, 2013.

Fuel Requirements

No requirements except (beginning January 1, 2015) if you own or operate an existing emergency compression ignition stationary engine with a site rating of more than 100 bhp and a displacement of less than 30 liters per cylinder that uses diesel fuel and operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 40 CFR 63.6640(f)(2)(ii) and (iii), you must use diesel fuel that meets the requirements in 40 CFR 1090.305 for nonroad diesel fuel. Those requirements include 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 63.6604(b)

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

1. Change oil and filter every 500 hours of operation or within 1 year + 30 days, whichever comes first. (See 63.6625(i) for the oil analysis option to extend time frame of requirements.)
2. Inspect air cleaner every 1000 hours of operation or within 1 year + 30 days, whichever comes first, and replace as necessary.
3. Inspect all hoses and belts every 500 hours of operation or 1 year + 30 days , whichever comes first, and replace as necessary.
4. Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
5. Install a non-resettable hour meter if one is not already installed.

6. Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

Operating Limits 40 CFR 63.6640(f)

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

Recordkeeping Requirements 40 CFR 63.6655

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

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

1. An initial notification is not required per 40 CFR 63.6645(a)(5).
2. A report may be required for failure to perform the work practice requirements on the schedule required in Table 2c. (See Footnote 1 of Table 2c for more information.)
3. If you own or operate an emergency stationary RICE with a site rating of more than 100 bhp that operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 40 CFR 63.6640(f)(2)(ii) and (iii), you must submit an annual report. See 40 CFR 63.6650(h) for additional information.

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

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 9.5
Stack Diameter (inches): 8.04
Stack Exhaust Flow Rate (scfm): 6,561
Stack Temperature (^{o}F): 998
Discharge Style: Vertical
Authority for Requirement: DNR Construction Permit 97-A-524

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 1-02-5, 1-02-6, 1-02-7 (Boilers)

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
1-02-5	1-02-5	Boiler	1-02/CE5: Low NOx Burner w/ Flue Gas Recirculation	Duel Fuel – Propane and Natural Gas	20.267 MMBtu/hr Natural Gas (17,890 lb/hr) 20.275 MMBtu/hr Propane Each	21-A-079
1-02-6	1-02-6	Boiler	1-02/CE6: Low NOx Burner w/ Flue Gas Recirculation			21-A-080
1-02-7	1-02-7	Boiler	1-02/CE7: Low NOx Burner w/ Flue Gas Recirculation			21-A-081

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: 40% (1)
Authority for Requirement: DNR Construction Permit 21-A-079, 21-A-080, 21-A-081
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limit: 0.23 lb/hr, 0.6 lb/MMBtu
Authority for Requirement: DNR Construction Permit 21-A-079, 21-A-080, 21-A-081
567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit: 500 ppmv
Authority for Requirement: DNR Construction Permit 21-A-079, 21-A-080, 21-A-081
567 IAC 23.3(3)"e"

Operational Limits & Reporting/Record keeping Requirements

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

A. Boilers (EU 1-02-5, EU 1-02-6, and EU 1-02-7) is limited to firing on natural gas and liquefied propane gas (LPG).

B.
   1. Except as provided under paragraphs B(2) and B(3) of this section, the owner or operator of each affected facility shall record and maintain records of the amount of each fuel combusted during each operating day.
   2. As an alternative to meeting the requirements of paragraph B(1) of this section, the owner or operator of an affected facility that combusts only natural gas, wood, fuels using fuel certification in 40 CFR 60.48c(f) to demonstrate compliance with the SO2 standard, fuels not subject to an emissions standard (excluding opacity), or a mixture of these fuels may elect to record and maintain records of the amount of each fuel combusted during each calendar month.
   3. As an alternative to meeting the requirements of paragraph B(1) of this section, the owner or operator of an affected facility or multiple affected facilities located on a contiguous property unit where the only fuels combusted in any steam generating unit (including steam generating units not subject to this subpart) at that property are natural gas, wood, distillate oil meeting the most current requirements in 40 CFR 60.42c to use fuel certification to demonstrate compliance with the SO2 standard, and/or fuels, excluding coal and residual oil, not subject to an emissions standard (excluding opacity) may elect to record and maintain records of the total amount of each steam generating unit fuel delivered to that property during each calendar month.

C. The owner/operator shall inspect the burner during each boiler tune-up. The burner shall be cleaned and any components shall be replaced as necessary.

D. The owner/operator shall inspect the flame pattern in the boiler during each boiler tune-up. The burner shall be adjusted consistent with the manufacturer's specifications to optimize the flame pattern as necessary.

E. The owner/operator shall inspect the system controlling air-to-fuel ratio in the boiler during each boiler tune-up.

Authority for Requirement: DNR Construction Permit 21-A-079, 21-A-080, 21-A-081
40 CFR Part 60 Subpart Dc
567 IAC 23.1(2)"lll"

NSPS and NESHAP Applicability

NSPS:
This emission unit is subject to Subparts A (General Provisions, 40 CFR Part 60.1 – 40 CFR Part 60.19) and Dc (Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units 40 CFR Part 60.40c – 40 CFR Part 60.49c) of the New Source Performance Standards (NSPS).

Authority for Requirement: DNR Construction Permit 21-A-079, 21-A-080, 21-A-081
40 CFR Part 60 Subpart Dc
567 IAC 23.1(2)"lll"

NESHAP:
This equipment is subject to the following federal regulation: 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

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

Stack Height (ft, from the ground): 20
Stack Opening (inches, dia.): 24
Stack Exhaust Flow Rate (scfm): 3,976
Stack Temperature (^{o}F): 394
Discharge Style: Vertical unobstructed
Authority for Requirement: DNR Construction Permit 21-A-079, 21-A-080, 21-A-081

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: Vents Internally

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
2-04-25	Adhesive Station	Adhesive	0.09 gallons/hr	04-A-855

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: 3.55 tons/yr
Authority for Requirement: DNR Construction Permit 04-A-855

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

Operational Limits
A. The adhesive station is limited to a maximum of 788 gallons of adhesive material per rolling 12-month period.
B. The maximum VOC content of the adhesive used in this emission unit shall not exceed 9.0 pounds of VOC per gallon.

Authority for Requirement: DNR Construction Permit 04-A-855

Reporting & Record keeping
A. Record on a month basis, the amount of adhesive material used in the affected emission unit, in gallons. Calculate and record 12-month rolling totals for material usage.
B. Record the VOC content of the adhesive material used in the affected emission unit, in pounds per gallon.
C. Retain Safety and Data Sheets (SDS) of all materials used in the adhesive station.

Authority for Requirement: DNR Construction Permit 04-A-855

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 2-04-25

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
2-04-05	Adhesive Oven (Steam)	VOC Emissions	0.09 gallons/hr	04-A-856

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)
The emissions from this emission point have been accounted for in the material usage restriction for the adhesive station.

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

Stack Height (feet): 24
Stack Diameter (inches): 8
Stack Exhaust Flow Rate (scfm): 500
Stack Temperature (^{o}F): Ambient
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 04-A-856

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 2-04-36

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
2-04-1	Oven (Steam heated) - Cleaning Station	Solvent	0.09 gal/hr	04-A-525
2-04-2				
2-04-3				

Applicable Requirements

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

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

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

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

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits

A. The facility shall not use more than 788 gallons of VOC-containing cleaning materials in the cleaning station associated with this permit per twelve-month rolling period.
B. The maximum VOC content of any material used in the cleaning station associated with this permit shall be 6.5 pounds per gallon.

Reporting & Record keeping

A. The facility shall record monthly material usage (units of gal/month) of all VOC-containing materials used in the cleaning station associated with this permit. During the initial 12 months of operation, cumulative material usage shall be determined for each month of operation. After the initial 12 months of operation, annual material usage shall be determined on a 12 month rolling basis, for each month of operation.
B. The facility shall record the VOC content of all VOC-containing material used in the cleaning station associated with this permit.
C. The SDS of all materials used in the emission units associated with this permit shall be kept on-site and available for inspection by the DNR.

Authority for Requirement: DNR Construction Permit 04-A-525

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

Stack Height (feet): 26
Stack Diameter (inches): 16
Stack Exhaust Flow Rate (scfm): 5,000
Stack Temperature (°F): Ambient
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 04-A-525

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 2-12-2

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
2-12-2	Rework Bay and Cleaning Operations	Paint or Solvent	100 gal/yr	01-A-1253

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: 40% (1)
Authority for Requirement: DNR Construction Permit 01-A-1253
567 IAC 23.3(2)"d"

(1) 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 (PM)
Emission Limit: 0.01 gr/dscf
Authority for Requirement: 567 IAC 23.4(13)

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

There are no operational limits at this time.

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

Stack Height (feet): 31
Stack Diameter (inches): 11
Stack Exhaust Flow Rate (scfm): 1,500
Stack Temperature (^{o}F): 70
Discharge Style: Vertical obstructed
Authority for Requirement: DNR Construction Permit 01-A-1253

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

shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 2-13-8 & 2-13-9

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
2-13-8	2-13-8	Clean & Prime Warheads (Wipe & Brush Application)	Primer Zinc Chromate, Mold Release Mix, Curing Agent, Alcohol	6 gal/day	03-A-562-S1
	2-13-9			6 gal/day	
2-13-9	2-13-10	Clean & Prime Sabots		6 gal/day	03-A-563-S1
	2-13-11			6 gal/day	

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.

None at this time.

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

A. Total combined material usage (e.g. coatings and solvent) from the Clean and Prime Warheads process for emission units EU 2-13-8 through 2-13-11 shall not exceed 2,190 gallons in any rolling 12-month period. The maximum VOC content of any material used in the Clean and Prime Warheads process (EU 2-13-8 through 2-13-11) shall not exceed 6.88 pounds per gallon, as applied. The maximum individual HAP content of any material used in the Clean and Prime Warheads process (EU 2-13-8 through 2-13-11) shall not exceed 4.2 pounds per gallon. On a monthly basis, the owner or operator shall:
    1. Record the total combined amount of material used in gallons during the Clean and Prime Warheads process for emission units EU 2-13-8 through 2-13-11 during the previous month.
    2. Calculate and record the 12 month rolling total of the total combined amount of material used in gallons during the Clean and Prime Warheads process for emission units EU 2-13-8 through 2-13-11 during the previous month.
B. The permit holder, owner or operator of the facility shall maintain manufacturer/vendor provided information (i.e., Safety Data Sheets (SDS), technical data sheets, etc.) of all materials used in the Clean and Prime Warheads process (EU 2-13-8 through 2-13-11) which clearly indicates the VOC and HAP content of the material in pounds per gallon.

Authority for Requirement: DNR Construction Permits 03-A-562-S1, 03-A-563-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Emission Point	Stack Height (ft)	Discharge Style	Stack Opening (inches, dia)	Exhaust Flow Rate (scfm)	Exhaust Temp. (ºF)	Construction Permit
2-13-8	23.5	Vertical unobstructed	8	1,000	70	03-A-562-S1
2-13-9	35.5	Vertical unobstructed	26	5,600	70	03-A-563-S1

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 2-13-10

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
2-13-14	Clean & Prime Operations	Coating, Solvents, Primers	1,095 gal/yr	03-A-564
2-13-15	Clean & Prime Operations			

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit: 40% [(1)]
Authority for Requirement: DNR Construction Permit 03-A-564
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limit: 0.01 gr/scf
Authority for Requirement: DNR Construction Permit 03-A-564
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit: 3.76 tons/yr
Authority for Requirement: DNR Construction Permit 03-A-564

Pollutant: Single HAP
Emission Limit: 2.29 tons/yr
Authority for Requirement: DNR Construction Permit 03-A-564

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits

A. Total material usage (e.g. coatings and solvent) shall not exceed 1,095 gallons in any rolling 12-month period.
B. The amount of material applied by spraying (e.g. aerosol) shall not exceed 100 gallons in any 12-month period.

C. The maximum VOC content of any material used shall not exceed 6.88 pounds per gallon, as applied.
D. The maximum individual HAP content of any material used shall not exceed 4.2 lbs per gallon.

Reporting & Record keeping

A. The identification, the VOC content and the HAP content of any material applied.
B. The total amount of material used (gallons). The permittee shall keep a separate monthly record of the amount of coatings applied by spraying.
C. The rolling 12-month total of the amount of material used (gallons). The permittee shall keep a separate record of the rolling 12-month total of the amount of coatings applied by spraying.

Authority for Requirement: DNR Construction Permit 03-A-564

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 20
Stack Diameter (inches): 15
Exhaust Flow Rate (scfm): 1,200
Exhaust Temperature (^{o}F): 70
Discharge Style: Vertical unobstructed
Authority for Requirement: DNR Construction Permit 03-A-564

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Numbers: See Table COAT I

Associated Equipment

Table: COAT I

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
2-05-2-1	2-05-2-4	Surface Coating	2-05-2/CE1	Paint	10 oz/min	80-A-030
2-10-17	2-10-1	Surface Coating	2-10/CE1	Paint	10 oz/min	90-A-141
2-10-24	2-10-14	Surface Coating	2-10/CE3	Paint	0.033 gal/hr	84-A-081-S1
	2-10-15	Inkjet Printer		Ink	1.5 L/day	
2-12-10	2-12-9	Surface Coating	2-12/CE3	Paint	10 oz/min	84-A-085
2-12-11	2-12-10	Surface Coating	2-12/CE4	Paint	10 oz/min	84-A-084

*These emission units are controlled by dry filters.

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)
The emissions from each emission point described in Table COAT I shall not exceed the following specified levels.

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

Pollutant: Particulate Matter (PM)
Emission Limit: 0.01 gr/scf
Authority for Requirement: DNR Construction Permits Specified in Table COAT I
567 IAC 23.4(13)

Additional Limits for EP 2-10-24:

Pollutant: Particulate Matter (PM)
Emission Limit: 0.04 lb/hr
Authority for Requirement: DNR Construction Permit 84-A-081-S1

Pollutant: VOC
Emission Limit: 0.22 lb/hr
Authority for Requirement: DNR Construction Permit 84-A-081-S1

Operational Limits & Reporting/Record keeping Requirements

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

Requirements for EP 2-10-24 Only:

A. The solids content of the materials used in the Surface Coating Booth (EU 2-10-14) shall not exceed 1.36 pounds per gallon. The VOC content of the materials used in the Surface Coating Booth (EU 2-10-14) shall not exceed 3.09 pounds per gallon. The HAP content of the materials used in the Surface Coating Booth (EU 2-10-14) shall not exceed 1.00 pounds per gallon. The owner or operator shall retain the Safety Data Sheets (SDS) of each material used in the Surface Coating Booth (EU 2-10-14).
B. The VOC content of the materials used in the Inkjet Printer (EU 2-10-15) shall not exceed 7.00 pounds per gallon. The HAP content of the materials used in the Inkjet Printer (EU 2-10-15) shall not exceed 7.00 pounds per gallon. The owner or operator shall retain the Safety Data Sheets (SDS) of each material used in the Inkjet Printer (EU 2-10-15).
C. The owner or operator shall maintain the Dry Filter (2-10/CE3) according to the manufacturer's specifications and maintenance schedule. The owner or operator shall maintain a log of all maintenance and inspection activities performed on the Dry Filter (2-10/CE3). This log shall include, but is not necessarily limited to:
    1. The date and time any inspection and/or maintenance was performed on the Dry Filter (2-10/CE3);
    2. Any issues identified during the inspection and the date each issue was resolved;
    3. Any issues addressed during the maintenance activities and the date each issue was resolved; and
    4. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 84-A-081-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Emission Point	Stack Height (ft)	Discharge Style	Stack Opening (inches, dia)	Exhaust Flow Rate (scfm)	Exhaust Temp. (ºF)	Construction Permit
2-05-2-1	NA	NA	NA	6,400	NA	80-A-030
2-10-17	NA	NA	NA	1,100	NA	90-A-141
2-10-24	21	Vertical Unobstructed	12	450	70	84-A-081-S1
2-12-10	NA	NA	NA	1,000	NA	84-A-085
2-12-11	NA	NA	NA	1,000	NA	84-A-084

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

submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

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

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

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

Dry Filter Agency Operation and Maintenance Plan

Weekly

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

Record Keeping and Reporting

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

Quality Control

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 2-04-21 & 2-04-22

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
2-04-21	2-04-4	Base Coat Paint Booth	2-04/CE1: Dry Filters	Adhesives, Coating, Solvent	15 oz/min	88-A-028-S3
2-04-22	2-04-5	Top Coat Paint Booth	2-04/CE2: Dry Filters		15 oz/min	88-A-027-S3

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: 40%[(1)]
Authority for Requirement: DNR Construction Permits 88-A-028-S3, 88-A-027-S3
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limit: 0.01 gr/dscf
Authority for Requirement: DNR Construction Permits 88-A-028-S3, 88-A-027-S3
567 IAC 23.4(13)

Operational Limits & Reporting/Record keeping Requirements

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

A. The total amount of paint used in the Base Coat Paint Booth (EU 2-04-4) shall not exceed 5,000 gallons in any rolling 12-month period
B. The maximum VOC content of any paint used in the Base Coat Paint Booth (EU 2-04-4) shall not exceed 6.1 pounds per gallon, as purchased.
C. The total amount of solvent used in the Base Coat Paint Booth (EU 2-04-4) shall not exceed 1,000 gallons in any rolling 12-month period
D. The maximum VOC content of any solvent used in the Base Coat Paint Booth (EU 2-04-4) shall not exceed 9.0 pounds per gallon, as purchased.
E. The facility shall maintain the following monthly records:
    1. The amount of paint used in the Base Coat Paint Booth (EU 2-04-4);
    2. The rolling 12-month total amount of paint used in the Base Coat Paint Booth (EU 2-04-4).
    3. The amount of solvent used in the Base Coat Paint Booth (EU 2-04-4); and,

4. The rolling 12-month total amount of solvent used in the Base Coat Paint Booth (EU 2-04-4).

F. The total amount of paint used in the Top Coat Paint Booth (EU 2-04-5) shall not exceed 5,000 gallons in any rolling 12-month period.
G. The maximum VOC content of any paint used in the Top Coat Paint Booth (EU 2-04-5) shall not exceed 6.1 pounds per gallon, as purchased.
H. The total amount of solvent used in the Top Coat Paint Booth (EU 2-04-5) shall not exceed 1,000 gallons in any rolling 12-month period.
I. The maximum VOC content of any solvent used in the Top Coat Paint Booth (EU 2-04-5) shall not exceed 9.0 pounds per gallon, as purchased.
J. The facility shall maintain the following monthly records:
   1. The amount of paint used in the Top Coat Paint Booth (EU 2-04-5);
   2. The rolling 12-month total amount of paint used in the Top Coat Paint Booth (EU 2-04-5).
   3. The amount of solvent used in the Top Coat Paint Booth (EU 2-04-5); and,
   4. The rolling 12-month total amount of solvent used in the Top Coat Paint Booth (EU 2-04-5).
K. Retain Safety Data Sheets (SDS) for all materials used in the emission units (EU 2-04-4 & EU 2-04-5).
L. The owner or operator shall inspect and maintain the dry filters (2-04/CE1 & 2-04/CE2) according to the facility's (Plant No. 29-01-004) operation and maintenance plan with inspections occurring at a minimum of once per calendar year.
   1. The owner or operator shall keep a log of all maintenance and inspection activities performed on the control equipment. This log shall include, but is not limited to:
      i. The date and time any inspection and/or maintenance was performed on the control equipment;
      ii. Any issues identified during the inspection;
      iii. Any issues addressed during the maintenance activities; and,
      iv. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permits 88-A-028-S3, 88-A-027-S3

Emission Point Characteristics

The emission points shall conform to the specifications listed below.

Emission Point	Stack Height (ft)	Discharge Style	Stack Opening (inches, dia)	Exhaust Flow Rate (scfm)	Exhaust Temp. (ºF)	Construction Permit
EP 2-04-21	33	Vertical Obstructed	34	9,800	75	88-A-028-S3
EP 2-04-22	33	Vertical Obstructed	34	9,800	75	88-A-027-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** ☒

Dry Filter Agency Operation and Maintenance Plan

Weekly

- Inspect the paint 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.

Record Keeping and Reporting

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

Quality Control

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 2-10-23

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
2-10-13	Surface Coating Booth	2-10/CE2: Dry Filter	Paint, Zinc Chromate, Loctite, Loctite Primer	1 spray gun, 4.7 gal/hr	84-A-080-S2
2-10-10	Application Vent	NA		50 parts/hr	
2-10-11	Application Vent			50 parts/hr	
2-10-12	Application Vent			50 parts/hr	

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: 40%[(1)]
Authority for Requirement: DNR Construction Permit 84-A-080-S2
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limit: 0.01 gr/scf
Authority for Requirement: DNR Construction Permit 84-A-080-S2
567 IAC 23.4(13)

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

A. The owner or operator shall not use more than 350 gallons of VOC- or HAP-containing material (including solvents) in any rolling 12-month period in these emission units (EU 2-10-10 through EU 2-10-13).
B. The owner or operator shall not use material with a VOC content in excess of 7.0 pounds per gallon in these emission units (EU 2-10-10 through EU 2-10-13).
C. The owner or operator shall not use material with a total HAP content in excess of 2.45 pounds per gallon in these emission units (EU 2-10-10 through EU 2-10-13).
D. The owner or operator shall maintain the following monthly records:
    1. The amount of material used in these emission units (EU 2-10-10 through EU 2-10-13). and

2. The rolling 12-month total amount of material used in these emission units (EU 2-10-10 through EU 2-10-13).

E. The owner or operator shall retain Safety Data Sheets (SDS) for all materials used in these emission units (EU 2-10-10 through EU 2-10-13).
F. No materials shall be sprayed in application vents EUs 2-10-10 through EU 2-10-12.
G. The owner or operator shall inspect and maintain the dry filter (2-10/CE2) according to the facility's (Plant No. 29-01-004) operation and maintenance plan with inspections occurring at a minimum of once per month.
H. The owner or operator shall keep a log of all maintenance and inspection activities performed on the control equipment. This log shall include, but is not limited to:
   1. The date and time any inspection and/or maintenance was performed on the control equipment;
   2. Any issues identified during the inspection;
   3. Any issues addressed during the maintenance activities; and,
   4. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 84-A-080-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 21
Stack Diameter (inches): 24
Exhaust Flow Rate (acfm): 5,610
Exhaust Temperature (^{o}F): 70
Discharge Style: Vertical obstructed
Authority for Requirement: DNR Construction Permit 84-A-080-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** ☒

Dry Filter Agency Operation and Maintenance Plan

Weekly

- Inspect the paint 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.

Record Keeping and Reporting

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

Quality Control

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Numbers: 2-10-21

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
2-10-3	Weighing Stations (3)	Propellant	1,000 lb/hr	Grandfathered

Applicable Requirements

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

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

Pollutant: Particulate Matter
Emission Limit: 2.58 lb/hr [(1)]
Authority for Requirement: 567 IAC 23.3(2)"a"(2)
[(1)] Based on process weights from equation from 23.3(2)"a"(2)

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

There are no applicable requirements at this time.

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 2-01-6

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
2-01-6	Adhesive Application	Adhesive and Paint	2 grams/shell	01-A-1136-S1

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.

None applicable at this time.

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

Operating Limits
A. The maximum amount of material (i.e. paint, adhesive, solvents, etc.) used in this emission unit, EU 2-01-6, shall not exceed 1,000 gallons per twelve-month rolling period.
B. The maximum VOC content of any material used in this emission unit, EU 2-01-6, shall not exceed 7.0 pounds VOC per gallon.

Reporting & Record keeping
A. The permit holder, owner or operator of the facility shall calculate and record the monthly total and the 12-month rolling total amount of material used in this emission unit, EU 2-01-6, in gallons.
B. The permit holder, owner or operator of the facility shall record the VOC content of any material used in this emission unit, EU 2-01-6, in pounds per gallon.
C. The permit holder, owner or operator of the facility shall maintain manufacturer/vendor provided information (i.e., Safety Data Sheets (SDS), technical data sheets, etc.) of all materials used in the emission unit, which clearly indicates the VOC content of that material.

Authority for Requirement: DNR Construction Permit 01-A-1136-S1

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

Stack Height (feet, from the ground): 10.5
Stack Opening (inches, diameter): 16
Exhaust Flow Rate (scfm): 2,400
Exhaust Temperature (^{o}F): Ambient
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 01-A-1136-S1

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 2-05-2-17

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
2-05-2-17	Propellant Loading	2-05-2/CE 17: Wet Scrubber	Black Powder	150 lb/hr	91-A-249-S2

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: 40% (1)
Authority for Requirement: DNR Construction Permit 91-A-249-S2
567 IAC 23.3(2)"d"

(1) 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 (PM)
Emission Limits: 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 91-A-249-S2
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

There are no applicable requirements at this time.

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

Stack Height (feet): 34
Stack Diameter (inches): 10
Exhaust Flow Rate (scfm): 1,050
Exhaust Temperature (^{o}F): 70
Discharge Style: Vertical, Unobstructed
Authority for Requirement: DNR Construction Permit 91-A-249-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** ☒

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 2-10-27

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
2-10-27	Propellant Loading System	Propellant	750 lb/hr	01-A-636

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: 40% (1)
Authority for Requirement: DNR Construction Permit 01-A-636
567 IAC 23.3(2)"d"

(1) An exceedance of the indicator opacity of (5%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)
Emission Limits: 0.1 gr/dscf, 6.75 tons/yr
Authority for Requirement: DNR Construction Permit 01-A-636
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

There are no applicable requirements at this time.

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

Stack Height (feet): 38
Stack Diameter (inches): 15
Exhaust Flow Rate (scfm): 1,800
Exhaust Temperature (^{o}F): 70
Discharge Style: Vertical, Unobstructed
Authority for Requirement: DNR Construction Permit 01-A-636

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

emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 2-10-28

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
2-10-28	Propellant Weighing and Handling Tables in Bay C (5)	Propellant	3,000 lb/hr	01-A-674-S1

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit: 40% (1)
Authority for Requirement: DNR Construction Permit 01-A-674-S1
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limits: 1.88 lb/hr
Authority for Requirement: DNR Construction Permit 01-A-674-S1

Pollutant: Particulate Matter (PM)
Emission Limits: 0.03 gr/dscf, 1.88 lb/hr
Authority for Requirement: DNR Construction Permit 01-A-674-S1

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits

A. The owner or operator shall use no more than 2,200 gallons of adhesive per rolling twelve-month period.
B. The adhesives used in this area shall have a VOC content less than or equal to 9.0 pounds per gallon.

Reporting & Record keeping

A. The owner or operator shall maintain a Safety Data Sheet (SDS) which shows the VOC content of all adhesives used in this area.
B. The owner or operator shall maintain a record of the amount of adhesive used in this area each month. Each month, the owner or operator shall calculate a twelve-month rolling total of adhesives used in this area.

Authority for Requirement: DNR Construction Permit 01-A-674-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 31.6
Stack Diameter (inches): 17
Exhaust Flow Rate (scfm): 7,300
Exhaust Temperature (^{o}F): 70
Discharge Style: Vertical, obstructed
Authority for Requirement: DNR Construction Permit 01-A-674-S1

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 2-10-29

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
2-10-29	Propellant Weighing and Handling Tables in Bay C (2)	Explosive Materials	3,000 lb/hr	01-A-675

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: 40% (1)
Authority for Requirement: DNR Construction Permit 01-A-675
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limits: 0.58 lb/hr
Authority for Requirement: DNR Construction Permit 01-A-675

Pollutant: Particulate Matter (PM)
Emission Limits: 0.03 gr/dscf, 0.58 lb/hr
Authority for Requirement: DNR Construction Permit 01-A-675

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

Stack Height (feet): 31
Stack Diameter (inches): 8
Exhaust Flow Rate (scfm): 2,240
Exhaust Temperature (^oF): 70
Discharge Style: Vertical, obstructed
Authority for Requirement: DNR Construction Permit 01-A-675

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

within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 2-10-30

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
2-10-30	Propellant Weighing and Handling & Adhesive Application	Explosive Materials and Adhesive	1,000 lb propellant/hr	01-A-676-S2

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit: 40% (1)
Authority for Requirement: DNR Construction Permit 01-A-676-S2
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limits: 0.75 lb/hr
Authority for Requirement: DNR Construction Permit 01-A-676-S2

Pollutant: Particulate Matter (PM)
Emission Limits: 0.75 lb/hr
Authority for Requirement: DNR Construction Permit 01-A-676-S2

Pollutant: Particulate Matter (PM)
Emission Limits: 0.01 gr/scf when the Adhesive Application is in operation
Authority for Requirement: DNR Construction Permit 01-A-676-S2
567 IAC 23.4(13)

Pollutant: Particulate Matter (PM)
Emission Limits: 0.1 gr/dscf when Adhesive Application is not in operation
Authority for Requirement: DNR Construction Permit 01-A-676-S2
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits

A. The Adhesive Application shall not use more than 2,200 gallons of adhesive per rolling twelve (12) month period.
B. The VOC content of the adhesives used in the Adhesive Application shall not exceed 9.0 pounds per gallon (lb/gal).

Reporting & Record keeping

A. The amount of adhesive used in the Adhesive Application for each month of operation.
B. The total amount of adhesives used in the Adhesive Application on rolling twelve (12) month basis for each month of operation.
C. The Safety Data Sheet (SDS) for each material used in the Adhesive Application.

Authority for Requirement: DNR Construction Permit 01-A-676-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 30.25
Stack Diameter (inches): 17
Exhaust Flow Rate (scfm): 1,700
Exhaust Temperature (^{o}F): 70
Discharge Style: Vertical obstructed
Authority for Requirement: DNR Construction Permit 01-A-676-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 24.108(3)

Emission Point ID Number: 2-12-4

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
2-12-4	Shell Loading System	2-12/CE 4: Fabric Filter	Explosives	2,083 lb/hr	03-A-571-S1

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: 40%(1)
Authority for Requirement: DNR Construction Permit 03-A-571-S1
567 IAC 23.3(2)"d"

(1) 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 (PM)
Emission Limits: 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 03-A-571-S1
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

There are no applicable requirements at this time.

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

Stack Height (feet): 31.6
Stack Diameter (inches): 6
Exhaust Flow Rate (scfm): 480
Exhaust Temperature (°F): 90
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 03-A-571-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may

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

Monitoring Requirements

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 2-13-2

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
2-13-6	Bay D PCA Station (2 Weigh Stations)	Propellant	17.76 lb/hr for each weigh station	01-A-672

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit: 40%[(1)]
Authority for Requirement: DNR Construction Permit 01-A-672
567 IAC 23.3(2)"d"

[(1)] 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 (PM)
Emission Limits: 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 01-A-672
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements

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

There are no applicable requirements at this time.

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 36
Stack Diameter (inches): 14
Exhaust Flow Rate (scfm): 1,400
Exhaust Temperature (^{o}F): 70
Discharge Style: Vertical, obstructed
Authority for Requirement: DNR Construction Permit 01-A-672

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 2-13-3

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
2-13-7	Portable Weigh Table (Bay D PCA Station)	Propellant	17.76 lb/hr per unit	01-A-673

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: 40%[(1)]
Authority for Requirement: DNR Construction Permit 01-A-673
567 IAC 23.3(2)"d"

[(1)] 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 (PM)
Emission Limits: 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 01-A-673
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

There are no applicable requirements at this time.

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

Stack Height (feet): 15.5
Stack Diameter (inches): 8
Exhaust Flow Rate (scfm): 260
Exhaust Temperature (^{o}F): 70
Discharge Style: Vertical, obstructed
Authority for Requirement: DNR Construction Permit 01-A-673

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

emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 2-13-17

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
2-13-17	Propellant Screening and Weigh – Bay G	Explosive Materials	1,500 lb/hr	02-A-119

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 Limits: 40%(1)
Authority for Requirement: DNR Construction Permit 02-A-119
567 IAC 23.3(2)"d"

(1) 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 (PM)
Emission Limits: 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 02-A-119
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

There are no applicable requirements at this time.

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

Stack Height (feet): 20
Stack Diameter (inches): 24
Exhaust Flow Rate (scfm): 2,200
Exhaust Temperature (°F): 70
Discharge Style: Horizontal
Authority for Requirement: DNR Construction 02-A-119

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3-10-2

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
3-10-2	Surface Coating Operations	3-10/CE2: Dry Filter	Paint, Latex	10 oz/min	87-A-071-S2

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit: 40%[(1)]
Authority for Requirement: DNR Construction Permit 87-A-071-S2
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limits: 0.01 gr/scf
Authority for Requirement: DNR Construction Permit 87-A-071-S2
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit: 9.4 tons/yr
Authority for Requirement: DNR Construction Permit 87-A-071-S2

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits

A. The amount of coatings used in the spray booth shall not exceed 7 gallons per day.
B. The amount of coatings used in the spray booth shall not exceed 2,500 gallons per any rolling 12-month period.
C. The as-applied VOC content of any coating used in the spray booth shall not exceed 7.5 pounds per gallon.
D. The booth's filters must be maintained and replaced according to manufacturer's recommendations.
E. Only one spray gun may be operated at any one time in the spray booth.

Reporting & Record keeping

A. The permittee shall maintain a record on the amount of coatings used each day in the paint spray booth.
B. The permittee shall maintain the following monthly records:
   1. The identification and the as-applied VOC content of each coating used in the paint spray booth.
   2. The amount of coating used in the paint spray booth (gallons).
   3. The rolling, 12-month total of the amount of coatings used in the paint spray booth (gallons).
C. The permittee shall record the date when the booth's dry filters are replaced.

Authority for Requirement: DNR Construction Permit 87-A-071-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 21
Stack Diameter (inches): 18
Exhaust Flow Rate (scfm): 2,800
Exhaust Temperature (^{o}F): 70
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 87-A-071-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** ☒

Dry Filter Agency Operation and Maintenance Plan

Weekly

- Inspect the paint 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.

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3-10-15

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
3-10-15	Surface Coating Booth	3-10/CE15: Dry Filters	Paint	1 paint gun, 10 oz/min	17-A-252

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 40% (1)
Authority for Requirement: DNR Construction Permit 17-A-252
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.01 gr/scf
Authority for Requirement: DNR Construction Permit 17-A-252
567 IAC 23.4(13)

Pollutant: VOC
Emission Limit(s): 9.375 tons/yr
Authority for Requirement: DNR Construction Permit 17-A-252

Pollutant: Total HAP
Emission Limit(s): 9.375 tons/yr
Authority for Requirement: DNR Construction Permit 17-A-252

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

A. The owner or operator shall use a maximum of 2,500 gallons of VOC and/or HAP-containing materials in this coating booth per twelve month rolling period.
B. The owner or operator shall keep monthly records of the amount (in gallons) of VOC and/or HAP-containing material used in this coating booth, and update the twelve month rolling total on a monthly basis.

C. The maximum VOC content of any material used in this coating booth shall be 7.5 lbs VOC/gal.
D. The owner or operator shall keep Safety Data Sheets (SDS) of all materials used in this coating booth.
E. The owner or operator shall inspect and maintain the control equipment according to manufacturer's specifications.
F. The owner or operator shall keep records of control equipment inspections and maintenance.

Authority for Requirement: DNR Construction Permit 17-A-252

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 33
Stack Opening, (inches, dia.): 24
Exhaust Flow Rate (scfm): 5,600
Exhaust Temperature (°F): 70
Discharge Style: Vertical unobstructed
Authority for Requirement: DNR Construction Permit 17-A-252

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** ☒

Dry Filter Agency Operation and Maintenance Plan

Weekly

- Inspect the paint 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.

Record Keeping and Reporting

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

Quality Control

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3A-05-1-14, 3A-05-1-16

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
3A-05-1-14	3A-05-1-14	North Grid Melt	3A-05-1/CE14: Wet Scrubber	Explosive Materials	2,500 lb/hr	17-A-463
3A-05-1-16	3A-05-1-16	South Grid Melt	3A-05-1/CE16: Wet Scrubber	Explosive Materials	2,500 lb/hr	17-A-464

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 40% [(1)]
Authority for Requirement: DNR Construction Permits 17-A-463, 17-A-464
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.21 lbs/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permits 17-A-463, 17-A-464
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

A. The owner or operator shall operate, inspect and maintain all the equipment associated with the process and the Wet Scrubbers (3A-05-1/CE14 & 3A-05-1/CE16) in accordance with good air pollution control practices and manufacturer's specifications with inspections occurring at a minimum of once per calendar year.
   1. The owner or operator shall keep a log of all maintenance and inspection activities performed on the control equipment. This log shall include, but is not limited to:
      i. The date and time any inspection and/or maintenance was performed on the control equipment;
      ii. Any issues identified during the inspection; and,
      iii. Any issues addressed during the maintenance activities.

Authority for Requirement: DNR Construction Permits 17-A-463, 17-A-464

Emission Point Characteristics

The emission points shall conform to the specifications listed below.

Emission Point	Stack Height (ft)	Discharge Style	Stack Opening (inches, dia)	Exhaust Flow Rate (scfm)	Exhaust Temp. (ºF)	Construction Permit
EP 3A-05-1-14	46.5	Horizontal	10	800	70	17-A-463
EP 3A-05-1-16	42.75	Horizontal	16	800	70	17-A-464

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3-05-1-26

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
3-05-1-26	Add/Pour Station (Melt Kettle)	3-05-1/CE26: Fabric Filter	Explosive Materials	1,500 lb/hr	01-A-1255

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: 40%[(1)]
Authority for Requirement: DNR Construction Permit 01-A-1255
567 IAC 23.3(2)"d"

[(1)] 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 (PM)
Emission Limits: 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 01-A-1255
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

There are no applicable requirements at this time.

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

Stack Height (feet): 36
Stack Diameter (inches): 8
Stack Exhaust Flow Rate (scfm): 200
Stack Temperature (ºF): 70
Discharge Style: Vertical, obstructed
Authority for Requirement: DNR Construction Permit 01-A-1255

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may

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

Monitoring Requirements

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3-05-1-27

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
3-05-1-27	Melt Kettle/Add Pour	3-05-1/CE27: Fabric Filter	Explosive Materials	1,500 lb/hr	02-A-120

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: 40%(1)
Authority for Requirement: DNR Construction Permit 02-A-120
567 IAC 23.3(2)"d"

(1) 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 (PM)
Emission Limits: 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 02-A-120
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

There are no applicable requirements at this time.

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

Stack Height (feet): 36
Stack Diameter (inches): 8
Stack Exhaust Flow Rate (scfm): 200
Stack Temperature (^{o}F): 70
Discharge Style: Vertical, obstructed
Authority for Requirement: DNR Construction Permit 02-A-120

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

Monitoring Requirements

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3-05-1-29

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
3-05-1-29	Explosive Processing	3-05-1/CE29: Wet Scrubber	Explosive Powder	1,500 lb/hr	01-A-1257

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: 40%(1)
Authority for Requirement: DNR Construction Permit 01-A-1257
567 IAC 23.3(2)"d"

(1) 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 (PM)
Emission Limits: 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 01-A-1257
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

There are no applicable requirements at this time.

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

Stack Height (feet): 35
Stack Diameter (inches): 9
Stack Exhaust Flow Rate (scfm): 1,200
Stack Temperature (ºF): 70
Discharge Style: Vertical, obstructed
Authority for Requirement: DNR Construction Permit 01-A-1257

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may

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

Monitoring Requirements

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3-05-1-5

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
3-05-1-5	Explosive Processing – Wash Down Facility	3-05-1/CE5: Wet Scrubber	Explosive Powder	500 lb/hr	79-A-200-S3

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: 40%(1)
Authority for Requirement: DNR Construction Permit 79-A-200-S3
567 IAC 23.3(2)"d"

(1) 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 (PM)
Emission Limits: 0.1 gr/dscf, 1.08 lb/hr
Authority for Requirement: DNR Construction Permit 79-A-200-S3
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

There are no applicable requirements at this time.

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

Stack Height (feet): 23
Stack Diameter (inches): 21
Stack Exhaust Flow Rate (scfm): 4,200
Stack Temperature (°F): 70
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 79-A-200-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** ☒

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3-05-1-16

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
3-05-1-16	Probe Machine	3-05-1/CE16: Wet Scrubber	Explosive Powder	1,800 lb/hr	01-A-500

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: 40%[(1)]
Authority for Requirement: DNR Construction Permit 01-A-500
567 IAC 23.3(2)"d"

[(1)] 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 (PM)
Emission Limits: 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 01-A-500
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

A. The wet scrubber shall be in operation at all times that this emissions unit is operated.
Authority for Requirement: DNR Construction Permit 01-A-500

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

Stack Height (feet): 34
Stack Diameter (inches): 10
Stack Exhaust Flow Rate (scfm): 600
Stack Temperature (^{o}F): 120
Discharge Style: Vertical, Unobstructed
Authority for Requirement: DNR Construction Permit 01-A-500

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

Monitoring Requirements

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3-05-1-32

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
3-05-1-32	Screening Table	3-05-1/CE32: Wet Scrubber	Explosive Materials	1,500 lb/hr	01-A-1256

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: 40%[(1)]
Authority for Requirement: DNR Construction Permit 01-A-1256
567 IAC 23.3(2)"d"

[(1)] 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 (PM)
Emission Limits: 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 01-A-1256
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

There are no applicable requirements at this time.

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

Stack Height (feet): 23
Stack Diameter (inches): 9
Stack Exhaust Flow Rate (scfm): 1,200
Stack Temperature (ºF): 70
Discharge Style: Vertical, obstructed
Authority for Requirement: DNR Construction Permit 01-A-1256

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may

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

Monitoring Requirements

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3-05-1-33

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
3-05-1-33	8 Preheat and Post Conditioning Stations	3-05-1/CE23: Spray Scrubber	Explosive Materials	700 lb/hr combined total	25-A-238

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: DNR Construction Permit 25-A-238
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.75lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 25-A-238
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements

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

A. The minimum total liquor flowrate of the Scrubber (CE 3-05-1/CE 23) shall be 3 gallons per minute (gal/min) when the emission unit is operating. At least once per operating day, the owner or operator shall record:
    1. The date,
    2. The time, and
    3. The total liquor flowrate.
B. The Scrubber (CE 3-05-1/CE 23) shall be inspected and maintained in accordance with manufacturer's specifications. The owner or operator shall record:
    1. The date of each inspection,
    2. Any issues discovered during the inspection,
    3. Any maintenance issues discovered outside of any inspections, and
    4. Any actions taken to resolve issues discovered during any inspection or for maintenance issues.

Authority for Requirement: DNR Construction Permit 25-A-238

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

Stack Height (feet): 25
Stack Diameter (inches): 8
Stack Exhaust Flow Rate (scfm): 1,500
Stack Temperature (^{o}F): 70
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 25-A-238

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3-50-12

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
3-50-12	TNT Screening	3-50/CE1: Wet Scrubber	TNT Explosive Powder	3,500 lb/hr	93-A-375-S1

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit: 40%(1)
Authority for Requirement: DNR Construction Permit 93-A-375-S1
567 IAC 23.3(2)"d"

(1) 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 (PM)
Emission Limits: 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 93-A-375-S1
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits

A. The maximum amount of explosives screened shall not exceed 3,500 pounds per hour.
B. The scrubber shall be operated and maintained in accordance with the manufacturer's recommendations.

Reporting & Record keeping

A. The permittee shall maintain records on the maintenance performed on the scrubber.

Authority for Requirement: DNR Construction Permit 93-A-375-S1

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

Stack Height (feet): 25
Stack Diameter (inches): 12
Stack Exhaust Flow Rate (scfm): 2,200
Stack Temperature (^{o}F): 70
Discharge Style: Vertical, obstructed
Authority for Requirement: DNR Construction Permit 93-A-375-S1

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3-50-13

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
3-50-13	Explosive Screening Process	3-50/CE13: Wet Scrubber	Explosive Materials	1,500 lb/hr	06-A-843-S1

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit: 40%(1)
Authority for Requirement: DNR Construction Permit 06-A-843-S1
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limits: 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 06-A-843-S1
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits

A. The maximum capacity of the screener shall not exceed 1,500 lb/hr.
B. The owner or operator shall maintain the wet scrubber (3-50/CE13) according to manufacturer specifications and maintenance schedule.

Reporting & Record keeping

A. The owner or operator shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the wet scrubber (3-50/CE13).

Authority for Requirement: DNR Construction Permit 06-A-843-S1

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

Stack Height (feet): 25.58
Stack Diameter (inches): 11
Stack Exhaust Flow Rate (scfm): 2,100
Stack Temperature (^{o}F): 125
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 06-A-843-S1

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3-99-4

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
3-99-4	Vacuum House	CE 3-99-4: Bag Filter	Explosive/ Inert Powder	25 lb/day	Grandfathered

Applicable Requirements

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

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

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

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

There are no applicable requirements at this time.

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3A-05-2-4

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
3A-05-2-4	Wash Down Operation	3A-05-2/CE1: Wet Scrubber	Wash Liquid and Steam	1,152 lb/hr	96-A-1276

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: 20%
Authority for Requirement: DNR Construction Permit 96-A-1276
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)
Emission Limit: 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 96-A-1276
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit: 500 ppmv
Authority for Requirement: DNR Construction Permit 96-A-1276
567 IAC23.3(3)"e"

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

There are no applicable requirements at this time.

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

Stack Height (feet): 47
Stack Diameter (inches): 15
Stack Exhaust Flow Rate (cfm): 3,500
Stack Temperature (^oF): 70
Discharge Style: Vertical, Unobstructed
Authority for Requirement: DNR Construction Permit 96-A-1276

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.

Visible Emissions Monitoring:

The facility shall check the visible emissions weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Visible emissions shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. 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 the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity 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.

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

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

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

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

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

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.
Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3A-12-4

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
3A-12-4	Cleaning Station	Isopropyl Alcohol	1,500 gal/yr	06-A-845

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: 4.88 tons/yr
Authority for Requirement: DNR Construction Permit 06-A-845

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

Operating Limits
A. The owner or operator shall use no more than 1,500 gallons of VOC containing materials per rolling twelve-month period.
B. The VOC containing materials used in this area shall have a VOC content less than or equal to 6.5 lbs/gallon.

Reporting & Record keeping
A. The owner or operator shall maintain a Safety Data Sheet (SDS) which shows the VOC content of all materials used in this area.
B. The owner or operator shall maintain a record of the amount of VOC containing material used in this area each month. Each month, the owner or operator shall calculate a twelve-month rolling total of VOC containing material used in this area.

Authority for Requirement: DNR Construction Permit 06-A-845

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

Stack Height (feet, from the ground): 36
Stack Opening (inches, diameter): 10
Exhaust Flow Rate (scfm): 1,250
Exhaust Temperature (^{o}F): 70
Discharge Style: Vertical unobstructed
Authority for Requirement: DNR Construction Permit 06-A-845

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3A-12-7

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
3A-12-7	Cleaning Station	Cleaning Materials	1,500 gal/yr	06-A-846

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: 4.88 tons/yr.
Authority for Requirement: DNR Construction Permit 06-A-846

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

Operating Limits
A. The owner or operator shall use no more than 1,500 gallons of VOC containing materials per rolling twelve-month period.
B. The VOC containing materials used in this area shall have a VOC content less than or equal to 6.5 lbs/gallon.

Reporting & Record keeping
A. The owner or operator shall maintain a Safety Data Sheet (SDS) which shows the VOC content of all materials used in this area.
B. The owner or operator shall maintain a record of the amount of VOC containing material used in this area each month. Each month, the owner or operator shall calculate a twelve-month rolling total of VOC containing material used in this area.

Authority for Requirement: DNR Construction Permit 06-A-846

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

Stack Height (feet, from the ground): 38
Stack Opening (inches, diameter): 11
Exhaust Flow Rate (scfm): 3,000
Exhaust Temperature (^{o}F): 70
Discharge Style: Vertical, Unobstructed
Authority for Requirement: DNR Construction Permit 06-A-846

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3A-04

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
3A-04	Paint Top Coat and Fluid Film	3A-04: Dry Filter	Paint	1 Spray gun at 0.1 gal/hr	25-A-121

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40% (1)
Authority for Requirement: DNR Construction Permit 25-A-121
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.01 gr/dscf
Authority for Requirement: DNR Construction Permit 25-A-121
567 IAC 23.4(13)

Operational Limits & Reporting/Record keeping Requirements

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

A. Only one spray gun may be operated in the emission unit at any one time.
   1. The owner or operator shall maintain a specification sheet for each gun used in the emission unit to verify the capacity of each gun.
B. The surface coating materials [e.g., lanolin-based such as Fluid Film®] used in the emission unit shall not contain any HAPs.
C. The surface coating materials [e.g., lanolin-based such as Fluid Film®] used in the emission unit shall not exceed 1.0 lb/gallon VOCs.
D. The total quantity of surface coating materials used in the emission unit (EU 3A-04) shall not exceed 1,000 gallons per twelve-month rolling period.
   1. On a monthly basis, the owner or operator shall:
      i. Record the quantity of surface coating materials used, in gallons, over the previous month; and
      ii. Calculate and record the quantity of surface coating materials used, in gallons, over the previous twelve months.

iii. For the purposes of tracking material usage, all materials may be considered used on the day the materials are delivered to the facility or to the emission unit (EU 3A-04).

E. The owner or operator shall:
   1. Maintain a copy of the Safety Data Sheet (SDS), Technical Data Sheet (TDS), etc. for each material used in this emission unit on-site.
   2. Maintain a log listing:
      i. The name of the material,
      ii. A description of whether the material is a coating material or solvent,
      iii. The VOC content of the material,
      iv. The individual HAP content of the material, and
      v. The total HAP content of the material.

F. The dry filter(s) used for these emission units shall be operated and maintained in accordance with the recommendations of the manufacturer.
   1. The owner or operator shall inspect the system quarterly for conditions that reduce the operating efficiency of the collection system.
      i. This inspection shall include a visual inspection of the condition of the filter material.
      ii. The owner or operator shall maintain a record of all inspections and maintenance and any action resulting from the inspection and maintenance of the dry filter(s).

Authority for Requirement: DNR Construction Permit 25-A-121

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft., from the ground): 20
Stack Opening, (inches, dia.): 18
Exhaust Flow Rate (scfm): 3,200
Exhaust Temperature (°F): Building Ambient
Discharge Style: Vertical
Authority for Requirement: DNR Construction Permit 25-A-121

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Dry Filter Agency Operation and Maintenance Plan

Weekly

- Inspect the paint 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.

Record Keeping and Reporting

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

Quality Control

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3A-04-01

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
3A-04-01	Top Coat and Lanolin Application	3A-04-01: Dry Filter	Paint	1 Spray gun at 0.1 gal/hr	25-A-122

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40% (1)
Authority for Requirement: DNR Construction Permit 25-A-122
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.01 gr/dscf
Authority for Requirement: DNR Construction Permit 25-A-122
567 IAC 23.4(13)

Operational Limits & Reporting/Record keeping Requirements

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

A. Only one spray gun may be operated in the emission unit at any one time.
   1. The owner or operator shall maintain a specification sheet for each gun used in the emission unit to verify the capacity of each gun.
B. The surface coating materials used in the emission unit shall not exceed 0.50 lb/gallon for THAP.
C. The surface coating materials used in the emission unit shall not exceed 3.0 lb/gallon VOCs.
D. The total quantity of surface coating materials used in the emission unit (EU 3A-04-01) shall not exceed 1,000 gallons per twelve-month rolling period.
   1. On a monthly basis, the owner or operator shall:
      i. Record the quantity of surface coating materials used, in gallons, over the previous month; and
      ii. Calculate and record the quantity of surface coating materials used, in gallons, over the previous twelve months.
      iii. For the purposes of tracking material usage, all materials may be considered used

on the day the materials are delivered to the facility or to the emission unit (EU 3A-04-01).

E. The owner or operator shall:
   1. Maintain a copy of the Safety Data Sheet (SDS), Technical Data Sheet (TDS), etc. for each material used in this emission unit on-site.
   2. Maintain a log listing:
      i. The name of the material,
      ii. A description of whether the material is a coating material or solvent,
      iii. The VOC content of the material,
      iv. The individual HAP content of the material, and
      v. The total HAP content of the material.

F. The dry filter(s) used for these emission units shall be operated and maintained in accordance with the recommendations of the manufacturer.
   1. The owner or operator shall inspect the system quarterly for conditions that reduce the operating efficiency of the collection system.
      i. This inspection shall include a visual inspection of the condition of the filter material.
      ii. The owner or operator shall maintain a record of all inspections and maintenance and any action resulting from the inspection and maintenance of the dry filter(s).

Authority for Requirement: DNR Construction Permit 25-A-122

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft., from the ground): 20
Stack Opening, (inches, dia.): 18
Exhaust Flow Rate (scfm): 3,200
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical
Authority for Requirement: DNR Construction Permit 25-A-122

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Dry Filter Agency Operation and Maintenance Plan

Weekly

- Inspect the paint 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.

Record Keeping and Reporting

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

Quality Control

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3A-12-5

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
3A-12-5	Spray Paint Booth	3A-12/CE5: Dry Filter	Paint	1,500 gal/yr	03-A-543

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit: 40%[(1)]
Authority for Requirement: DNR Construction Permit 03-A-543
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limit: 0.01 gr/scf
Authority for Requirement: DNR Construction Permit 03-A-543
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit: 4.8 tons/yr
Authority for Requirement: DNR Construction Permit 03-A-543

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits

A. Total material usage in this spray booth shall not exceed 1,500 gallons per twelve month rolling period.
B. The maximum VOC content of material used in this spray booth shall not exceed 6.5 lbs VOC/gal as applied.

Reporting & Record keeping

These records shall show the following and be maintained monthly:

A. The identification and the VOC content of any material applied in the spray booth.
B. The total amount of material used in the spray booth (gallons).

C. The rolling 12-month total of the amount of material used in the spray booth (gallons).
Authority for Requirement: DNR Construction Permit 03-A-543

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

Stack Height (feet, from the ground): 40
Stack Opening (inches, diameter): 18
Exhaust Flow Rate (scfm): 2,500
Exhaust Temperature (°F): 70
Discharge Style: Vertical, Unobstructed
Authority for Requirement: DNR Construction Permit 03-A-543

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** ☒

Dry Filter Agency Operation and Maintenance Plan

Weekly
- Inspect the paint 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.

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3A-12-6

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
3A-12-6	Surface Coating Operations	3A-12/CE6: Dry Filter	Paint	10 oz/min	90-A-231-S4

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit: 40%[(1)]
Authority for Requirement: DNR Construction Permit 90-A-231-S4
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limit: 0.01 gr/scf
Authority for Requirement: DNR Construction Permit 90-A-231-S4
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit: 4.8 tons/yr
Authority for Requirement: DNR Construction Permit 90-A-231-S4

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits

A. Total material usage in this spray booth shall not exceed 1,500 gallons per twelve month rolling period.
B. The maximum VOC content of material used in this spray booth shall not exceed 6.5 lbs VOC/gal as applied.

Reporting & Record keeping

These records shall show the following and be maintained monthly:
A. The identification and the VOC content of any material applied in the spray booth.
B. The total amount of material used in the spray booth (gallons).

C. The rolling 12-month total of the amount of material used in the spray booth (gallons).
Authority for Requirement: DNR Construction Permit 90-A-231-S4

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

Stack Height (feet, from the ground): 40
Stack Opening (inches, diameter): 18
Exhaust Flow Rate (scfm): 2,500
Exhaust Temperature (°F): 70
Discharge Style: Vertical, Unobstructed
Authority for Requirement: DNR Construction Permit 90-A-231-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** ☒

Dry Filter Agency Operation and Maintenance Plan

Weekly
- Inspect the paint 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.

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3A-05-1-9

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 3A-05-1-4	Autoclave (Sump Out Operations)	CE 3A-05-1-9: Wet Scrubber	Explosive Material	400 lb/hr each	95-A-186-S8
EU 3A-05-1-5					
EU 3A-05-1-6					
EU 3A-05-1-7					
EU 3A-05-1-8					
EU 3A-05-1-9					
EU 3A-05-1-10					
EU 3A-05-1-11					

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit: 40%[(1)]
Authority for Requirement: DNR Construction Permit 95-A-186-S8
567 IAC 23.3(2)"d"

[(1)] 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 (PM)
Emission Limits: 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 95-A-186-S8
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits

A. The owner or operator shall operate, inspect and maintain all the equipment associated with the process and the Wet Scrubber (CE 3A-05-1-9) in accordance with good air pollution control practices and manufacturer's specifications.

Reporting & Record keeping

A. The owner or operator shall maintain a record of all inspections, maintenance activities, and any actions resulting from the inspection or maintenance of the Wet Scrubber (CE 3A-05-1-9).

Authority for Requirement: DNR Construction Permit 95-A-186-S8

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 27
Stack Diameter (inches): 14
Stack Exhaust Flow Rate (scfm): 2,100
Stack Temperature (^{o}F): 70
Discharge Style: Vertical, obstructed
Authority for Requirement: DNR Construction Permit 95-A-186-S8

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3A-05-1-12

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
3A-05-1-12	Screening Tables (2)	3A-05-1/CE12: Wet Scrubber	Explosive Powder	3,500 lb/hr (each) Only one can operate at a time.	86-A-083-S3

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: 40%[(1)]
Authority for Requirement: DNR Construction Permit 86-A-083-S3
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limits: 0.90 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 86-A-083-S3
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

There are no applicable requirements at this time.

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

Stack Height (feet): 44
Stack Diameter (inches): 10
Exhaust Flow Rate (scfm): 3,500
Exhaust Temperature (^{o}F): 70
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 86-A-083-S3

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

Monitoring Requirements

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3A-05-1-13

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
3A-05-1-24	North Scrap Melt & Kettle	3A-05-1/CE13: Wet Scrubber	Explosive Powder	400 lb/hr	01-A-1086-S3

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit: 40%(1)
Authority for Requirement: DNR Construction Permit 01-A-1086-S3
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limits: 0.21 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 01-A-1086-S3

Operational Limits & Reporting/Record keeping Requirements

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

A. The owner or operator shall operate, inspect and maintain all the equipment associated with the process and the Wet Scrubber (CE 3A-05-1-13) in accordance with good air pollution control practices and manufacturer's specifications.
   1. The owner or operator shall maintain a record of all inspections, maintenance activities, and any actions resulting from the inspection or maintenance of the Wet Scrubber (CE 3A-05-1-13).

DNR Construction Permit 01-A-1086-S3

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

Stack Height (feet): 44
Stack Diameter (inches): 10
Exhaust Flow Rate (scfm): 800
Exhaust Temperature (^{o}F): 70
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 01-A-1086-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 24.108(3)

Emission Point ID Number: 3A-05-1-15

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
3A-05-1-3	North TNT Weigh Feeder and Melt Kettles	3A-05-1/CE3: Wet Scrubber	Explosive Powder	Both rated at 3,500 lb/hr	88-A-007-S4

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: 40%(1)
Authority for Requirement: DNR Construction Permit 88-A-007-S4
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limits: 0.28 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 88-A-007-S4
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

There are no applicable requirements at this time.

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

Stack Height (feet): 13.3
Stack Diameter (inches): 10
Exhaust Flow Rate (scfm): 1,100
Exhaust Temperature (°F): 70
Discharge Style: Vertical obstructed
Authority for Requirement: DNR Construction Permit 88-A-007-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** ☒

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3A-05-1-17

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
3A-05-1-25	South Scrap Melt & Kettle	3A-05-1/CE17: Wet Scrubber	Explosive Powder	400 lb/hr	01-A-476-S4

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit: 40%[(1)]
Authority for Requirement: DNR Construction Permit 01-A-476-S4
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limits: 0.21 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 01-A-476-S4
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements

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

A. The owner or operator shall operate, inspect and maintain all the equipment associated with the process and the Wet Scrubber (CE 3A-05-1-17) in accordance with good air pollution control practices and manufacturer's specifications.
   1. The owner or operator shall maintain a record of all inspections, maintenance activities, and any actions resulting from the inspection or maintenance of the Wet Scrubber (CE 3A-05-1-17).

Authority for Requirement: DNR Construction Permit 01-A-476-S4

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

Stack Height (feet): 44
Stack Diameter (inches): 16
Exhaust Flow Rate (scfm): 800
Exhaust Temperature (^{o}F): 70
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 01-A-476-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 24.108(3)

Emission Point ID Number: 3A-05-1-19

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
3A-05-1-19	South TNT Weigh Feeder and Melt Kettles	3A-05-1/CE19: Wet Scrubber	Explosive Powder	Each rated at 3,500 lb/hr	01-A-1087-S2

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit: 40%(1)
Authority for Requirement: DNR Construction Permit 01-A-1087-S2
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limits: 0.28 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 01-A-1087-S2
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements

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

There are no applicable requirements at this time.

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 13.3
Stack Diameter (inches): 10
Exhaust Flow Rate (scfm): 1,100
Exhaust Temperature (°F): 70
Discharge Style: Vertical obstructed
Authority for Requirement: DNR Construction Permit 01-A-1087-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** ☒

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3A-05-1-20

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
3A-05-1-20	Explosive Pouring Operation	3A-05-1/CE20: Wet Scrubber	Explosive Materials	3,500 lb/hr	02-A-012-S2

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit: 40%[(1)]
Authority for Requirement: DNR Construction Permit 02-A-012-S2
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limits: 0.72 lb/hr
Authority for Requirement: DNR Construction Permit 02-A-012-S2

Pollutant: Particulate Matter (PM)
Emission Limits: 0.72 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 02-A-012-S2
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits

A. The owner or operator shall inspect and maintain the control equipment according to manufacturer's specifications.

Reporting & Record keeping

A. The owner or operator shall keep records of control equipment inspections and maintenance.
Authority for Requirement: DNR Construction Permit 02-A-012-S2

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

Stack Height (feet): 30
Stack Diameter (inches): 14
Exhaust Flow Rate (scfm): 2800
Exhaust Temperature (^{o}F): 70
Discharge Style: Vertical obstructed
Authority for Requirement: DNR Construction Permit 02-A-012-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** ☒

Scrubber Agency O & M Plan

Monitoring Guidelines

The facility makes a commitment to take timely corrective action during periods of excursion where the indicators are out of range. A corrective action may include an investigation of the reason for the excursion, evaluation of the situation and necessary follow-up action to return operation within the indicator range**.** An excursion is determined by the averaged discrete data point over a period of time. An excursion does not necessarily indicate a violation of an applicable requirement. If the corrective action measures fail to return the indicators to the appropriate range, the facility will report the exceedance to the department and conduct source testing within 90 days of the exceedance to demonstrate compliance with applicable requirements. If the test demonstrates compliance with emission limits then new indicator ranges must be set for monitoring and the new ranges must be incorporated in the operating permit. If the test demonstrates noncompliance with emission limits, then the facility, within 60 days, proposes a schedule to implement corrective action to bring the source into compliance and demonstrate compliance.

Weekly
The facility shall check the visible emissions weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Visible emissions shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than 8 hours from the observation of visible emissions. If the corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>40%) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than 8 hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity 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.
Check and document the pressure drop across the scrubber. If the pressure drop falls out of the normal operating range (5-15 inches W. G.) corrective action will be taken within 8 hours to return the pressure drop to normal.

Conduct observation of the stack and areas adjacent to the stack to determine if droplet re-entrainment is occurring from the improperly operating mist eliminator. The signs of droplet re-entrainment may include fallout of solid-containing droplets, new discoloration of the stack and adjacent surfaces, or a mud lip around the stack. If droplet re-entrainment is occurring, the appropriate measures for remediation will be implemented within 8 hours.

Quarterly
Conduct a walk-around inspection of the entire system to search for leaks. If leaks in the system are detected, the appropriate measures for remediation will be implemented within 8 hours.

Annually
Conduct an internal inspection of the scrubber to search for signs of erosion, corrosion, or solid deposits in ductwork, spray nozzles, and adjustable throat dampers. If any of these conditions exist, the appropriate measures for remediation will be implemented within 8 hours.

Recordkeeping
Maintain a record of all inspections and any action resulting from the inspection.
Maintenance and inspection records will be kept for 5 years and made available upon request.

Quality Controls
All instruments and control equipment will be calibrated, maintained, and operated according to the manufacturer's specifications.

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3A-05-1-21

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
3A-05-1-21	Cooling Ovens (36), Pouring Operation, and Probe Machines (2)	3A-05-1/CE21: Wet Scrubber	Explosive Material	3,500 lb/hr total for the ovens, 3,500 lb/hr pouring, 3,500 lb/hr for probe machines	02-A-122-S2

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 Limits: 40%(1)
Authority for Requirement: DNR Construction Permit 02-A-122-S2
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limits: 2.13 lb/hr
Authority for Requirement: DNR Construction Permit 02-A-122-S2

Pollutant: Particulate Matter (PM)
Emission Limits: 2.13 lb/hr; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 02-A-122-S2
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits

A. Maintain the wet scrubber according to the manufacturer's specifications.

Reporting & Record keeping

A. Record any maintenance performed on the wet scrubber.
Authority for Requirement: DNR Construction Permit 02-A-122-S2

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

Stack Height (feet): 50
Stack Diameter (inches): 23
Exhaust Flow Rate (scfm): 8,300
Exhaust Temperature (°F): 70
Discharge Style: Vertical obstructed
Authority for Requirement: DNR Construction Permit 02-A-122-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** ☒

Scrubber Agency O & M Plan

Monitoring Guidelines

The facility makes a commitment to take timely corrective action during periods of excursion where the indicators are out of range. A corrective action may include an investigation of the reason for the excursion, evaluation of the situation and necessary follow-up action to return operation within the indicator range**.** An excursion is determined by the averaged discrete data point over a period of time. An excursion does not necessarily indicate a violation of an applicable requirement. If the corrective action measures fail to return the indicators to the appropriate range, the facility will report the exceedance to the department and conduct source testing within 90 days of the exceedance to demonstrate compliance with applicable requirements. If the test demonstrates compliance with emission limits then new indicator ranges must be set for monitoring and the new ranges must be incorporated in the operating permit. If the test demonstrates noncompliance with emission limits, then the facility, within 60 days, proposes a schedule to implement corrective action to bring the source into compliance and demonstrate compliance.

Weekly
The facility shall check the visible emissions weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Visible emissions shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than 8 hours from the observation of visible emissions. If the corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>40%) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than 8 hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity 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.
Check and document the pressure drop across the scrubber. If the pressure drop falls out of the normal operating range (5-15 inches W. G.) corrective action will be taken within 8 hours to return the pressure drop to normal.

Conduct observation of the stack and areas adjacent to the stack to determine if droplet re-entrainment is occurring from the improperly operating mist eliminator. The signs of droplet re-entrainment may include fallout of solid-containing droplets, new discoloration of the stack and adjacent surfaces, or a mud lip around the stack. If droplet re-entrainment is occurring, the appropriate measures for remediation will be implemented within 8 hours.

Quarterly
Conduct a walk-around inspection of the entire system to search for leaks. If leaks in the system are detected, the appropriate measures for remediation will be implemented within 8 hours.

Annually
Conduct an internal inspection of the scrubber to search for signs of erosion, corrosion, or solid deposits in ductwork, spray nozzles, and adjustable throat dampers. If any of these conditions exist, the appropriate measures for remediation will be implemented within 8 hours.

Recordkeeping
Maintain a record of all inspections and any action resulting from the inspection.
Maintenance and inspection records will be kept for 5 years and made available upon request.

Quality Controls
All instruments and control equipment will be calibrated, maintained, and operated according to the manufacturer's specifications.

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3A-05-1-22

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
3A-05-1-22	Funnel Washing Machines (2)	3A-05-1/CE22: Wet Scrubber	Explosive Materials	400 lb/day	06-A-844-S2

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 Limits: 40%(1)
Authority for Requirement: DNR Construction Permit 06-A-844-S2
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limits: 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 06-A-844-S2
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements

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

There are no applicable requirements at this time.

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 21.6
Stack Diameter (inches): 8
Exhaust Flow Rate (scfm): 600
Exhaust Temperature (°F): 70
Discharge Style: Vertical obstructed
Authority for Requirement: DNR Construction Permit 06-A-844-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** ☒

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3A-50-1-1

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
3A-50-1-1	Loading Hopper	3A-50-1-1/CE4: Wet Scrubber	Explosive Powder	3,500 lb/hr	01-A-185-S1

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit: 40%(1)
Authority for Requirement: DNR Construction Permit 01-A-185-S1
567 IAC 23.3(2)"d"

(1) 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: Particulate Matter (PM)
Emission Limit: 1.03 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 01-A-185-S1
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements

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

A. The owner or operator shall operate, inspect and maintain all the equipment associated with the process and the Wet Scrubber (CE 3A-50-1/CE4) in accordance with good air pollution control practices and manufacturer's specifications.
   1. The owner or operator shall maintain a record of all inspections, maintenance activities, and any actions resulting from the inspection or maintenance of the Wet Scrubber (CE 3A-50-1/CE4).

Authority for Requirement: DNR Construction Permit 01-A-185-S1

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

Stack Height (feet): 26
Stack Diameter (inches): 9
Exhaust Flow Rate (scfm): 1,500
Exhaust Temperature (^{o}F): 70
Discharge Style: Vertical, Unobstructed
Authority for Requirement: DNR Construction Permit 01-A-185-S1

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3A-50-1-2

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
3A-50-1-2	Portable Hopper	3A-50-1/CE5: Wet Scrubber	Explosives	3,500 lb/hr	01-A-186-S1

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit: 40%[(1)]
Authority for Requirement: 567 IAC 23.3(2)"d"
DNR Construction Permit 01-A-186-S1

[(1)]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: Particulate Matter (PM)
Emission Limit: 1.03 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 01-A-186-S1
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements

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

A. The owner or operator shall operate, inspect and maintain all the equipment associated with the process and the Wet Scrubber (CE 3A-50-1/CE5) in accordance with good air pollution control practices and manufacturer's specifications.
   1. The owner or operator shall maintain a record of all inspections, maintenance activities, and any actions resulting from the inspection or maintenance of the Wet Scrubber (CE 3A-50-1/CE5).

Authority for Requirement: DNR Construction Permit 01-A-186-S1

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

Stack Height (feet): 26
Stack Diameter (inches): 7
Exhaust Flow Rate (scfm): 1,500
Exhaust Temperature (^{o}F): 70
Discharge Style: Vertical, Unobstructed
Authority for Requirement: DNR Construction Permit 01-A-186-S1

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3A-50-1-3

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
3A-50-1-3	Screening Table	3A-50-1/CE6: Wet Scrubber	Explosives	3,500 lb/hr	01-A-187-S1

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit: 40%[(1)]
Authority for Requirement: DNR Construction Permit 01-A-187-S1
567 IAC 23.3(2)"d"

[(1)] 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: Particulate Matter (PM)
Emission Limit:0.69 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 01-A-187-S1
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements

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

A. The owner or operator shall operate, inspect and maintain all the equipment associated with the process and the Wet Scrubber (CE 3A-50-1/CE6) in accordance with good air pollution control practices and manufacturer's specifications.
   1. The owner or operator shall maintain a record of all inspections, maintenance activities, and any actions resulting from the inspection or maintenance of the Wet Scrubber (CE 3A-50-1/CE6).

Authority for Requirement: DNR Construction Permit 01-A-187-S1

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

Stack Height (feet): 26
Stack Diameter (inches): 11
Exhaust Flow Rate (scfm): 1,000
Exhaust Temperature (^{o}F): 70
Discharge Style: Vertical, Unobstructed
Authority for Requirement: DNR Construction Permit 01-A-187-S1

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3A-99-8

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
3A-99-8	Vacuum House	CE 3A-99-8: Bag Filter	Explosive/ Inert Powder	25 lb/day	01-A-1080

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: 40%(1)
Authority for Requirement: DNR Construction Permit 01-A-1080
567 IAC 23.3(2)"d"

(1) 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 (PM)
Emission Limits: 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 01-A-1080
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

There are no applicable requirements at this time.

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

Stack Height (feet): 3
Stack Diameter (inches): 6
Exhaust Flow Rate (scfm): 500
Exhaust Temperature (°F): 70
Discharge Style: Downward
Authority for Requirement: DNR Construction Permit 01-A-1080

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may

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

Monitoring Requirements

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3A-02-5

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
3A-02-5	3 Dual Fuel Boilers	60 ppm Low NOx Burner with Flue Gas Recirculation	Natural Gas and Propane	12.197 MMBtu/hr each	15-A-572-S2
3A-02-6					
3A-02-7					

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit: 40%(1)
Authority for Requirement: DNR Construction Permit 15-A-572-S2
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit: 0.40 lb/hr
Authority for Requirement: DNR Construction Permit 15-A-572-S2

Pollutant: Particulate Matter (PM)
Emission Limit: 0.40 lb/hr; 0.6 lb/MMBtu
Authority for Requirement: DNR Construction Permit 15-A-572-S2
567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit: 500 ppm_v
Authority for Requirement: DNR Construction Permit 15-A-572-S2
567 IAC 23.3(3)

Operational Limits & Reporting/Record keeping Requirements

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

A. The owner or operator shall inspect, maintain, and operate the boilers according to manufacturer instructions and specifications. The owner or operator shall maintain a record of all inspections and maintenance for the boilers.

B. These emission units shall combust only natural gas or propane.
C. Per 40 CFR §60.48c(g)(1), the owner or operator shall record and maintain records of the amount of each fuel combusted during each operating day. As an alternative to this requirement per 40 CFR §60.48c(g)(2) and 40 CFR §60.48c(g)(3), the owner or operator may elect to either:
   1. record and maintain records of the amount of each fuel combusted during each calendar month [See 40 CFR §60.48c(g)(2)] or
   2. record and maintain records of the total amount of each steam generating unit fuel delivered to that property during each calendar month [See 40 CFR §60.48c(g)(3)].

Authority for Requirement: DNR Construction Permit 15-A-572-S2
40 CFR 60 Subpart Dc
567 IAC 23.1(2)"lll"

NESHAP Applicability
This equipment is subject to the *National Emission Standards for Hazardous Air Pollutants 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 24.108(3)

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

Stack Height, (ft., from the ground): 45
Stack Opening, (inches, dia.): 46
Exhaust Flow Rate (scfm): 11,331
Exhaust Temperature (°F): 396
Discharge Style: Vertical, Unobstructed
Authority for Requirement: DNR Construction Permit 15-A-572-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 24.108(3)

Emission Point ID Number: 3A-50-1-4

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
3A-50-1-4	Emergency Diesel Generator	Diesel	1,340 bhp, 0.075 kgal/hr	NA

Applicable Requirements

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

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

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

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

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit: 2.5 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(3)"b"(2)

Operational Limits & Reporting/Record keeping Requirements

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

1. This unit shall be limited to 400 hours per 12 month rolling total.
2. The owner/operator shall record the number of hours the unit operated and the reason for operation.
3. The facility claims small unit exemption for this unit under 567 IAC 22.1(2)"w". Records should be kept in accordance with 567 IAC 22.1(2)"w"(3).

Authority for Requirement: 567 IAC 24.108(14)
567 IAC 22.1(2)"w"
567 IAC 24.108(3)

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)(i) this emergency engine, located at a major source, is a new stationary RICE as it was constructed on or after December 19, 2002.

According to 40 CFR 63.6590(b)(1)(i), a new emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions is not subject to the requirements of 40 CFR 63 Subpart ZZZZ and Subpart A except for initial notification requirements of 40 CFR 63.6645(f).

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ
567 IAC 23.1(4)"cz"
567 IAC 24.108(3)

NSPS Applicability

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	560 < kW ≤ 2237 (751 < HP ≤ 3000)	2007+	6.4 (4.8)	3.5 (2.6)	0.20 (0.15)	(1)	(2)

(1) Exhaust opacity must not exceed: 20 percent during the acceleration mode; 15 percent during the lugging mode; and 50 percent during the peaks in either the acceleration or lugging modes.
(2) 40 CFR 1039 Appendix I.

Fuel Requirements:

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 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
500 < HP	Within 1 year of engine startup, or non-permitted action [(1)]	Every 8,760 hours or 3 years, whichever comes first

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

Operating and Recordkeeping Requirements

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

Engine power	Starting model year
130 ≤ KW (175 ≤ HP)	2011

2. There is no time limit on use for emergency situations. 40 CFR 60.4211(f)(1).
3. The engine may be operated for the purpose of maintenance checks and readiness testing, emergency demand response, and deviation of voltage or frequency for a maximum of 100 hours/year. See 40 CFR 60.4211(f)(2) for more information.
4. The engine may be operated for up to 50 hours per year for non-emergency purposes. This operating time cannot be used for peak shaving or non-emergency demand response or to generate income for the facility (e.g. supplying power to the grid) and should be included in the total of 100 hours allowed for maintenance checks and readiness testing. See 40 CFR 60.4211(f)(3) for more information.
5. If your emergency engine has a maximum engine power of more than 100 HP and operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 40 CFR 60.4211(f)(2)(ii) and (iii) or operates for the purposes specified in 40 CFR 60.4211(f)(3)(i), you must submit an annual report according to the requirements in 40 CFR 60.4214(d)(1) through (3). See 40 CFR 60.4214(d) for more information.

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3B-05-1-1

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
3B-05-1-1	FAC Boiler 01 [Cleaver Boiler]	Natural Gas	4.18 MMBtu/hr	26-A-337

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 40% (1)
Authority for Requirement: DNR Construction Permit 26-A-337
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.10 lb/hr
Authority for Requirement: DNR Construction Permit 26-A-337

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.10 lb/hr, 0.6 lb/MMbtu
Authority for Requirement: DNR Construction Permit 26-A-337
567 IAC 23.3(2)"b"(3)

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppm_v
Authority for Requirement: DNR Construction Permit 26-A-337
567 IAC 23.3(3)"e"

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

A. The boiler shall only be fueled by natural gas.
   (1) The owner or operator shall maintain records demonstrating the emission unit can combust only natural gas.
B. The emission unit shall not exceed 6,240 hours in a 12-month rolling period.
   (1) The permittee shall maintain the following monthly records for the emission unit:

a. The total of hours of operation for the month; and
b. The 12-month rolling total of hours of operation.

C. All equipment associated with this permit shall be operated and maintained according to manufacturer specifications and maintenance schedule.
(1) The owner or operator shall maintain records of all inspections and maintenance and any actions resulting from the inspections and maintenance for all the process equipment for this unit.

Authority for Requirement: DNR Construction Permit 26-A-337

NESHAP Applicability

This emission unit is subject to the requirements of 40 CFR Part 63, Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants: Industrial, Commercial, and Institutional boilers and process heaters.

Authority for Requirement: 40 CFR 63 Subpart DDDDD

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft., from the ground): 37
Stack Opening, (inches, dia.): 14
Exhaust Flow Rate (scfm): 5,800
Exhaust Temperature (°F): 400
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 26-A-337

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3B-05-2-1

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
3B-05-2-B1	MP 2 Boiler [Cleaver Boiler]	Natural Gas	4.15 MMBtu/hr	26-A-338

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 40% (1)
Authority for Requirement: DNR Construction Permit 26-A-338
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.037 lb/hr
Authority for Requirement: DNR Construction Permit 26-A-338

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.037 lb/hr, 0.6 lb/MMbtu
Authority for Requirement: DNR Construction Permit 26-A-338
567 IAC 23.3(2)"b"(3)

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppm_v
Authority for Requirement: DNR Construction Permit 26-A-338
567 IAC 23.3(3)"e"

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

A. The boiler shall only be fueled by natural gas.
   (1) The owner or operator shall maintain records demonstrating the emission unit can combust only natural gas.
B. The emission unit shall not exceed 6,240 hours in a 12-month rolling period.
   (1) The permittee shall maintain the following monthly records for the emission unit:

a. The total of hours of operation for the month; and
b. The 12-month rolling total of hours of operation.

C. All equipment associated with this permit shall be operated and maintained according to manufacturer specifications and maintenance schedule.
(1) The owner or operator shall maintain records of all inspections and maintenance and any actions resulting from the inspections and maintenance for all the process equipment for this unit.

Authority for Requirement: DNR Construction Permit 26-A-338

NESHAP Applicability

This emission unit is subject to the requirements of 40 CFR Part 63, Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants: Industrial, Commercial, and Institutional boilers and process heaters.

Authority for Requirement: 40 CFR 63 Subpart DDDDD

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft., from the ground): 37
Stack Opening, (inches, dia.): 14
Exhaust Flow Rate (scfm): 1,170
Exhaust Temperature (°F): 370
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 26-A-338

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3B-05-1-2

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity
3B-05-1-EU1	Small Kettle 1	3B-05-1-CE1, Whirl Wet 100 Dust Collection [Wet Scrubber]	Explosives	975 lb/hr
3B-05-1-EU2	Grid Melter 1			700 lb/hr
3B-05-1-EU3	Small Kettle 2			975 lb/hr
3B-05-1-EU4	Grid Melter 2			700 lb/hr
3B-05-1-EU5	Mixing Kettle 1			3,500 lb/hr
3B-05-1-EU6	Mixing Kettle 2			3,500 lb/hr
3B-05-1-EU7	Pouring Machine 1			3,000 lb/hr
3B-05-1-EU8	Pouring Machine 2			3,000 lb/hr
3B-05-1-EU9	Feeder/Hopper System 1			1,250 lb/hr
3B-05-1-EU10	Feeder/Hopper System 2			1,250 lb/hr
3B-05-1-EU11	Weigh Station 1			350 lb/hr
3B-05-1-EU12	Weigh Station 2			350 lb/hr
3B-05-1-EU13	Screening table 1			1,250 lb/hr
3B-05-1-EU14	Screening table 2			1,250 lb/hr
3B-05-1-EU15	Reclaimed Round Wash			82 lb/hr
3B-05-1-EU16	Ambient Cooling	3B-05-1-CE2, Whirl Wet 40 Dust Collection [Wet Scrubber]	TNT	2,700 lb/hr
3B-05-1-EU17	Cooling Oven			12,960 lb/hr

Authority for Requirement: DNR Construction Permit 26-A-339

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40% [(1)]
Authority for Requirement: DNR Construction Permit 26-A-339
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 1.37 lb/hr
Authority for Requirement: DNR Construction Permit 26-A-339

Pollutant: Particulate Matter (PM)
Emission Limit(s): 1.37 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 26-A-339
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements

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

A. The emission units in listed above, shall not exceed 4,160 hours in a 12-month rolling period.
   (1) The permittee shall maintain the following monthly records:
   (2) The total of hours of operation for the month of the Line 3B-05-1 emission units (see Table above); and
   (3) The 12-month rolling total of hours of operation for the Line 3B-05-1 emission units (see Table above).

B. The water level and differential pressure shall be recorded for each Whirl Wet Dust Collection [wet scrubber], 3B-05-1-CE1 and 3B-05-1-CE2. At least once per operating day, the owner or operator shall record for each wet scrubber (3B-05-1-CE1 and 3B-05-1-CE2):
   (1) The date and time;
   (2) The water level in relation to the design limit; and
   (3) Static pressure drop across both the main unit and the downstream mist eliminator in relation to the wet scrubbers' normal range for static pressures drops.

C. The owner or operator shall operate and maintain the equipment covered under this permit according to the manufacturer's instructions.
   (1) The owner or operator shall keep a log of all maintenance and inspection activities performed on the equipment in order to demonstrate that it was maintained in accordance with the manufacturer's instructions or in accordance with the facility's maintenance plan.
   (2) At a minimum, this log shall include:
      a. The date that any inspection and/or maintenance was performed on the control devices;
      b. Any issues identified during the inspection;
      c. Any issues addressed during the maintenance activities and the date each issue was resolved; and
      d. Identification of the staff member or third party performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 26-A-339

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft., from the ground): 37
Stack Opening, (inches, dia.): 14

Exhaust Flow Rate (scfm): 5,800
Exhaust Temperature (°F): 400
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 26-A-339

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.

Compliance Demonstration

Pollutant	Compliance Methodology	Frequency	Test Run Time	Test Method
PM – State	Stack Test(1)	Initial	1 hour	40 CFR 60, Appendix A, Method 5 40 CFR 51, Appendix M Method 202
PM_{10}	Stack Test(1)	Initial	1 hour	40 CFR 51, Appendix M, 201A with 202

(1)PM and PM10 stack testing, at a minimum, shall be completed on one of the two emission points for the melt, pour, cool line 3B-05 lines (EP 3B-05-1-2 or EP 3B-05-2-2). At a minimum, the melt/pour emission units of the process line (either 3B-05-1 or 3B-05-2) shall be operational during their respective emission point's stack test. If testing on one of these emission points demonstrates compliance with the emission limits specified above, the other emission point will be considered in compliance if stack parameters (i.e., stack exhaust flowrate) are comparable to the testing results.

Testing is due within 60 days after achieving the maximum production rate but not later than 180 days after the initial startup date of the proposed equipment for the addition of new equipment or the physical modification of existing equipment or control equipment.

Authority for Requirement: DNR Construction Permit 26-A-339

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3B-05-2-2

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity
3B-05-2-EU1	Mixing Kettle 1	3B-05-2-CE1, Whirl Wet 100 Dust Collection [Wet Scrubber]	Explosives	3,500 lb/hr
3B-05-2-EU2	Mixing Kettle 2			3,500 lb/hr
3B-05-2-EU3	Pouring Machine 1			3,000 lb/hr
3B-05-2-EU4	Pouring Machine 2			3,000 lb/hr
3B-05-2-EU5	Feeder/Hopper 1			1,250 lb/hr
3B-05-2-EU6	Feeder/hopper 2			1,250 lb/hr
3B-05-2-EU7	Reclaimed Round Wash			82 lb/hr
3B-05-2-EU8	Weigh Station 1			350 lb/hr
3B-05-2-EU9	Small Kettle 1			975 lb/hr
3B-05-2-EU10	Grid Melter 1			700 lb/hr
3B-05-2-EU11	Small Kettle 2			975 lb/hr
3B-05-2-EU12	Grid Melter 2			700 lb/hr
3B-05-2-EU13	Weigh Station 2			350 lb/hr
3B-05-2-EU14	Screening Table 1			1,250 lb/hr
3B-05-2-EU15	Screening Table 2			1,250 lb/hr
3B-05-2-EU17	Ambient Cooling	3B-05-2-CE2, Whirl Wet 40 Dust Collection [Wet Scrubber]		2,700 lb/hr
3B-05-2-EU18	Cooling Oven			12,960 lb/hr

Authority for Requirement: DNR Construction Permit 26-A-340

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40% [(1)]
Authority for Requirement: DNR Construction Permit 26-A-340
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 1.37 lb/hr
Authority for Requirement: DNR Construction Permit 26-A-340

Pollutant: Particulate Matter (PM)
Emission Limit(s): 1.37 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 26-A-340
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements

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

A. The emission units listed above, shall not exceed 4,160 hours in a 12-month rolling period.
   (4) The permittee shall maintain the following monthly records:
   (5) The total of hours of operation for the month of the Line 3B-05-2 emission units (see Table above); and
   (6) The 12-month rolling total of hours of operation for the Line 3B-05-2 emission units (see Table above).

B. The water level and differential pressure shall be recorded for each Whirl Wet Dust Collection [wet scrubbers], 3B-05-2-CE1 and 3B-05-2-CE2. At least once per operating day, the owner or operator shall record for each wet scrubber (3B-05-2-CE1 and 3B-05-2-CE2):
   (4) The date and time;
   (5) The water level in relation to the design limit; and
   (6) Static pressure drop across both the main unit and the downstream mist eliminator in relation to the wet scrubbers' normal range for static pressures drops.

C. The owner or operator shall operate and maintain the equipment covered under this permit according to the manufacturer's instructions.
   (3) The owner or operator shall keep a log of all maintenance and inspection activities performed on the equipment in order to demonstrate that it was maintained in accordance with the manufacturer's instructions or in accordance with the facility's maintenance plan.
   (4) At a minimum, this log shall include:
      e. The date that any inspection and/or maintenance was performed on the control devices;
      f. Any issues identified during the inspection;
      g. Any issues addressed during the maintenance activities and the date each issue was resolved; and
      h. Identification of the staff member or third party performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 26-A-340

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft., from the ground): 30
Stack Opening, (inches, dia.): 26

Exhaust Flow Rate (scfm): 10,000
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 26-A-340

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.

Compliance Demonstration

Pollutant	Compliance Methodology	Frequency	Test Run Time	Test Method
PM – State	Stack Test(1)	Initial	1 hour	40 CFR 60, Appendix A, Method 5 40 CFR 51, Appendix M Method 202
PM_{10}	Stack Test(1)	Initial	1 hour	40 CFR 51, Appendix M, 201A with 202

(1) PM and PM10 stack testing, at a minimum, shall be completed on one of the two emission points for the melt, pour, cool line 3B-05 lines (EP 3B-05-1-2 or EP 3B-05-2-2). At a minimum, the melt/pour emission units of the process line (either 3B-05-1 or 3B-05-2) shall be operational during their respective emission point's stack test. If testing on one of these emission points demonstrates compliance with the emission limits specified above, the other emission point will be considered in compliance if stack parameters (i.e., stack exhaust flowrate) are comparable to the testing results.

Testing is due within 60 days after achieving the maximum production rate but not later than 180 days after the initial startup date of the proposed equipment for the addition of new equipment or the physical modification of existing equipment or control equipment.

Authority for Requirement: DNR Construction Permit 26-A-340

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

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

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

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒
Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3B-05-1-3 and 3B-05-2-3

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
3B-05-1-3	3B-05-1-18	Hitachi Barcode Printer	Ink	0.008 gal/hr	26-A-357
3B-05-2-3	3B-05-2-19	Hitachi Barcode Printer	Ink	0.01 gal/hr	26-A-358

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 40% [(1)]
Authority for Requirement: DNR Construction Permit 26-A-357, 26-A-358
567 IAC 23.3(2)"d"

[(1)]An exceedance of the indicator opacity of '*No Visible Emissions*' at the opening of the building/room containing the emission unit will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.01 gr/scf
Authority for Requirement: DNR Construction Permit 26-A-357, 26-A-358
567 IAC 23.4(13)

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

A. The emission units listed in the table above shall not exceed a combined usage of 500 gallons of ink per twelve-month period, rolled monthly.
   (1) At the end of each month, record the type and number of gallons of material used in these units over the previous month.
   (2) At the end of each month, record the type and number of gallons of material used in these unit over the previous twelve (12) months.
   (3) For the purposes of calculating emissions, all VOC/HAP may be considered emitted on the day the materials are delivered to the emission units.
B. The ink used in these emission units shall not exceed the following,
   (1) a maximum VOC content of 6.0 lb/gal; and
   (2) a maximum single HAP (SHAP) and/or total HAP (THAP) content of 1.5 lb/gal.
C. The owner or operator shall maintain a copy of the Safety Data Sheet (SDS), or equivalent, of all VOC and HAP-containing materials received/used in the emission

units, which demonstrate the VOC and HAP content of each material.
Authority for Requirement: DNR Construction Permit 26-A-357, 26-A-358

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

Discharge Style: Vented Indoors
Authority for Requirement: DNR Construction Permit 26-A-357, 26-A-358

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 3B-12-1 and 3B-12-2

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
3B-12-1	3B-12-1	Nomenclature Printer 1	Ink	4.5 lb/day, Ink	26-A-359
3B-12-2	3B-12-2	Nomenclature Printer 2	Ink	4.5 lb/day, Ink	26-A-360

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 40%[(1)]
Authority for Requirement: DNR Construction Permit 26-A-359, 26-A-360
567 IAC 23.3(2)"d"

[(1)]An exceedance of the indicator opacity of '*No Visible Emissions*' at the opening of the building/room containing the emission unit will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.01 gr/scf
Authority for Requirement: DNR Construction Permit 26-A-359, 26-A-360
567 IAC 23.4(13)

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

A. The emission units listed in the table above shall not exceed a combined usage of 500 gallons of ink per twelve-month period, rolled monthly.
   (1) At the end of each month, record the type and number of gallons of material used in these units over the previous month.
   (2) At the end of each month, record the type and number of gallons of material used in these unit over the previous twelve (12) months.
   (3) For the purposes of calculating emissions, all VOC/HAP may be considered emitted on the day the materials are delivered to the emission units.
B. The ink used in these emission units shall not exceed the following,
   (1) a maximum VOC content of 6.0 lb/gal; and
   (2) zero single (0.0 lb/gal) HAP (SHAP) and/or total HAP (THAP) shall be present in the ink.
C. The owner or operator shall maintain a copy of the Safety Data Sheet (SDS), or

equivalent, of all VOC and HAP-containing materials received/used in the emission units, which demonstrate the VOC and HAP content of each material.

Authority for Requirement: DNR Construction Permit 26-A-359, 26-A-360

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Discharge Style: Vented Indoors

Authority for Requirement: DNR Construction Permit 26-A-359, 26-A-360

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 4B-22-5

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
4B-22-5	Inspection Table	4B-22/CE5: Multi-Wash Scrubber	Explosive Material	4 lb/hr	00-A-244

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: 40%(1)
Authority for Requirement: DNR Construction Permit 00-A-244
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limit: 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 00-A-244
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

There are no applicable requirements at this time.

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

Stack Height (feet, from the ground): 29
Stack Opening (inches, diameter): 9
Stack Exhaust Flow Rate (scfm): 1,200
Stack Exhaust Temperature (°F): Ambient
Discharge Style: Vertical with obstruction
Authority for Requirement: DNR Construction Permit 00-A-244

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may

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

Monitoring Requirements

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 4B-22-10

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
4B-22-2	Estane Application	4B-22/CE 1: Dry Filter	Estane Mixture	8.47 gal/hr	97-A-529

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit: 40%[(1)]
Authority for Requirement: DNR Construction Permit 97-A-529
567 IAC 23.3(2)"d"

[(1)] If visible emissions are observed other than startup, shutdown, or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

Pollutant: Particulate Matter (PM_{10})
Emission Limit: 0.18 lb/hr
Authority for Requirement: DNR Construction Permit 97-A-529

Pollutant: Particulate Matter (PM)
Emission Limit: 0.01 gr/scf
Authority for Requirement: DNR Construction Permit 97-A-529
567 IAC 23.4(13)

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits

A. The use of adhesive in the spray operation administered under DNR permit 97-A-529 shall not exceed 2,000 gallons per rolling twelve month period.

Reporting & Record keeping

A. The permit holder shall maintain records on the premises to show the rolling twelve-month total use of adhesive in the spray operation administered under DNR permit 97-A-529.

Authority for Requirement: DNR Construction Permit 97-A-529

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

Stack Height (feet): 19
Stack Diameter (inches): 18
Stack Exhaust Flow Rate (scfm): 2,100
Stack Temperature (^{o}F): 70
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 97-A-529

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** ☒

Dry Filter Agency Operation and Maintenance Plan

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 4B-22-12

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
4B-22-4	Adhesive/cleaning and painting	4B-22/CE 12: Dry Filter	Paint, adhesive, cleaning solvent	4,333 gal/yr	96-A-835-S1

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit: 40% [(1)]
Authority for Requirement: DNR Construction Permit 96-A-835-S1
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limits: 0.01 gr/scf
Authority for Requirement: DNR Construction Permit 96-A-835-S1
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit: 19.5 tons/yr
Authority for Requirement: DNR Construction Permit 96-A-835-S1

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits

A. Paint usage in this booth shall not exceed 0.5 gallon per hour, based on the average hourly usage rate for all paint used in one day.
B. Material usage in this booth shall not exceed 4,333 gallons per any rolling 12-month period. This shall include paint, adhesive and cleaning solvent.
C. The VOC content of any material used in this booth shall not exceed 9.0 pounds per gallon.

Reporting & Record keeping

A. The permittee shall maintain the following daily records on each day that paint is used:
   1. the total amount of paint used (gallons);

2. the number of hours that the booth was used for painting; and
3. the average hourly paint usage rate.

B. The permittee shall maintain the following monthly records:
1. the total amount of paint, adhesive and cleaning solvent used in the booth (gallons);
2. the rolling, 12-month total of the amount of paint, adhesive and cleaning solvent used in the booth (gallons); and
3. the identification and the VOC content of each paint, adhesive and cleaning solvent used in the booth.

Authority for Requirement: DNR Construction Permit 96-A-835-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 15
Stack Diameter (inches): 12
Exhaust Flow Rate (scfm): 900
Exhaust Temperature (^{o}F): 70
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 96-A-835-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** ☒

Dry Filter Agency Operation and Maintenance Plan

Weekly

- Inspect the paint 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.

Record Keeping and Reporting

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

Quality Control

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 4B-22-13

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
4B-22-13	Adhesive Application & Cleaning Operations	Adhesive and Cleaning Solvent	2,890 gal/yr	96-A-818-S1

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: 13.1 tons/yr
Authority for Requirement: DNR Construction Permit 96-A-818-S1

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

Operating Limits
A. The total amount of material (e.g. adhesive, cleaning solvent) used in this emissions unit shall not exceed 2,890 gallons per any rolling, 12-month period.
B. The as-applied VOC content of any material used in this emissions unit shall not exceed 9.0 pounds per gallon.

Reporting & Record keeping:
A. The permittee shall maintain the following monthly records:
   1. The identification and the as-applied VOC content of each material used in the emissions unit.
   2. The total amount of material used in the emissions unit (gallons).
   3. The rolling, 12-month total of the amount of material used in the emissions unit (gallons).

Authority for Requirement: DNR Construction Permit 96-A-818-S1

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

Stack Height (feet): 25
Stack Diameter (inches): 12
Exhaust Flow Rate (scfm): 815
Exhaust Temperature (^{o}F): 70
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 96-A-818-S1

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 4B-99-1

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
4B-99-1	Vacuum House	CE 4B-99-1: Bag Filter	Explosive/Inert Powder	45 lb/day	01-A-1081

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: 40%[(1)]
Authority for Requirement: DNR Construction Permit 01-A-1081
567 IAC 23.3(2)"d"

[(1)] 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 (PM)
Emission Limits: 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 01-A-1081
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

There are no applicable requirements at this time.

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

Stack Height (feet): 8
Stack Diameter (inches): 10
Exhaust Flow Rate (scfm): 520
Exhaust Temperature (^{o}F): 70
Discharge Style: Downward
Authority for Requirement: DNR Construction Permit 01-A-1081

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

emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 4B-02-5, 4B-02-6

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
4B-02-5	4B-02-5	Natural Gas Boiler #1	CE4: Flue Gas Recirculation (FGR) CE5: Low NOx Burner (LNB)	Natural Gas	6.123 MMBtu/hr 6,123 cubic feet natural gas/hr 2,402 gal propane/hr (Each)	24-A-118
4B-02-6	4B-02-6	Natural Gas Boiler #2	CE7: FGR CE6: LNB			24-A-119

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40% (1)
Authority for Requirement: DNR Construction Permit 24-A-118, 24-A-119
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.25 lb/hr, 0.6 lb/MMbtu
Authority for Requirement: DNR Construction Permit 24-A-118, 24-A-119
567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500ppm_v
Authority for Requirement: DNR Construction Permit 24-A-118, 24-A-119
567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NOx)
Emission Limit(s): 1.25 lb/hr
Authority for Requirement: DNR Construction Permit 24-A-118, 24-A-119

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

A. Each emission unit (EU 4B-02-5, EU 4B-02-6) is limited to firing on natural gas and propane.

Authority for Requirement: DNR Construction Permit 24-A-118, 24-A-119

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

Authority for Requirement: 40 CFR Part 63 Subpart DDDDD

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

Stack Height, (ft., from the ground): 20
Stack Opening, (inches, dia.): 24
Exhaust Flow Rate (scfm): 1,200
Exhaust Temperature (°F): 470
Discharge Style: Unobstructed Vertical
Authority for Requirement: DNR Construction Permit 24-A-118, 24-A-119

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 4B-02-10

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
4B-02-10	Emergency Generator	Diesel	463 bhp, 24.9 gal/hr	24-A-120

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: DNR Construction Permit 24-A-120
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.25 lb/hr
Authority for Requirement: DNR Construction Permit 24-A-120

Pollutant: Nitrogen Oxides (NOx)
Emission Limit(s): 3.25 lb/hr
Authority for Requirement: 567 IAC 23.3(2)"d"

See NSPS requirements below for additional emission limits.

Operational Limits & Reporting/Record keeping Requirements

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

A. The engine is limited to operating a maximum of 500 hours in any rolling 12-month period.
B. The engine:
   1. Is limited to operate as an emergency stationary internal combustion engine as defined in 40 CFR §60.4219 and in accordance with 40 CFR §60.4211(f). There is no time limit on the use of the engine in emergency situations provided that the annual hourly limit established in Condition A. is not exceeded. In accordance with 40 CFR §60.4211(f)(2), the engine is limited to operate a maximum of 100 hours per calendar year for maintenance checks and readiness testing.
   2. Is also allowed to operate up to 50 hours per calendar year in non-emergency situations in accordance with 40 CFR §60.4211(f)(3), but the 50 hours are counted toward the 100

hours provided for maintenance and testing. The 50 hours per calendar year for non-emergency operation cannot be used for peak shaving or non-emergency demand response or to generate income for the facility to supply power to the electric grid or otherwise supply non-emergency power as part of a financial arrangement with another entity.

C. In accordance with 40 CFR §60.4209(a), the engine shall be equipped with a non-resettable hour meter.
D. In accordance with 40 CFR §60.4214(b), the owner or operator must keep records of the engine in emergency and non-emergency service and must record the time of the operation of the engine and the reason the engine was operated during that time.
E. The owner or operator shall maintain the following monthly records:
   1. the number of hours that the engine operated for maintenance checks and readiness testing;
   2. the number of hours that the engine operated for allowed non-emergency service;
   3. the number of hours that the engine operated for emergency service;
   4. the total number of hours that the engine operated; and
   5. the rolling 12-month total amount of the number of hours that the engine operated.
F. The owner or operator shall maintain the following annual records:
   1. the number of hours that the engine operated for maintenance checks and readiness testing;
   2. the number of hours that the engine operated for allowed non-emergency operations; and
   3. the total number of hours that the engine operated for maintenance checks, readiness testing, and allowed non-emergency operations.
G. This engine is limited to firing on diesel fuel.
H. In accordance with §60.4207(b), the diesel fuel burned in this engine shall meet the following specifications from 40 CFR 1090.305 for ultra-low sulfur diesel (ULSD):

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

   (1) The owner or operator shall comply with the requirements listed above by one of the following methods:
      a. have the fuel supplier certify that the fuel delivered meets the of non-road diesel fuel ULSD as defined in 40 CFR 1090.80; or
      b. obtain a fuel analysis from the supplier showing the sulfur content and cetane index or aromatic content of the fuel delivered; or
      c. perform an analysis of the fuel to determine the sulfur content and cetane index or aromatic content of the fuel received.
I. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in 40 CFR §60.4211(g).
J. In accordance with 40 CFR §60.4211(a), the engine shall be operated and maintained in accordance with the manufacturer's emission-related written instructions. Except as permitted in 40 CFR §60.4211(g), the owner or operator may only change emission-related engine settings that are permitted by the manufacturer.
K. The owner or operator shall complete all applicable monitoring, compliance, notification, reporting, and recordkeeping requirements as required by NSPS Subpart IIII not specifically

listed in this permit:

1. The owner or operator of the engine shall follow the monitoring requirements of 40 CFR §60.4209.
2. The owner or operator of the engine shall follow the compliance requirements of 40 CFR §60.4211.
3. The owner or operator of the engine shall follow the notification, reporting, and recordkeeping requirements of 40 CFR §60.4214(b).

Authority for Requirement: DNR Construction Permit 24-A-120
40 CFR 60 Subpart IIII
567 IAC 23.1(2)"yyy"

NSPS Applicability

(7) In accordance with 40 CFR §60.4211(c), the engine must be certified by its manufacturer to comply with the emissions standards for emergency engines from 40 CFR §60.4205(b) and 40 CFR §60.4202(a)(2) or 40 CFR §60.4202(b)(2). The emission standards that the engine must be certified by the manufacturer to meet are:

Pollutant	Emission Standard[(1)]	Basis/Reference
Particulate Matter (PM)	0.20 grams/kW-hr	40 CFR Part 1039, Appendix I
NMHC[(3)] + NO_x	4.0 grams/kW-hr	40 CFR Part 1039, Appendix I[(2)]
Carbon Monoxide (CO)	3.5 grams/kW-hr	40 CFR Part 1039, Appendix I[(2)]
Opacity – acceleration mode	20%	40 CFR §1039.105(b)(1)
Opacity – lugging mode	15%	40 CFR §1039.105(b)(2)
Opacity – peaks in acceleration or lugging modes	50%	40 CFR §1039.105(b)(3)

[(1)]grams/kW-hr = grams per kilowatt hour.
[(2)]Table 2 of Appendix I is for Tier 2 Emission Standards and Table 3 of Appendix I is for Tier 3 Emissions Standards.
[(3)]Non-methane hydrocarbon.

(8) In accordance with 40 CFR §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 40 CFR §60.4205(b) and 40 CFR §60.4202(a)(2) or 40 CFR §60.4202(b)(2) 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 40 CFR §60.4211(g).

Authority for Requirement: DNR Construction Permit 24-A-120
40 CFR 60 Subpart IIII
567 IAC 23.1(2)"yyy"

NESHAP Applicability
This engine is a new reciprocating internal combustion engine located at a major source of HAP, and it is rated less than or equal to 500 horsepower (hp). In accordance with 40 CFR §63.6590 (c)(6), 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: DNR Construction Permit 24-A-120
40 CFR 63 Subpart ZZZZ
567 IAC 23.1(4)"cz"

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

Stack Height, (ft., from the ground): 6
Stack Opening, (inches, dia.): 5
Exhaust Flow Rate (scfm): 850
Exhaust Temperature (°F): 930
Discharge Style: Unobstructed Vertical
Authority for Requirement: DNR Construction Permit 24-A-120

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 300-148-1

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
300-148-1	Maintenance Paint Booth	300-148/CE1: Dry Filter	Paint	10 oz/min	03-A-674

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit: 40%[(1)]
Authority for Requirement: DNR Construction Permit 03-A-674
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limits: 0.01 gr/scf
Authority for Requirement: DNR Construction Permit 03-A-674
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)
Emission Limits: 6.83 tons/yr
Authority for Requirement: DNR Construction Permit 03-A-674

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits

A. Maintenance Paint Booth (300-148-1) is limited to 1,500 gallons of material (solvent & paint) per rolling 12-month period.
B. The VOC content of materials (paint & solvent) used in Maintenance Paint Booth (300-148-1) shall not exceed 9.1 pounds per gallon.

Reporting & Record keeping

A. Record on a monthly basis, all materials (paint & solvent used in Maintenance Paint Booth (300-148-1) in gallons. Calculate and record rolling 12-month totals.

B. Record the VOC content of all materials (paint & solvent) used in Maintenance Paint Booth (300-148-1) in pounds per gallon.
C. Retain all Material Safety Data Sheets of materials used in Maintenance Paint Booth (300-148-1).

Authority for Requirement: DNR Construction Permit 03-A-674

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 32.75
Stack Diameter (inches): 33
Exhaust Flow Rate (scfm): 12,840
Exhaust Temperature (^{o}F): Ambient
Discharge Style: Vertical, Unobstructed
Authority for Requirement: DNR Construction Permit 03-A-674

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** ☒

Dry Filter Agency Operation and Maintenance Plan

Weekly

- Inspect the paint 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.

Record Keeping and Reporting

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

Quality Control

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 100-101-5

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
100-101-5	Emergency Generator for Administration Department	Diesel	1,000 kW 75 gal/hr	10-A-476-S2

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit: 40%(1)
Authority for Requirement: DNR Construction Permit 10-A-476-S2
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limits: 1.47 lb/hr
Authority for Requirement: DNR Construction Permit 10-A-476-S2

Pollutant: Particulate Matter (PM)
Emission Limits: 1.47 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 10-A-476-S2
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limits: 2.5 lb/MMBtu
Authority for Requirement: DNR Construction Permit 10-A-476-S2
567 IAC 23.3(3)"b"(2)

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit: 0.95 lb/hr, 0.24 tpy
Authority for Requirement: DNR Construction Permit 10-A-476-S2

NSPS Emission Limits

Pollutant	Limit	Reference (567 IAC)
Particulate Matter (PM) (Filterable Only)	0.20 g/KW-hr[1]	23.1(2)"yyy"[2]
Opacity	See Footnote 3	23.1(2)"yyy"[2]
Nitrogen Oxides (NO_X) + Non-Methane Hydrocarbons (NMHC)	6.4 g/KW-hr[1]	23.1(2)"yyy"[2]
Carbon Monoxide (CO)	3.5 g/KW-hr[1]	23.1(2)"yyy"[2]
Fuel Sulfur Requirements beginning 10/01/2007	Max 500 ppm Sulfur and Min Cetane Index = 40 or Max Aromatic content = 35%vol	23.1(2)"yyy"[2]
Fuel Sulfur Requirements beginning 10/01/2010	Max 15 ppm Sulfur and Min Cetane Index = 40 or Max Aromatic content = 35%vol	23.1(2)"yyy"[2]

[1] Standard is expressed as the average of 3 test runs.
[2] Iowa reference to NSPS Subpart IIII (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines; 40 CFR §60.4200 – 40 CFR §60.4219).
[3] Per 40 CFR 1039 Appendix I, exhaust opacity shall not exceed 20% during acceleration mode, 15% during lugging mode, and 50% during the peaks in either the acceleration or lugging modes.

Authority for Requirement: DNR Construction Permit 10-A-476-S2

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits

A. This emissions unit may only operate 500 hours per rolling twelve month period.
B. This emissions unit may only utilize 37,500 gallons of diesel fuel per rolling 12-month period.

Reporting & Record keeping

A. The owner or operator shall record the monthly hours of operation for each month.
B. Record a twelve month rolling total for the hours of operation in hours per year, for each month of operation.
C. Determine the annual amount of fuel used by the generator on a rolling-12-month basis for each month of operation.

Authority for Requirement: DNR Construction Permit 10-A-476-S2

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)(i) this emergency engine, located at a major source, is a new stationary RICE as it was constructed on or after December 19, 2002.

According to 40 CFR 63.6590(b)(1)(i), a new emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions is not subject to the requirements of 40 CFR 63 Subpart ZZZZ and Subpart A except for initial notification requirements of 40 CFR 63.6645(f).

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ
567 IAC 23.1(4)"cz"
DNR Construction Permit 10-A-476-S2

NSPS Applicability

Emission Standards (for engines with displacement (L/cyl) < 10):
See NSPS Emission Limits section above.

Fuel Requirements:
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:

A. 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)).
   1. Operating and maintaining the engine and control device according to the manufacturer's emission-related written instructions;
   2. Changing only those emission-related settings that are permitted by the manufacturer; and
   3. Meeting the requirements of 40 CFR 1068, as they apply to you.

B. 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).

C. 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
500 < HP	Within 1 year of engine startup, or non-permitted action [(1)]	Every 8,760 hours or 3 years, whichever comes first

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

Operating and Recordkeeping Requirements

A. 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
130 ≤ KW (175 ≤ HP)	2011

B. There is no time limit on use for emergency situations. 40 CFR 60.4211(f)(1).
C. 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.
D. 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.
E. If your emergency engine has a maximum engine power of more than 100 HP and operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 40 CFR 60.4211(f)(2)(ii) and (iii) or operates for the purposes specified in 40 CFR 60.4211(f)(3)(i), you must submit an annual report according to the requirements in 40 CFR 60.4214(d)(1) through (3). See 40 CFR 60.4214(d) for more information.

Authority for Requirement: DNR Construction Permit 10-A-476-S2
40 CFR Part 60, Subpart IIII
567 IAC 23.1(2)"yyy"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 10.5
Stack Diameter (inches): 12
Exhaust Flow Rate (scfm): 9,534
Exhaust Temperature (°F): 910
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 10-A-476-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 24.108(3)

Emission Point ID Number: 200-101-2-1

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
200-101-2-1	Fire/Security/Safety Building Emergency Generator	Diesel	463 hp 22 gal/hr	Exempt

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: 40%(1)
Authority for Requirement: 567 IAC 23.3(2)"d"

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

Pollutant: Sulfur Dioxide (SO_2)
Emission Limits: 2.5 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(3)"b"(2)

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

Operating Limits
1. No person shall allow, cause or permit the combustion of number 1 or number 2 fuel oil exceeding a sulfur content of 0.5 percent by weight.
Authority for Requirement: 567 IAC 23.3(3)"b"(1)

Reporting & Record keeping:
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 24.108(3)

1. The facility claims small unit exemption for this unit under 567 IAC 22.1(2)"w". Records should be kept in accordance with 567 IAC 22.1(2)"w"(3).
Authority for Requirement: 567 IAC 22.1(2)"w"
567 IAC 24.108(3)

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)(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"
567 IAC 24.108(3)

NSPS Applicability
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	225 ≤ kW < 450 (302 ≤ HP < 604)	2007+	4.0 (3.0)	3.5 (2.6)	0.20 (0.15)	(1)	(2)

(1) Exhaust opacity must not exceed: 20 percent during the acceleration mode; 15 percent during the lugging mode; and 50 percent during the peaks in either the acceleration or lugging modes.
(2) 40 CFR 1039 Appendix I

Fuel Requirements:
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:
A. 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)).
   1. Operating and maintaining the engine and control device according to the manufacturer's emission-related written instructions;
   2. Changing only those emission-related settings that are permitted by the manufacturer; and
   3. Meeting the requirements of 40 CFR 1068, as they apply to you.
B. 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).
C. If you do not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change

emission-related settings in a way that is not permitted by the manufacturer, you must keep a maintenance plan and records of conducted maintenance to demonstrate compliance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct the following performance testing in accordance with 40 CFR 60.4212 to demonstrate compliance with applicable emission standards. You are required to notify the DNR 30 days prior to the test date and are required to submit a stack test report to the DNR within 60 days after the completion of the testing. See 40 CFR 60.4211(g) for additional information.

Maximum Engine Power	Initial Test	Subsequent Test
100 ≤ HP ≤ 500	Within 1 year of engine startup, or non-permitted action [(1)]	Not required

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

Operating and Recordkeeping Requirements

A. 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
130 ≤ KW (175 ≤ HP)	2011

B. There is no time limit on use for emergency situations. 40 CFR 60.4211(f)(1).
C. 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.
D. 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.
E. If your emergency engine has a maximum engine power of more than 100 HP and operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 40 CFR 60.4211(f)(2)(ii) and (iii) or operates for the purposes specified in 40 CFR 60.4211(f)(3)(i), you must submit an annual report according to the requirements in 40 CFR 60.4214(d)(1) through (3). See 40 CFR 60.4214(d) for more information.

Authority for Requirement: 40 CFR Part 60 Subpart IIII
567 IAC 23.1(2)"yyy"
567 IAC 24.108(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 24.108(3)

Emission Point ID Number: 200-211-2

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
200-211-2	Diesel Generator Cummins	Diesel	80 kW 2.0 gal/hr	96-A-520-S4

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit: 40%[(1)]
Authority for Requirement: DNR Construction Permit 96-A-520-S4
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limits: 0.17 lb/hr
Authority for Requirement: DNR Construction Permit 96-A-520-S4

Pollutant: Particulate Matter (PM)
Emission Limits: 0.1 gr/dscf, 0.17 lb/hr
Authority for Requirement: DNR Construction Permit 96-A-520-S4
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limits: 2.5 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(3)"b"(2)

Pollutant: Nitrogen Oxide (NO_x)
Emission Limit: 1.85 lb/hr
Authority for Requirement: DNR Construction Permit 96-A-520-S4

Operational Limits & Reporting/Record keeping Requirements

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

A. This engine is limited to operating a maximum of 250 hours in any rolling 12-month period.
B. The sulfur content of the diesel fuel combusted in this emission unit shall not exceed 0.5

percent by weight.

1. The owner or operator shall maintain records that demonstrate the sulfur content as percent by weight of the diesel fuel used.

C. In accordance with 40 CFR §63.6640(f):
   1. Any operation other than emergency operation, maintenance and testing and operation in non-emergency situations (up to) 50 hours per year is prohibited.
   2. There is no time limit on the use of emergency stationary RICE in emergency situations, provided that the annual hourly limit established in Condition A. is not exceeded
   3. The owner or operator may operate their emergency stationary RICE up to 100 combined hours per calendar year for maintenance checks and readiness testing. (See 40 CFR 63.6640(f)(2) for additional information and restrictions.)
   4. The owner or operator may operate their emergency stationary RICE up to 50 hours per calendar year for non-emergency situations, but those 50 hours are counted toward the 100 hours of maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

D. In accordance with 40 CFR §63.6625(e), the owner or operator shall operate and maintain the stationary RICE according to the manufacturer's emission-related written instructions or develop their own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

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

F. In accordance with 40 CFR §63.6625(h), the owner or operator shall minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

G. In accordance with NESHAP Subpart ZZZZ Table 2C, the owner or operator shall:
   1. Change oil and filter every 500 hours of operation or 1 year + 30 days, whichever comes first; (See 63.6625(i) for the oil analysis option to extend time frame of requirements.)
   2. Inspect air cleaner every 1,000 hours of operation or within 1 year +30days, whichever comes first, and replace as necessary;
   3. Inspect all hoses and belts every 500 hours of operation or within 1 year +30days, whichever comes first, and replace as necessary.

H. The owner or operator shall maintain the following monthly records:
   1. the number of hours that the engine operated for maintenance checks and readiness testing;
   2. the number of hours that the engine operated for allowed non-emergency operations;
   3. the total number of hours that the engine operated; and
   4. the rolling 12-month total amount of the number of hours that the engine operated.

I. The owner or operator shall maintain the following annual records:
   1. the number of hours that the engine operated for maintenance checks and readiness testing;
   2. the number of hours that the engine operated for allowed non-emergency operations;
   3. the total number of hours that the engine operated for maintenance checks, readiness testing, and allowed non-emergency operations.

J. In accordance with 40 CFR §63.6655, the owner or operator shall:
   1. Keep records of the maintenance conducted on the stationary RICE.

Authority for Requirement: DNR Construction Permit 96-A-520-S4
40 CFR 63 Subpart ZZZZ
567 IAC 23.1(4)"cz"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 9
Stack Diameter (inches): 8
Exhaust Flow Rate (scfm): 930
Exhaust Temperature (°F): 850
Discharge Style: Vertical unobstructed
Authority for Requirement: DNR Construction Permit 96-A-520-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 24.108(3)

Emission Point ID Number: 300-148-20

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
300-148-20	Emergency Generator for Mechanical Department	Diesel Fuel	757 hp 500 kW 35 gal/hr	10-A-407

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: 40% (1)
Authority for Requirement: DNR Construction Permit 10-A-407
567 IAC 23.3(2)"d"

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

Pollutant: Opacity
Emission Limit: 20%
Authority for Requirement: DNR Construction Permit 10-A-407
40 CFR 1039 Appendix I

Pollutant: Particulate Matter (PM_{10})
Emission Limit: 0.73 lb/hr
Authority for Requirement: DNR Construction Permit 10-A-407

Pollutant: Particulate Matter (PM)
Emission Limit: 0.73 lb/hr, 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a"
DNR Construction Permit 10-A-407

Pollutant: Particulate Matter (PM)
Emission Limit: 0.20 g/kw-hr
Authority for Requirement: DNR Construction Permit 10-A-407
40 CFR 1039 Appendix I, Table 2

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit: 6.4 g/kw-hr
Authority for Requirement: DNR Construction Permit 10-A-407
40 CFR 1039 Appendix I, Table 2

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit: 0.12 tons/yr
Authority for Requirement: DNR Construction Permit 10-A-407

Pollutant: Carbon Monoxide (CO)
Emission Limit: 3.5 g/kw-hr
Authority for Requirement: DNR Construction Permit 10-A-407
40 CFR 1039 Appendix I, Table 2

Operational Limits & Requirements

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

Operating Limits

A. The fuel of use shall be limited to #1 or #2 fuel oil.
B. The sulfur content of the fuel oil shall not exceed 0.5% by weight.
C. The owner or operator shall install a non-resettable hour meter on the engine
D. Per 40 CFR 1090.305 the non-road diesel fuel utilized in this generator will have a maximum Sulfur content of 15 ppm.
E. This emissions unit may only operate 500 hours per rolling twelve month period.
F. This emission unit may only utilize 18,500 gallons of diesel fuel per rolling 12-month period.
G. If the engine is equipped with a diesel particulate filter to comply with the emission standards in §60.4204, the diesel particulate filter must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached.

Authority for Requirement: DNR Construction Permit 10-A-407
40 CFR 60 Subpart IIII
567 IAC 23.1(2)"yyy"

Reporting & Record keeping

A. Change oil and filter every 500 hours of operation or within 1 year + 30 days, whichever comes first;[(1)]
B. Inspect air cleaner every 1,000 hours of operation or within 1 year + 30 days, whichever comes first
C. The owner or operator shall record the monthly hours of operation for each month.
D. Inspect all hoses and belts every 500 hours of operation or within 1 year + 30 days, whichever comes first, and replace as necessary
E. Record twelve month rolling total for the hours of operation in hours per year, for each month of operation.

[1]Sources have the option to utilize an oil analysis program as described in §63.6625(i) in order to extend the specified oil change requirement in Table 2d of this subpart.

Authority for Requirement: DNR Construction Permit 10-A-407

1. Record diesel fuel usage, in gallons, on a 12-month rolling basis rolled monthly.

Authority for Requirement: 567 IAC 24.108(3)

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)(i) this emergency engine, located at a major source, is a new stationary RICE as it was constructed on or after December 19, 2002.

According to 40 CFR 63.6590(b)(1)(i), a new emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions is not subject to the requirements of 40 CFR 63 Subpart ZZZZ and Subpart A except for initial notification requirements of 40 CFR 63.6645(f).

Authority for Requirement: DNR Construction Permit 10-A-407
40 CFR Part 63 Subpart ZZZZ
567 IAC 23.1(4)"cz"

NSPS Applicability
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	560 < kW ≤ 2237 (751 < HP ≤ 3000)	2007+	6.4 (4.8)	3.5 (2.6)	0.20 (0.15)	(1)	(2)

(1) Exhaust opacity must not exceed: 20 percent during the acceleration mode; 15 percent during the lugging mode; and 50 percent during the peaks in either the acceleration or lugging modes.
(2) 40 CFR 1039 Appendix I

Fuel Requirements
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:
A. 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)).
   1. Operating and maintaining the engine and control device according to the manufacturer's emission-related written instructions;
   2. Changing only those emission-related settings that are permitted by the manufacturer; and
   3. Meeting the requirements of 40 CFR 1068, as they apply to you.
B. 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).

C. 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
500 < HP	Within 1 year of engine startup, or non-permitted action [(1)]	Every 8,760 hours or 3 years, whichever comes first

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

Operating and Recordkeeping Requirements

A. 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)).
B. There is no time limit on use for emergency situations. 40 CFR 60.4211(f)(1).
C. 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.
D. 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.
E. If your emergency engine has a maximum engine power of more than 100 HP and operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 40 CFR 60.4211(f)(2)(ii) and (iii) or operates for the purposes specified in 40 CFR 60.4211(f)(3)(i), you must submit an annual report according to the requirements in 40 CFR 60.4214(d)(1) through (3). See 40 CFR 60.4214(d) for more information.

Authority for Requirement: DNR Construction Permit 10-A-407
40 CFR Part 60, Subpart IIII
567 IAC 23.1(2)"yyy

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

Stack Height (feet): 10.5
Stack Diameter (inches): 10
Exhaust Flow Rate (scfm): 3,899
Exhaust Temperature (^{o}F): 851
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 10-A-407

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 500-139-5

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
500-139-5	Diesel Generator Caterpillar 3512	Diesel	1,000 kW 72 gal/hr	96-A-521-S4

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit: 40% (1)
Authority for Requirement: DNR Construction Permit 96-A-521-S4
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limit: 2.83 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 96-A-521-S4
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit: 2.5 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(3)"b"(2)

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit: 36.02 lb/hr
Authority for Requirement: DNR Construction Permit 96-A-521-S4

Operational Limits & Reporting/Record keeping Requirements

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

A. This engine is limited to operating a maximum of 500 hours in any rolling 12-month period.
B. The sulfur content of the diesel fuel combusted in this emission unit shall not exceed 0.5 percent by weight.
    1. The owner or operator shall maintain records that demonstrate the sulfur content as percent by weight of the diesel fuel used.
C. In accordance with 40 CFR §63.6640(f):

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

D. The owner or operator shall maintain the following monthly records:
1. the number of hours that the engine operated for maintenance checks and readiness testing;
2. the number of hours that the engine operated for allowed non-emergency operations;
3. the total number of hours that the engine operated; and
4. the rolling 12-month total amount of the number of hours that the engine operated.

E. The owner or operator shall maintain the following annual records:
1. the number of hours that the engine operated for maintenance checks and readiness testing;
2. the number of hours that the engine operated for allowed non-emergency operations;
3. the total number of hours that the engine operated for maintenance checks, readiness testing, and allowed non-emergency operations.

Authority for Requirement: DNR Construction Permit 96-A-521-S4

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)(1)(i) this emergency engine, located a major source, is an existing stationary RICE as it was constructed prior to December 19, 2002.

According to 63.6590(b)(3)(iii), an existing emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions is not subject to the requirements of 40 CFR 63 Subpart ZZZZ and Subpart A, including initial notification requirements.

Authority for Requirement: DNR Construction Permit 96-A-521-S4
40 CFR Part 63 Subpart ZZZZ
567 IAC 23.1(4)"cz"

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

Stack Height (feet): 38
Stack Diameter (inches): 12
Exhaust Flow Rate (scfm): 3,395
Exhaust Temperature (^{o}F): 885
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 96-A-521-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 24.108(3)

Emission Point ID Number: 30-144-3

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
30-144-3	Steam Boiler	Diesel	6.21 MMBtu/hr 45 gal/hr	96-A-881

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit: 40%
Authority for Requirement: DNR Construction Permit 96-A-881
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)
Emission Limit: 0.6 lb/MMBtu
Authority for Requirement: DNR Construction Permit 96-A-881
567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit: 2.5 lb/MMBtu
Authority for Requirement: DNR Construction Permit 96-A-881
567 IAC 23.3(3)"b"

Operational Limits & Reporting/Record keeping Requirements

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

A. This boiler may be fired with Fuel Oil No. 2 only.
B. The sulfur content of the fuel oil combusted in this boiler shall not exceed 0.05% by weight.
C. Records showing the type of fuel combusted in this boiler.
D. Records showing the sulfur content of any fuel combusted in this boiler, in weight percent.

Authority for Requirement: DNR Construction Permit 96-A-881

NESHAP Applicability

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

Authority for Requirement: 40 CFR Part 63 Subpart DDDDD

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

Stack Height (feet): 18.5
Stack Diameter (inches): 16
Stack Exhaust Flow Rate (acfm): 2,550
Stack Temperature (^{o}F): 375
Discharge Style: Vertical
Authority for Requirement: DNR Construction Permit 96-A-881

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 30-144-4

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
30-144-4	F Yard Burnham Boiler	Diesel	6.21 MMbtu/hr 45 gal/hr	NA

Applicable Requirements

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

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

Pollutant: Particulate Matter (PM)
Emission Limit: 0.6 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit: 2.5 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(3)"b"

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

A. The sulfur content of the fuel oil combusted in this boiler shall not exceed 0.05% by weight.
B. Records showing the sulfur content of any fuel combusted in this boiler, in weight percent.
Authority for Requirement: 567 IAC 24.108(3)

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

Authority for Requirement: 40 CFR Part 63 Subpart DDDDD

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 500-139-1

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
500-139-1	Zurn Boiler #1	CE500-139-3: Settling Chamber; Fabric Filter	Coal or Natural Gas	163.9 MMBtu/hr 52.3 MMBtu/hr on Natural Gas	81-A-150-S4
500-139-2	Zurn Boiler #2	CE500-139-4: Settling Chamber; Fabric Filter	Coal or Natural Gas	163.9 MMBtu/hr 33.25 MMBtu/hr on Natural Gas	

Monitoring Equipment: 500-139/ME3, Opacity

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: 40%
Authority for Requirement: DNR Construction Permit 81-A-150-S4
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)
Emission Limit: 0.07 lb/MMBtu
Authority for Requirement: DNR Construction Permit 81-A-150-S4

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit: 6 lb/MMBtu [(1)]; 500 ppmv [(2)]
Authority for Requirement: DNR Construction Permit 81-A-150-S4
567 IAC 23.3(3)"a"
[(1)]When the boilers burn coal or co-fire coal and natural gas.
[(2)]When the boilers burn only natural gas.

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

Operating Limits
A. Boiler #1 shall be fired by coal, natural gas or co-fired by coal and natural gas. Boiler #2 shall be fired by coal, natural gas or co-fired by coal and natural gas. If there is a natural gas curtailment, wood may be burned to start up the boilers. Prior to burning any other fuels in the two boilers, the permittee shall apply to modify this construction permit.
B. The maximum steam output capacity for each of the two boilers is 100,000 pounds per hour.

C. The permitee shall operate and maintain the fabric filter baghouse in accordance with the recommendations of the manufacturer.
D. Except during a cold startup of the boilers using wood, the fabric filter baghouses shall not be bypassed. The permittee shall comply with the requirements of IAC 24.1, Excess Emissions at all times.
E. The natural gas burner rating for Boiler #1 shall not exceed 52.3 MMBTU/hr heat input. The natural gas burner rating for Boiler #2 shall not exceed 33.25 MMBTU/hr heat input. The installation of the two burners does not cause there to be a significant emissions increase as defined in IAC 33.3(1), based on the potential to emit of operating both burners at 8,760 hours per year.

Reporting and Record keeping

A. The permittee shall maintain records on the hourly steam output of the two boilers (pounds of steam per hour).
B. The permittee shall properly operate and maintain equipment to monitor the pressure drop across each of the fabric filter baghouses while the emissions units are in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.
C. The permittee shall maintain the certificate of analysis from the supplier showing the sulfur content (% by weight) of the coal for each load of coal received. A load is defined as a shipment or shipments of coal represented by a single certificate of analysis from the supplier. The permittee shall also record the total quantity of coal received in each shipment
D. The permittee shall record monthly the total amount of coal burned in the two boilers (EU 500-139-1 and 500-139-2) and the average sulfur content of the coal burned (% by weight).
E. The permittee shall record monthly the amount of coal and natural gas burned in each boiler. The permittee shall also record the amount of coal and natural gas burned in each rolling 12-month period.
F. The permittee shall maintain records on the number of hours each year that the boilers bypass the fabric filter baghouses. The record shall indicate the date, the length of time the baghouse was bypassed and the reason why the baghouse was bypassed.

Authority for Requirement: DNR Construction Permit 81-A-150-S4

NESHAP Applicability

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

Authority for Requirement: 40 CFR Part 63 Subpart DDDDD

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 150
Stack Diameter (inches): 108
Stack Exhaust Flow Rate (scfm): 78,690[(1)]

Stack Temperature (^{o}F): 403
Discharge Style: Vertical unobstructed
Authority for Requirement: DNR Construction Permit 81-A-150-S4
(1)Maximum flowrate for both boilers combined.

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.

Stack Testing:

Pollutant – Particulate Matter (PM) (State)
Stack Test to be Completed: 10/7/2028
Test Method – 40 CFR 60, Appendix A, Method 5
40 CFR 51, Appendix M, Method 202
Authority for Requirement – 567 IAC 24.108(3)

Pollutant – Sulfur Dioxide (SO2) (State) When the boilers burn coal or co-fire coal and natural gas
Stack Test to be Completed: 10/7/2028
Test Method – 40 CFR 60, Appendix A, Method 6C
Authority for Requirement – 567 IAC 24.108(3)

Continuous Emissions Monitoring:

The permittee shall install, calibrate, maintain and operate a continuous emission monitoring system (CEMS) for measuring the opacity of the emissions discharged to the atmosphere by each of the two boilers and shall record the output of the systems. The systems shall be designed to meet Performance Specification 1 (PS1) from 40 CFR Part 60, Appendix B and the 40 CFR Part 60.13.
Authority for Requirement: DNR Construction Permit 81-A-150-S4

Pollutant – Opacity

Operational Specifications – 40 CFR 60, Appendix B, Performance Specification 1.
Date of Initial System Calibration and Quality Assurance – The system was installed and serviced on July 27, 2010. The field portion of the test was completed August 25, 2011. The performance specification test including the 7 day drift test was completed on boiler 1 December 9 – 16, 2011. The 7 day drift test was completed on boiler 2 November 12 – 18, 2011.

Ongoing System Calibration/Quality Assurance – Daily calibrations per 40 CFR 60 Appendix F, Section 4

Reporting & Recordkeeping – Quarterly per 567 IAC 25.1(6). Such information must include but is not limited to all emissions data (raw data, adjusted data, and any or all adjusted factors used to convert emissions from units of measurements to units of the applicable standard) performance evaluations, calibrations and zero checks, and records of all malfunctions of monitoring equipment or source and repair procedures performed. Authority for Requirement – 567 IAC 25.1

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

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

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

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☒ **No** ☐
Required for Fabric Filters for PM. See below
Authority for Requirement: 567 IAC 24.108(3)

CAM Plan for EP 500-139-1 Bag house

G. Background

A. Emissions Unit
Description: Two Coal Fired Boilers
Identification: EU 500-139-1 and EU 500-139-2
Facility: Iowa Army Ammunition Plant

B. Applicable Regulation, Emission Limit, and Monitoring Requirements
Regulation No.: Permit 81-A-150-S4
Particulate emission limit: 0.07 lb/MMBtu PM
Opacity emission limit: 40%
Current Monitoring requirements: Stack testing within 2 years of Title V Issuance
Check Pressure Drop Gages Daily
One Hour Opacity Average

C. Control Technology
Settling Chamber; Dustex Fabric Filter (on each boiler)

II. Monitoring Approach
General Monitoring Guidelines

- CAM involves the observation of control equipment compliance indicators: pressure drop across the baghouse and one hour opacity average from the opacity monitor. This plan defines acceptable ranges for these indicators. CAM also includes control equipment inspections when excursions of the indicator have taken place and possible corrective action and maintenance if necessary.

- Monitoring is not required during periods of time greater than one day in which the source does not operate.

Excursion from Compliance Indicators

- An excursion occurs when an observed compliance indicator is outside of its defined acceptable indicator range. An excursion does not necessarily indicate a violation of applicable permit terms, conditions, and/or requirements. However, an excursion is a deviation that must be reported in the Semi-Annual Monitoring Report and Annual Compliance Certification Report.
- Corrective actions will begin as soon as possible, but no later than eight hours from the observation of the excursion.

	Indicator #1	Indicator #2
I. Indicator	Differential pressure across baghouse	Continuous Opacity Monitoring System
Measurement Approach	Differential pressure measured daily, in inches, across the baghouse.	One hour Opacity Average
II. Indicator Range	An excursion is defined as a differential pressure reading across the baghouse module outside the acceptable range. The acceptable range is 0.2 to 7 inches water. Excursions trigger an inspection, corrective action and a recordkeeping requirement.	An excursion is defined as any exceedance of a pre-determined excursion point. Excursions are triggered when the one-hour opacity CAM indicator exceeds 4.60 %. Excursions trigger an inspection, corrective action and a recordkeeping requirement.
III. Performance Criteria		
A. Data Representativeness	An observation of the differential pressure below 0.2 inches of water or greater than 7 inches of water across the baghouse or the one-hour opacity average greater than 4.60 % could reveal a decrease in the performance of the control equipment and potentially result in an increase of particulate emissions if corrective actions are not initiated.	
B. Record Keeping and Reporting (Verification of Operational Status)	*Daily pressure drop readings *Record any excursions and corrective actions resulting from readings outside the	*Whenever the opacity is greater than 4.60 %, document the duration and cause if known, corrective actions

	Indicator #1	Indicator #2
	indicator range, inspections and maintenance.	taken and any inspections and maintenance conducted.
C. QA/QC Practices and Criteria	Pressure gauge will be calibrated, operated, and maintained according to the manufacturer's specifications.	The COM shall follow 40 CFR Part 60 requirements.
D. Monitoring Frequency	The differential pressure will be inspected a minimum of once per day when the baghouse is operating.	Record all excursion events.
E. Data Collection Procedures	Daily results will be recorded and maintained for 5 years.	Records will be recorded and maintained for 5 years.

IV. Justification

A. Background
This facility manufactures large and small caliber munitions. The pollutant specific emission unit is the bag filter that controls particulate emissions from two coal fired boilers. The controlled exhaust flow rate is approximately 78,690 standard cubic feet per minute.

C. Rationale for Selection of Performance Indicator
The daily pressure drop readings were selected as the performance indicator because it is indicative of operation of the bag house in a manner necessary to comply with the particulate emission standard. A pressure drop greater than 7 inches or less than 0.2 inches is indicative of a potential increase in particulate emissions due to a decrease in the performance of this bag house. Therefore, the detection of excessive pressure drop is used as a performance indicator.

The opacity reading from the Continuous Opacity Monitor or COM system was selected as a secondary indicator.

D. Rationale for Selection of Indicator Level
The selected indicator range is a pressure drop of greater than 0.2 inches of water but not greater than a pressure drop beyond 7 inches of water. If a pressure drop outside of the range noted above is observed, corrective action will be taken within 8 hours.

The changes in pressure drop noted above were selected as the indicator range because a pressure drop greater than 7 inches or less than 0.2 inches is indicative of a potential increase in particulate emissions due to a decrease in the performance of this bag house. If the bag house is operating properly, there will not be a pressure drop greater than 7 inches or less than 0.2 inches of water except during start up, shut down, and upset conditions.

4.60 % opacity was selected as the upper opacity monitoring level not to be exceeded without making an inspection and taking corrective action. This value was based on performing a regression analysis using the opacity monitor data recorded during the particulate stack test performed in February 2011 and the stack test results.

The selected QIP threshold for the bag house is 6 excursions in a 6-month reporting period. If the QIP threshold is exceeded in a semiannual reporting period, a QIP will be developed and implemented.

Authority for Requirements: 40 CFR Part 64
567 IAC 24.108(3)

Emission Point ID Number: 500-139-4

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
500-139-4	Diesel Generator, CAT No. 3512	Diesel	1,000 kW 72 gal /hr	95-A-521-S2

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit: 40 % (1)
Authority for Requirement: DNR Construction Permit 95-A-521-S2
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limit: 2.82 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 95-A-521-S2
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit: 2.5 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(3)"b"(2)

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit: 36.02 lb/hr
Authority for Requirement: DNR Construction Permit 95-A-521-S2

Operational Limits & Reporting/Record keeping Requirements

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

A. This engine is limited to operating a maximum of 500 hours in any rolling 12-month period.
B. The sulfur content of the diesel fuel combusted in this emission unit shall not exceed 0.5 percent by weight.
    1. The owner or operator shall maintain records that demonstrate the sulfur content as percent by weight of the diesel fuel used.
C. In accordance with 40 CFR §63.6640(f):

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

D. The owner or operator shall maintain the following monthly records:
1. the number of hours that the engine operated for maintenance checks and readiness testing;
2. the number of hours that the engine operated for allowed non-emergency operations;
3. the total number of hours that the engine operated; and
4. the rolling 12-month total amount of the number of hours that the engine operated.

E. The owner or operator shall maintain the following annual records:
1. the number of hours that the engine operated for maintenance checks and readiness testing;
2. the number of hours that the engine operated for allowed non-emergency operations;
3. the total number of hours that the engine operated for maintenance checks, readiness testing, and allowed non-emergency operations.

Authority for Requirement: DNR Construction Permit 95-A-521-S2

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)(1)(i) this emergency engine, located a major source, is an existing stationary RICE as it was constructed prior to December 19, 2002.

According to 63.6590(b)(3)(iii), an existing emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions is not subject to the requirements of 40 CFR 63 Subpart ZZZZ and Subpart A, including initial notification requirements.

Authority for Requirement: DNR Construction Permit 95-A-521-S2
40 CFR Part 63 Subpart ZZZZ
567 IAC 23.1(4)"cz"

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

Stack Height (feet): 38
Stack Diameter (inches): 12
Stack Exhaust Flow Rate (scfm): 3,350
Stack Temperature (°F): 886
Discharge Style: Vertical unobstructed
Authority for Requirement: DNR Construction Permit 95-A-521-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 24.108(3)

Emission Point ID Number: 500-139-6

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
500-139-6	Emergency Diesel Generator	Diesel	1,000 kW 1,350 bhp 72.5 gal/hr	07-A-1083

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: 40% (1)
Authority for Requirement: DNR Construction Permit 07-A-1083
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)
Emission Limit: 0.20 g/kW-hr
Authority for Requirement: DNR Construction Permit 07-A-1083
40 CFR 60, Subpart IIII
567 IAC 23.1(2)"yyy"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit: 2.5 lbs/MMBtu
Authority for Requirement: DNR Construction Permit 07-A-1083
567 IAC 23.3(3)"b"

Pollutant: Carbon Monoxide (CO)
Emission Limit: 3.5 g/kW-hr
Authority for Requirement: DNR Construction Permit 07-A-1083
40 CFR 60, Subpart IIII
567 IAC 23.1(2)"yyy"

Pollutant: Nitrogen Oxides (NO_x) + Non-Methane Hydrocarbons (NMHC)
Emission Limit: 6.4 g/kW-hr
Authority for Requirement: DNR Construction Permit 07-A-1083
40 CFR 60, Subpart IIII
567 IAC 23.1(2)"yyy"

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits

A. This project consists of the following: the modification of two existing coal-fired boilers (EU 500-139-1 and 500-139-2), the installation of a new diesel IC engine for emergency power (EU 500-139-6), two new reagent bins for calcium hydroxide ($Ca(OH)_2$) and bromated powder activated carbon (B-PAC), and a new fly ash receiver on the fly ash silo.

B. In accordance with 567 IAC 33.3(2)"c", this project is not considered a major modification because it will not result in a significant emissions increase. In accordance with 567 IAC 33.3(2)"e", a significant emissions increase of a regulated NSR pollutant is projected to occur if the difference between the "projected actual emissions' and the "baseline actual emissions" for this project equals or exceeds the significant amount for that pollutant. The significant amounts for the NSR pollutants are listed in 33.3(1).

C. The baseline actual emissions for the project are the sum of the baseline actual emissions for the coal fired boilers, the IC engine, the reagent bins and the fly ash receiver/silo and are calculated in accordance with the definition of "baseline actual emissions" in 33.3(1). The **baseline actual emissions** for these units are:

Particulate matter: 19 tons
PM_{10}: 19 tons
Sulfur dioxide: 1378 tons
Oxides of nitrogen: 140 tons
Carbon monoxide: 64 tons
VOC: 0.64 ton
Lead: 0.01 ton

D. The projected actual emissions for the project are the sum of the projected actual emissions for the coal fired boilers, the IC engine, the reagent bins and the fly ash receiver/silo and are calculated in accordance with the definition of "projected actual emissions" in 33.3(1). The **projected actual emissions** for these units are:

Particulate matter: 19.21 tons
PM_{10}: 19.21 tons
Sulfur dioxide: 1379.37 tons
Oxides of nitrogen: 143.46 tons
Carbon monoxide: 65.93 tons
VOC: 0.71 ton
Lead: 0.01 ton

E. This emission unit shall not operate more than 500 hours in any 12 month period.

F. Only number 1 or number 2 fuel oil shall be burned in this emissions unit. Prior to burning any other fuels, the permittee shall submit an application to the Iowa DNR - Air Quality Bureau to modify this permit.

G. The sulfur content of the oil burned in this engine shall not exceed 0.5 percent by weight. This limit applies at all times, including periods of startup, shutdown and malfunctions.

H. Per §60.4205, this units must comply with the emission standards for new nonroad Compression Ignition engines in §60.4202 for all pollutants, for the same model year and

maximum engine power. The engine's manufacturer must certify that the unit will meet the emission standards for new nonroad engines for the same model year and maximum engine power from 40 CFR 89.112 and 40 CFR 89.113 for all pollutants.

I. Per §60.4206, the permittee must operate and maintain the unit according to the manufacturer's written instructions or procedures developed by the permittee that are approved by the engine manufacturer over the entire life of the engine.

J. The permittee must use diesel fuel in this unit that complies with the requirements of §60.4207.

K. The permittee shall operate and maintain the unit according to the manufacturer's written instructions or procedures developed by the permittee that are approved by the engine manufacturer. The permittee may change only those settings that are permitted by the manufacturer. The unit must meet the requirements of 40 CFR parts 89, 94 and/or 1068, as applicable.

L. Per §60.4211(c), the permittee must purchase an engine that is certified to the emissions standards in §60.4205(b) for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.

M. Per §60.4211(e), the unit may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by the Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year.

Reporting and Record keeping

A. In accordance with 567 IAC 33.3(18), the permittee shall maintain the following records in writing on the emissions units that are part of project 07-439 (i.e. two coal fired boilers (EU 500-139-1, 500-139-2), diesel engine (EU 500-139-6), two reagent bins, and the fly ash receiver/silo):

   1. monitor the emissions of any regulated NSR pollutant that could increase as a result of the project; and
   2. calculate the annual emissions for the emissions unit in the project, in tons per year on a calendar year basis, for a period of five years after following the resumption of regular operations and maintain a record of regular operations after the change. Resumption of regular operations shall begin when the modifications to both coal fired boilers are completed.

      The written record containing the information required above shall be retained by the permittee for a period of ten years after the project is completed. This information shall be made available for review upon request for inspection by the Iowa DNR - Air Quality Bureau or the general public pursuant to the requirements for Title V operating permits contained in 567 IAC 22.107(6).

B. The permittee shall submit a report to the Iowa DNR - Air Quality Bureau if annual emissions, in tons per year, from the equipment that is part of this project exceed the "baseline actual emissions" by an amount that is "significant" (as defined in subrule 33.3(1)) for a regulated NSR pollutant and if such emissions differ from the estimate of the "projected actual emissions". Such report shall be submitted to the Iowa DNR - Air Quality Bureau within 60 days after the end of such year. The report shall contain the following information:

   1. The name, address and telephone number of the major stationary source;

2. The annual emissions from the emissions units that are part of project 07-439;
3. Any other information that the permittee wishes to include in the report (e.g. an explanation as to why the emissions differ from the preconstruction projection).

C. The permittee shall maintain the following monthly records:
1. the total number of hours that the emissions unit operated;
2. the number of hours that the emissions unit operated for maintenance checks and readiness testing;
3. the rolling, 12-month total of the number of hours that the emissions unit operated; and
4. the number of hours that the engine was operated for maintenance checks and readiness testing in any rolling 12-month period.

D. In accordance with §60.4209, the unit shall be equipped with a non-resettable hour meter.

E. The permittee shall keep on site a record of the fuel oil specifications as provided by the supplier and applicable to the oil used. The record shall include information on the sulfur content of the oil burned.

Authority for Requirement: DNR Construction Permit 07-A-1083

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)(i) this emergency engine, located at a major source, is a new stationary RICE as it was constructed on or after December 19, 2002.

According to 40 CFR 63.6590(b)(1)(i), a new emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions is not subject to the requirements of 40 CFR 63 Subpart ZZZZ and Subpart A except for initial notification requirements of 40 CFR 63.6645(f).

Authority for Requirement: DNR Construction Permit 07-A-1083
40 CFR Part 63, Subpart ZZZZ
567 IAC 23.1(4)"cz"

NSPS Applicability

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	560 < kW ≤ 2237 (751 < HP ≤ 3000)	2007+	6.4 (4.8)	3.5 (2.6)	0.20 (0.15)	(1)	(2)

(1) Exhaust opacity must not exceed: 20 percent during the acceleration mode; 15 percent during the lugging mode; and 50 percent during the peaks in either the acceleration or lugging modes.
(2) 40 CFR 1039 Appendix I

Fuel Requirements:
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:

A. 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)).
   1. Operating and maintaining the engine and control device according to the manufacturer's emission-related written instructions;
   2. Changing only those emission-related settings that are permitted by the manufacturer; and
   3. Meeting the requirements of 40 CFR 1068, as they apply to you.

B. 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).

C. 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
500 < HP	Within 1 year of engine startup, or non-permitted action [(1)]	Every 8,760 hours or 3 years, whichever comes first

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

Operating and Recordkeeping Requirements

A. 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
130 ≤ KW (175 ≤ HP)	2011

B. There is no time limit on use for emergency situations. 40 CFR 60.4211(f)(1).

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

Authority for Requirement: 40 CFR Part 60, Subpart IIII
567 IAC 23.1(2)"yyy"

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

Stack Height (feet): 38
Stack Diameter (inches): 12
Stack Exhaust Flow Rate (scfm): 3,361
Stack Temperature (°F): 834
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 07-A-1083

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 500-107-8

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
500-107-8	Emergency Generator – [Tier 2]	Diesel	755 bhp 35.5 gal/hr	26-A-091-S1

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 40% (1)
Authority for Requirement: DNR Construction Permit 26-A-091-S1
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.31 lb/hr
Authority for Requirement: DNR Construction Permit 26-A-091-S1

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 26-A-091-S1
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 2.5 lb/MMbtu
Authority for Requirement: DNR Construction Permit 26-A-091-S1
567 IAC 23.3(3)"b"

See NSPS Section below for additional emission limits.

Operational Limits & Reporting/Record keeping Requirements

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

A. The engine is limited to operating a maximum of 500 hours in any rolling 12-month period.
B. The engine:
   1. Is limited to operate as an emergency stationary internal combustion engine as defined in

40 CFR §60.4219 and in accordance with 40 CFR §60.4211(f). There is no time limit on the use of the engine in emergency situations provided that the annual hourly limit established in Condition A. is not exceeded. In accordance with 40 CFR §60.4211(f)(2), the engine is limited to operate a maximum of 100 hours per calendar year for maintenance checks and readiness testing.

2. Is also allowed to operate up to 50 hours per calendar year in non-emergency situations in accordance with 40 CFR §60.4211(f)(3), but the 50 hours are counted toward the 100 hours provided for maintenance and testing. The 50 hours per calendar year for non-emergency operation cannot be used for peak shaving or non-emergency demand response or to generate income for the facility to supply power to the electric grid or otherwise supply non-emergency power as part of a financial arrangement with another entity.

C. In accordance with 40 CFR §60.4209(a), the engine shall be equipped with a non-resettable hour meter.

D. In accordance with 40 CFR §60.4214(b), the owner or operator must keep records of the engine in emergency and non-emergency service and must record the time of the operation of the engine and the reason the engine was operated during that time.

E. The owner or operator shall maintain the following monthly records:
   1. the number of hours that the engine operated for maintenance checks and readiness testing;
   2. the number of hours that the engine operated for allowed non-emergency service;
   3. the number of hours that the engine operated for emergency service;
   4. the total number of hours that the engine operated; and
   5. the rolling 12-month total amount of the number of hours that the engine operated.

F. The owner or operator shall maintain the following annual records:
   1. the number of hours that the engine operated for maintenance checks and readiness testing;
   2. the number of hours that the engine operated for allowed non-emergency operations; and
   3. the total number of hours that the engine operated for maintenance checks, readiness testing, and allowed non-emergency operations.

G. In accordance with §60.4207(b), the diesel fuel burned in this engine shall meet the following specifications from 40 CFR 1090.305 for ultra-low sulfur diesel (ULSD):

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

   1. The owner or operator shall comply with the requirements listed above by one of the following methods:
      i. have the fuel supplier certify that the fuel delivered meets the of non-road diesel fuel ULSD as defined in 40 CFR 1090.80; or
      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.

H. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in 40 CFR §60.4211(g).
I. In accordance with 40 CFR §60.4211(a), the engine shall be operated and maintained in accordance with the manufacturer's emission-related written instructions. Except as permitted in 40 CFR §60.4211(g), the owner or operator may only change emission-related engine settings that are permitted by the manufacturer.
J. The owner or operator shall complete all applicable monitoring, compliance, notification, reporting, and recordkeeping requirements as required by NSPS Subpart IIII not specifically listed in this permit:
    1. The owner or operator of the engine shall follow the monitoring requirements of 40 CFR §60.4209.
    2. The owner or operator of the engine shall follow the compliance requirements of 40 CFR §60.4211.
    3. The owner or operator of the engine shall follow the notification, reporting, and recordkeeping requirements of 40 CFR §60.4214(b).

Authority for Requirement: DNR Construction Permit 26-A-091-S1
40 CFR 60 Subpart IIII
567 IAC 23.1(2)"yyy"

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 Applicability

A. In accordance with 40 CFR §60.4211(c), the engine must be certified by its manufacturer to comply with the emissions standards for emergency engines from 40 CFR §60.4205(b) and 40 CFR §60.4202(a)(2) or 40 CFR §60.4202(b)(2). The emission standards that the engine must be certified by the manufacturer to meet are:

Pollutant	**Emission Standard**[(1)]	**Basis/Reference**
Particulate Matter (PM)	0.20 grams/kW-hr	40 CFR Part 1039, Appendix I[(2)]
NMHC[(3)] + NO_x	6.4 grams/kW-hr	40 CFR Part 1039, Appendix I[(2)]
Carbon Monoxide (CO)	3.5 grams/kW-hr	40 CFR Part 1039, Appendix I[(2)]
Opacity – acceleration mode	20%	40 CFR §1039.105(b)(1)
Opacity – lugging mode	15%	40 CFR §1039.105(b)(2)
Opacity – peaks in acceleration or lugging modes	50%	40 CFR §1039.105(b)(3)

[(1)]grams/kW-hr = grams per kilowatt hour.

[2]Table 2 of Appendix I is for Tier 2 Emission Standards and Table 3 of Appendix I is for Tier 3 Emissions Standards.
[3]Non-methane hydrocarbon.

B. In accordance with 40 CFR §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 40 CFR §60.4205(b) and 40 CFR §60.4202(a)(2) or 40 CFR §60.4202(b)(2) 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 40 CFR §60.4211(g).

Authority for Requirement: DNR Construction Permit 26-A-091-S1
40 CFR 60 Subpart IIII
567 IAC 23.1(2)"yyy"

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

Stack Height, (ft., from the ground): 8
Stack Opening, (inches, dia.): 8
Exhaust Flow Rate (scfm): 3,433
Exhaust Temperature (°F): 975
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 26-A-091-S1

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 500-164-2-1

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
500-164-2-1	Administrative Lift Station Generator	Diesel	158 bhp 8.25 gal/hr	NA

Applicable Requirements

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

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

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

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit: 2.5 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(3)"b"(2)

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

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)(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"
567 IAC 24.108(3)

NSPS Applicabiltiy

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	75 ≤ kW < 130 (100 ≤ HP < 175)	2007+	4.0 (3.0)	5.0 (3.7)	0.30 (0.22)	(1)	(2)

(1) Exhaust opacity must not exceed: 20 percent during the acceleration mode; 15 percent during the lugging mode; and 50 percent during the peaks in either the acceleration or lugging modes.
(2) 40 CFR 1039 Appendix I

Fuel Requirements:
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:

A. 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)).
   1. Operating and maintaining the engine and control device according to the manufacturer's emission-related written instructions;
   2. Changing only those emission-related settings that are permitted by the manufacturer; and
   3. Meeting the requirements of 40 CFR 1068, as they apply to you.

B. 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).

C. If you do not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, you must keep a maintenance plan and records of conducted maintenance to demonstrate compliance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct the following performance testing in accordance with 40 CFR 60.4212 to demonstrate compliance with applicable emission standards. You are required to notify the DNR 30 days prior to the test date and are required to submit a stack test report to the DNR within 60 days after the completion of the testing. See 40 CFR 60.4211(g) for additional information.

Maximum Engine Power	Initial Test	Subsequent Test
100 ≤ HP ≤ 500	Within 1 year of engine startup, or non-permitted action (1)	Not required

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

Operating and Recordkeeping Requirements

A. 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
56 ≤ KW < 130 (75 ≤ HP < 175)	2012

B. There is no time limit on use for emergency situations. 40 CFR 60.4211(f)(1).

C. 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.

D. 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.

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

Authority for Requirement: 40 CFR Part 60 Subpart IIII
567 IAC 23.1(2)"yyy"

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 500-214-2-1

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
500-214-2-1	Gate 3 Emergency Generator	Natural Gas	133 bhp 0.012 MMcf/hr	NA

Applicable Requirements

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

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

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

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit: 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

This unit is limited to a maximum of 500 hour per 12-month rolling period.

NESHAP Applicability
The emergency engine is subject to 40 CFR Part 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 spark 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 JJJJ for spark ignition engines. No further requirements apply for this engine under subpart ZZZZ.
Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ
567 IAC 23.1(4)"cz"
567 IAC 24.108(3)

NSPS Applicability

Emission Standards:

(40 CFR 60.4233(e) and Table 1 to Subpart JJJJ)

Maximum Engine Power	Manufacture Date	Emission Standards [1]						
		g/HP-hr				ppmvd at 15% O_2		
		NOx	HC + NOx	CO [2]	VOC [3]	NOx	CO	VOC
HP ≥ 130	1/1/2009+	2.0	N/A	4.0	1.0	160	540	86

[1] Owners and operators of stationary non-certified SI engines may choose to comply with the emission standards in units of either g/HP-hr or ppmvd at 15 percent O_2.

[2] See rule for alternative CO certification standards for engines ≥ 100 hp and manufactured prior to 1/1/2011.

[3] Formaldehyde emissions are not included.

Compliance Demonstrations:

A. You must demonstrate compliance with the emission standards according to one of following methods (40 CFR 60.4243(b)):
   1. Purchasing a certified engine that complies with the emission standards, or
   2. Purchasing a non-certified engine and demonstrating compliance with the emission standards. You must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct performance tests to demonstrate compliance in accordance with 40 CFR 60.4244. Owners and operators are required to notify the DNR 30 days prior to the test date and are required to submit a stack test report to the DNR within 60 days after the completion of the testing. See 40 CFR 4243(b) for additional information.

Maximum Engine Power	Initial Test	Subsequent Test
25 < HP ≤ 500	Required	Not required

B. Owners and operators of SI engines that are required to be certified and who operate and maintain the engine according to the manufacturer's written instructions must keep records of required maintenance. 40 CFR 60.4243(b)(1), 4243(a) and 4245(a)(2).
C. Owners and operators of natural gas fired engines may operate their engines using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations, but must keep records of such use. If propane is used for more than 100 hours per year in an engine that is not certified to the emission standards when using propane, a performance test must be conducted to demonstrate compliance with the emission standards. 40 CFR 60.4243(e).
D. If you are an owner or operator of engine ≤ 500 HP and you purchase a non-certified engine or you do not operate and maintain your certified engine and control device according to the manufacturer's written emission-related instructions, you are required to perform initial performance testing, but you are not required to conduct subsequent performance testing unless the engine is rebuilt or undergoes major repair or maintenance. 40 CFR 60.4243(f).
E. Owners and operators of certified engines must keep a record from the manufacturer that the engines are certified to meet applicable emission standards. 40 CFR 60.4245(a)(3).
F. Owners and operators of non-certified engines or certified engines operating in a non-certified manner must keep documentation that these engines meet the applicable emission standards. 40 CFR 60.4245(a)(4).

Operating and Recordkeeping Requirements (40 CFR 4243(d))

A. Owners and operators of the following emergency SI engines that do not meet the applicable standards for non-emergency engines must install a non-resettable hour meter. 40 CFR 60.4237.

Maximum Engine Power	Engine Was Built On Or After
130 ≤ HP < 500	1/1/2011

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

C. The engine may be operated for up to 50 hours per year for non-emergency purposes. This operating time cannot be used to generate income for the facility (e.g. supplying power to the grid) and should be included in the total of 100 hours allowed for maintenance checks and readiness testing.

D. Owners and operators of an emergency engine must keep records of all operation of the engine. The owner must record the date and time of operation of the engine and the reason the engine was in operation.

E. Owners and operators of the following emergency SI that does not meet the applicable standards for a non-emergency engine must keep the following records. 40 CFR 60.4245(b).

Maximum Engine Power	Manufactured On Or After	Recordkeeping Requirement
130 ≤ HP < 500	7/1/2011	Hours of operation recorded through a non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.

F. If you own or operate an emergency stationary SI ICE with a maximum engine power more than 100 HP that operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 40 CFR 60.4243(d)(2)(ii) and (iii) or that operates for the purposes specified in 40 CFR 60.4243(d)(3)(i), you must submit an annual report according to the requirements in 40 CFR60.4245(e)(1) through (3). 40 CFR 60.4245.

Authority for Requirement: 40 CFR Part 60 Subpart JJJJ
567 IAC 23.1(2)"zzz"

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 500-215-2

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
500-215-2	Emergency Generator	Diesel	385 bhp 17.6 gal/hr	NA

Applicable Requirements

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

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

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

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit: 2.5 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(3)"b"(2)

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

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)(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"

NSPS Applicability

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	225 ≤ kW < 450 (302 ≤ HP < 604)	2007+	4.0 (3.0)	3.5 (2.6)	0.20 (0.15)	(1)	(2)

(1) Exhaust opacity must not exceed: 20 percent during the acceleration mode; 15 percent during the lugging mode; and 50 percent during the peaks in either the acceleration or lugging modes.
(2) 40 CFR 1039 Appendix I

Fuel Requirements:

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:

A. 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)).
   1. Operating and maintaining the engine and control device according to the manufacturer's emission-related written instructions;
   2. Changing only those emission-related settings that are permitted by the manufacturer; and
   3. Meeting the requirements of 40 CFR 1068, as they apply to you.

B. 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).

C. If you do not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, you must keep a maintenance plan and records of conducted maintenance to demonstrate compliance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct the following performance testing in accordance with 40 CFR 60.4212 to demonstrate compliance with applicable emission standards. You are required to notify the DNR 30 days prior to the test date and are required to submit a stack test report to the DNR within 60 days after the completion of the testing. See 40 CFR 60.4211(g) for additional information.

Maximum Engine Power	**Initial Test**	**Subsequent Test**
100 ≤ HP ≤ 500	Within 1 year of engine startup, or non-permitted action (1)	Not required

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

Operating and Recordkeeping Requirements

A. 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
130 ≤ KW (175 ≤ HP)	2011

B. There is no time limit on use for emergency situations. 40 CFR 60.4211(f)(1).

C. 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.

D. 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.

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

Authority for Requirement: 40 CFR Part 60 Subpart IIII
567 IAC 23.1(2)"yyy"

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 500-162-1

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
500-162-1	Waste Treatment Pit (Water)	Waste Water	45,000 gal/hr	NA

Applicable Requirements

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

None applicable at this time.

Operational Limits & Reporting/Record keeping Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

There are no applicable requirements at this time.

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Numbers: See Table FUG

Associated Equipment

Table FUG

Emission Point	Emission Unit	Emission Unit Description	Raw Material	Rated Capacity
500-137-2-1	500-137-2-1	Inert Solid Waste Landfill	Solid Waste	6417.60 tpy
IAAAP-2	IAAAP-3	Coal Pile	Coal	116,683 tpy
IAAAP-3	IAAAP-4	Unpaved Roads	Fugitive Dust	71.6 VMT/hr
IAAAP-6	IAAAP-8	Fly Ash Landfill	Fugitive Fly Ash	1,966.8 tpy
IAAAP-7	IAAAP-9	Open Burning of Propellants/Explosives(1)	Unstable Propellants/Explosives	4,092 lb/hr

(1) The permittee is prohibited from conducting open burning, except as may be allowed by 567 IAC 23.2.

Applicable Requirements

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

The emissions from the emission points described in Table FUG shall not exceed the levels specified below.

Pollutant: Fugitive Dust
Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.
Authority for Requirement: 567 IAC 23.3(2)"c"

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

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

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

Authority for Requirement: 567 IAC 24.108(3)

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 24.

G1. Duty to Comply

1. The permittee must comply with all conditions of the Title V permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for a permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. *567 IAC 24.108(9)"a"*

2. Any compliance schedule shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based. *567 IAC 24.105(2)"h"(3)*

3. Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be enforceable by the administrator and are incorporated into this permit. *567 IAC 24.108(1)"b"*

4. Unless specified as either "state enforceable only" or "local program enforceable only", all terms and conditions in the permit, including provisions to limit a source's potential to emit, are enforceable by the administrator and citizens under the Act. *567 IAC 24.108(14)*

5. It shall not be a defense for a permittee, in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. *567 IAC 24.108(9)"b"*

6. For applicable requirements with which the permittee is in compliance, the permittee shall continue to comply with such requirements. For applicable requirements that will become effective during the permit term, the permittee shall meet such requirements on a timely basis. *567 IAC 24.108(15)"c"*

G2. Permit Expiration

1. Except as provided in rule 567—24.104(455B), permit expiration terminates a source’s right to operate unless a timely and complete application for renewal has been submitted in accordance with rule 567—24.105(455B). *567 IAC 24.116(2)*

2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall submit on forms or electronic format specified by the Department. Additional copies to local programs or EPA are not required for application materials submitted through the electronic format specified by the Department. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in 567 IAC 24.105(2). *567 IAC 24.105*

G3. Certification Requirement for Title V Related Documents

Any application, report, compliance certification or other document submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. All certifications shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. *567 IAC 24.107(4)*

G4. Annual Compliance Certification

By March 31 of each year, the permittee shall submit compliance certifications for the previous calendar year. The certifications shall include descriptions of means to monitor the compliance status of all emissions sources including emissions limitations, standards, and work practices in accordance with applicable requirements. The certification for a source shall include the

identification of each term or condition of the permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with all applicable department rules. For sources determined not to be in compliance at the time of compliance certification, a compliance schedule shall be submitted which provides for periodic progress reports, dates for achieving activities, milestones, and an explanation of why any dates were missed and preventive or corrective measures. The compliance certification shall be submitted to the administrator, director, and the appropriate DNR Field office. *567 IAC 24.108(15)"e"*

G5. Semi-Annual Monitoring Report

By March 31 and September 30 of each year, the permittee shall submit a report of any monitoring required under this permit for the 6 month periods of July 1 to December 31 and January 1 to June 30, respectively. All instances of deviations from permit requirements must be clearly identified in these reports, and the report must be signed by a responsible official, consistent with 567 IAC 24.107(4). The semi-annual monitoring report shall be submitted to the director and the appropriate DNR Field office. *567 IAC 24.108 (5)*

G6. Annual Fees

1. The permittee is required under subrule 567 IAC 30.4(2) to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. 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.

    a. 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.

    b. The emissions inventory shall be submitted annually by March 31 with forms specified by the department documenting actual emissions for the previous calendar year.

    c. The fee shall be submitted annually by July 1 with forms specified by the department.

    d. 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.

    e. 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.

    g. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 24.115(1)"d".

2. The permittee is required under subrule 567 IAC 30.4(3) to pay an annual base fee based on the fee schedule approved by the commission and posted on the department’s website. Beginning July 1, 2026, Title V operating base fees will be paid on July 1 of each year.

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

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

1. Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;

2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
4. Sample or monitor, at reasonable times, substances or parameters for the purpose of ensuring compliance with the permit or other applicable requirements. *567 IAC 24.108 (15)"b"*

G8. Duty to Provide Information

The permittee shall furnish to the director, within a reasonable time, any information that the director may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the director copies of records required to be kept by the permit, or for information claimed to be confidential, the permittee shall furnish such records directly to the administrator of EPA along with a claim of confidentiality. *567 IAC 24.108 (9)"e"*

G9. General Maintenance and Repair Duties

The owner or operator of any air emission source or control equipment shall:
1. Maintain and operate the equipment or control equipment at all times in a manner consistent with good practice for minimizing emissions.
2. Remedy any cause of excess emissions in an expeditious manner.
3. Minimize the amount and duration of any excess emission to the maximum extent possible during periods of such emissions. These measures may include but not be limited to the use of clean fuels, production cutbacks, or the use of alternate process units or, in the case of utilities, purchase of electrical power until repairs are completed.
4. Schedule, at a minimum, routine maintenance of equipment or control equipment during periods of process shutdowns to the maximum extent possible. *567 IAC 21.8(1)*

G10. Recordkeeping Requirements for Compliance Monitoring

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

c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 24.108(4), 567 IAC 24.108(12)*

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

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

1. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred at a source:

a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 24;

b. Compliance test methods specified in 567 Chapter 21; or

c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.

2. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:

a. Any monitoring or testing methods provided in these rules; or

b. Other testing, monitoring, or information gathering methods that produce information comparable to that produced by any method in subrule 21.5(1) or this subrule. *567 IAC 21.5(1)-567 IAC 21.5(2)*

G12. Prevention of Accidental Release: Risk Management Plan Notification and Compliance Certification

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Act, the permittee shall notify the department of this requirement. The plan shall be filed with all appropriate authorities by the deadline specified by EPA. A certification that this risk management plan is being properly implemented shall be included in the annual compliance certification of this permit. *567 IAC 24.108(6)*

G13. Hazardous Release

The permittee must report any situation involving the actual, imminent, or probable release of a hazardous substance into the atmosphere which, because of the quantity, strength and toxicity of the substance, creates an immediate or potential danger to the public health, safety or to the environment. A verbal report shall be made to the department at (515) 725-8694 and to the local police department or the office of the sheriff of the affected county as soon as possible but not later than six hours after the discovery or onset of the condition. This verbal report must be followed up with a written report as indicated in 567 IAC 131.2(2). *567 IAC Chapter 131-State Only*

G14. Excess Emissions and Excess Emissions Reporting Requirements

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a violation. If the owner or operator of a source maintains that the incident of excess emission was due to a malfunction, the owner or operator must show that the conditions which caused the incident of excess emission were not preventable by reasonable maintenance and control measures. Determination of any subsequent enforcement action will be made following review of this report. If excess emissions are occurring, either the control equipment causing the excess

emission shall be repaired in an expeditious manner or the process generating the emissions shall be shutdown within a reasonable period of time. An expeditious manner is the time necessary to determine the cause of the excess emissions and to correct it within a reasonable period of time. A reasonable period of time is eight hours plus the period of time required to shut down the process without damaging the process equipment or control equipment. A variance from this subrule may be available as provided for in Iowa Code section 455B.143. In the case of an electric utility, a reasonable period of time is eight hours plus the period of time until comparable generating capacity is available to meet consumer demand with the affected unit out of service, unless, the director shall, upon investigation, reasonably determine that continued operation constitutes an unjustifiable environmental hazard and issue an order that such operation is not in the public interest and require a process shutdown to commence immediately.

2. Excess Emissions Reporting

a. Initial Reporting of Excess Emissions. An incident of excess emission (other than an incident of excess emission during a period of startup, shutdown, or cleaning) shall be reported to the appropriate field office of the department within eight hours of, or at the start of the first working day following the onset of the incident. The reporting exemption for an incident of excess emission during startup, shutdown or cleaning does not relieve the owner or operator of a source with continuous monitoring equipment of the obligation of submitting reports required in 567-subrule 21.10(6). An initial report of excess emission is not required for a source with operational continuous monitoring equipment (as specified in 567-subrule 21.10(1)) if the incident of excess emission continues for less than 30 minutes and does not exceed the applicable emission standard by more than 10 percent or the applicable visible emission standard by more than 10 percent opacity. The initial report may be made by electronic mail (E-mail), in person, or by telephone and shall include as a minimum the following:

i. The identity of the equipment or source operation from which the excess emission originated and the associated stack or emission point.

ii. The estimated quantity of the excess emission.

iii. The time and expected duration of the excess emission.

iv. The cause of the excess emission.

v. The steps being taken to remedy the excess emission.

vi. The steps being taken to limit the excess emission in the interim period.

b. Written Reporting of Excess Emissions. A written report of an incident of excess emission shall be submitted as a follow-up to all required initial reports to the department within seven days of the onset of the upset condition, and shall include as a minimum the following:

i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.

ii. The estimated quantity of the excess emission.

iii. The time and duration of the excess emission.

iv. The cause of the excess emission.

v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.

vi. The steps that were taken to limit the excess emission.

vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 21.7(1)-567 IAC 21.7(4)*

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 24.108(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 24.108(5)"b"*

G16. Notification Requirements for Sources That Become Subject to NSPS and NESHAP Regulations

During the term of this permit, the permittee must notify the department of any source that becomes subject to a standard or other requirement under 567-subrule 23.1(2) (standards of performance of new stationary sources) or section 111 of the Act; or 567-subrule 23.1(3) (emissions standards for hazardous air pollutants), 567-subrule 23.1(4) (emission standards for hazardous air pollutants for source categories) or section 112 of the Act. This notification shall be submitted in writing to the department pursuant to the notification requirements in 40 CFR Section 60.7, 40 CFR Section 61.07, and/or 40 CFR Section 63.9. *567 IAC 23.1(2), 567 IAC 23.1(3), 567 IAC 23.1(4)*

G17. Requirements for Making Changes to Emission Sources That Do Not Require Title V Permit Modification

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:

a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under

section 112 of the act, or major modifications as defined in 567 IAC Chapter 24.
b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
d. The changes are not subject to any requirement under Title IV of the Act (revisions affecting Title IV permitting are addressed in rules 567—24.140(455B) through 567 - 24.144(455B));.
e. The changes comply with all applicable requirements.
f. For each such change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:

i. A brief description of the change within the permitted facility,
ii. The date on which the change will occur,
iii. Any change in emission as a result of that change,
iv. The pollutants emitted subject to the emissions trade
v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
vii. Any permit term or condition no longer applicable as a result of the change. *567 IAC 24.110(1)*

2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 24.110(2)*
3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 24.110(1). *567 IAC 24.110(3)*
4. The permit shield provided in subrule 24.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 24.110(4)*
5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 24.108(11)*

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

a. An administrative permit amendment is a permit revision that does any of the following:

i. Correct typographical errors

ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;

iii. Require more frequent monitoring or reporting by the permittee; or

iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.

b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.

c. Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.

2. Minor Title V Permit Modification.

a. Minor Title V permit modification procedures may be used only for those permit modifications that satisfy all of the following:

i. Do not violate any applicable requirement;

ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit;

iii. Do not require or change a case by case determination of an emission limitation or other standard, or an increment analysis;

iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act;

v. Are not modifications under any provision of Title I of the Act; and

vi. Are not required to be processed as significant modification under rule 567 - 24.113(455B).

b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:

i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;

ii. The permittee's suggested draft permit;

iii. Certification by a responsible official, pursuant to 567 IAC 24.107(4), that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used; and

iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 24.107(7).

c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 24.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against the facility.

3. Significant Title V Permit Modification.

Significant Title V modification procedures shall be used for applications requesting Title V permit modifications that do not qualify as minor Title V modifications or as administrative amendments. These include but are not limited to all significant changes in monitoring permit terms, every relaxation of reporting or recordkeeping permit terms, and any change in the method of measuring compliance with existing requirements. Significant Title V modifications shall meet all requirements of 567 IAC Chapter 24, including those for applications, public participation, review by affected states, and review by the administrator, as those requirements that apply to Title V issuance and renewal.

The permittee shall submit an application for a significant permit modification not later than three months after commencing operation of the changed source unless the existing Title V permit would prohibit such construction or change in operation, in which event the operation of the changed source may not commence until the department revises the permit. *567 IAC 24.111-567 IAC 24.113*

G19. Duty to Obtain Construction Permits

Unless exempted in 567 IAC 22.1(2) or to meet the parameters established in 567 IAC 22.1(1)"c", the permittee shall not construct, install, reconstruct or alter any equipment, control equipment or anaerobic lagoon without first obtaining a construction permit, or conditional permit, or permit pursuant to rule 567 IAC 22.8, or permits required pursuant to rules 567 IAC 22.4, 567 IAC 22.5, 567 IAC 31.3, and 567 IAC 33.3 as required in 567 IAC 22.1(1). A permit shall be obtained prior to the initiation of construction, installation or alteration of any portion of the stationary source or anaerobic lagoon. *567 IAC 22.1(1)*

G20. Asbestos

The permittee shall comply with 567 IAC 23.1(3)"a", and 567 IAC 23.2(3)"g" when activities involve asbestos mills, surfacing of roadways, manufacturing operations, fabricating, insulating, waste disposal, spraying applications, demolition and renovation operations (*567 IAC 23.1(3)"a");* training fires and controlled burning of a demolished building *(567 IAC 23.2).*

G21. Open Burning

The permittee is prohibited from conducting open burning, except as provided in 567 IAC 23.2. *567 IAC 23.2 <u>except</u> 23.2(3)"j"; 567 IAC 23.2(3)"j" - State Only*

G22. Acid Rain (Title IV) Emissions Allowances

The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated there under. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners and operators of the unit or the designated representative of the owners and operators is prohibited. Exceedences of applicable emission rates are prohibited. "Held" in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the

owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. *567 IAC 24.108(7)*

G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements

1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:

    a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.

    b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.

    c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.

    d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.

2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:

    a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.

    b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.

    c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.

    d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)

    e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.

    f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.

3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.

4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,

5. The permittee shall be allowed to switch from any ozone-depleting or greenhouse gas generating substances to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

G24. Permit Reopenings

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 24.108(9)"c"*

2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.

a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;

b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.

c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 24.108(17)"a", 567 IAC 24.108(17)"b"*

3. A permit shall be reopened and revised under any of the following circumstances:

a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;

b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;

c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.

d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 24.114*

4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 24.114*

5. A notice of intent shall be provided to the Title V source at least 30 days in advance of the date the permit is to be reopened, except that the director may provide a shorter time period in the case of an emergency. *567 IAC 24.114*

G25. Permit Shield

1. The director may expressly include in a Title V permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:

a. Such applicable requirements are included and are specifically identified in the permit; or

b. The director, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.

2. A Title V permit that does not expressly state that a permit shield exists shall be presumed not to provide such a shield.

3. A permit shield shall not alter or affect the following:

a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;

b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;

c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;

d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 24.108 (18)*

G26. Severability

The provisions of this permit are severable and if any provision or application of any provision is found to be invalid by this department or a court of law, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected by such finding. *567 IAC 24.108 (8)*

G27. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege. *567 IAC 24.108 (9)"d"*

G28. Transferability

This permit is not transferable from one source to another. If title to the facility or any part of it is transferred, an administrative amendment to the permit must be sought consistent with the requirements of 567 IAC 24.111(1). *567 IAC 24.111 (1)"d"*

G29. Disclaimer

No review has been undertaken on the engineering aspects of the equipment or control equipment other than the potential of that equipment for reducing air contaminant emissions. *567 IAC 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 (42 days) of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.

Stack test notifications, reports and correspondence shall be sent to:

STACK TEST REVIEW COORDINATOR
IOWA DNR, AIR QUALITY BUREAU
6200 PARK AVE
SUITE 200
DES MOINES, IA 50321
(515) 343-6589

Within Polk and Linn Counties, stack test notifications, reports and correspondence shall also be directed to the supervisor of the respective county air pollution program.

567 IAC 21.10(7)"a", 567 IAC 21.10(9)

G31. Prevention of Air Pollution Emergency Episodes

The permittee shall comply with the provisions of 567 IAC Chapter 26 in the prevention of excessive build-up of air contaminants during air pollution episodes, thereby preventing the occurrence of an emergency due to the effects of these contaminants on the health of persons.

567 IAC 26.1(1)

G32. Contacts List

The current address and phone number for reports and notifications to the EPA administrator is:

IOWA COMPLIANCE OFFICER
AIR BRANCH
ENFORCEMENT AND COMPLIANCE ASSURANCE DIVISION
U.S. EPA REGION 7
11201 RENNER BLVD.
LENEXA, KS 66219
(913) 551-7020

The current address and phone number for reports and notifications to the department or the Director is:

CHIEF, AIR QUALITY BUREAU
IOWA DEPARTMENT OF NATURAL RESOURCES
6200 PARK AVE
SUITE 200
DES MOINES, IA 50321
(515) 313-8325

Reports or notifications to the DNR Field Offices shall be directed to the supervisor at the appropriate field office or local program. Current addresses and phone numbers are:

Field Office 1
1101 COMMERCIAL COURT, SUITE 10
MANCHESTER, IA 52057
(563) 927-2640

Field Office 2
2300-15TH ST., SW
MASON CITY, IA 50401
(641) 424-4073

Field Office 3
1900 N. GRAND AVE.
SPENCER, IA 51301
(712) 262-4177

Field Office 4
1401 SUNNYSIDE LANE
ATLANTIC, IA 50022
(712) 243-1934

Field Office 5
6200 PARK AVE
SUITE 200
DES MOINES, IA 50321
(515) 725-0268

Field Office 6
1023 WEST MADISON STREET
WASHINGTON, IA 52353-1623
(319) 653-2135

Polk County Public Works Dept.
AIR QUALITY DIVISION
5885 NE 14TH ST.
DES MOINES, IA 50313
(515) 286-3351

Linn County Public Health
AIR QUALITY BRANCH
1020 6TH STREET SE
CEDAR RAPIDS, IA 52401
(319) 892-6000

V. Appendix A: Web Links to Standards

A. 40 CFR 60 Subpart A – *General Provisions* for New Source Performance Standards.
https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-A

B. 40 CFR Part 60 Subpart Db - Standards of Performance for *Industrial Commercial Institutional Steam Generating Units.*
https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-Db

C. 40 CFR Part 60 Subpart Dc - Standards of Performance for *Small Industrial Commercial Institutional Steam Generating Units.*
https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-Dc

D. 40 CFR Part 60 Subpart IIII Standards of Performance for *Stationary Compression Ignition Internal Combustion Engines.*
https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-IIII

E. 40 CFR Part 60 Subpart JJJJ Standards of Performance for Stationary *Spark Ignition Internal Combustion Engines.*
https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-JJJJ

F. 40 CFR 63 Subpart A – *General Provisions* for National Emission Standards for Hazardous Air Pollutants.
https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-A

G. 40 CFR 63 Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for *Stationary Reciprocating Internal Combustion Engines.*
https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-ZZZZ

H. 40 CFR 63 Subpart DDDDD – National Emission Standards for Hazardous Air Pollutants for *Industrial, Commercial, And Institutional Boilers*..
https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-DDDDD

Appendix B: Executive Order (EO10) Rules Crosswalk

Previous Chapter Number (Prior to 5/15/2024)	Current Chapter Number	Previous Title and Description (Prior to 5/15/2024)	Current Title and Description	Actions Taken
20	**20 (Reserved)**	Scope of Title - Definitions	N/A	**Definitions moved** to Ch. 21, 22 and 23. **Rescinded** Ch. 20. (Reserved)
21	**21**	Compliance	Compliance, Excess Emissions, and Measurement of Emissions	**Kept and combined** with rules from Chapters 24, 25, 26, and 29.
22	**22**	Controlling Pollution-Permits	Controlling Air Pollution - Construction Permitting	**Kept construction permit rules and combined** with Ch. 20 (definitions) and Ch. 28 (NAAQS). **Moved operating permit rules** to Chapter 24.
22.100 - 22.300(12)	**(New) 24**	N/A	Operating Permits	**Moved operating permit rules** from Ch. 22 to Ch. 24.
23	**23**	Emission Standards	Air Emission Standards	**Kept**
24	**(New) 21**	Excess Emissions	Compliance, Excess Emissions, and Measurement of Emissions	**Moved rules and combined** with Ch. 21. **Moved TV rules** here (to Ch. 24).
25	**(New) 21**	Emissions Measurement	Compliance, Excess Emissions, and Measurement of Emissions	**Moved rules and combined** with Ch. 21. **Rescinded** Ch. 25. (Reserved)
26	**(New) 21**	Emergency Air Pollution Episodes	Compliance, Excess Emissions, and Measurement of Emissions	**Moved rules and combined** with Ch. 21. **Rescinded** Ch. 26. (Reserved)
27	**27**	Local Program Acceptance	Local Program Acceptance	**Kept**
28	**22**	NAAQS	N/A	**Moved rules and combined** with Ch. 22. **Rescinded** Ch. 28. (Reserved)
29	**(New) 21**	Opacity Qualifications	Compliance, Excess Emissions, and Measurement of Emissions	**Moved rules and combined** with Ch. 21. **Rescinded** Ch. 29. (Reserved)
30	**30**	Fees	Fee	**Kept**
31	**31**	Nonattainment Areas	Nonattainment New Source Review	**Kept**
32	**N/A**	AFO Field Study	N/A	**Rescinded** Ch. 32. (Reserved)
33	**33**	Special regulations and construction permit requirements for major stationary sources—Prevention of significant deterioration (PSD) of air quality	Construction permit requirements for major stationary sources—Prevention of significant deterioration (PSD)	**Kept**
34	**N/A**	Emissions Trading-CAIR-CAMR	N/A	**Rescinded** Ch. 34. (Reserved)
35	**N/A**	Grant Assistance Programs	N/A	**Rescinded** Ch. 35. (Reserved)

Previous Chapter Number (Priorto 5/15/2024)	Current Chapter Number	Previous Title and Description (Prior to 5/15/2024)	Current Title and Description	Actions Taken
20	**20 (Reserved)**	**Scope of Title - Definitions**	**N/A**	**Definitions moved** to Ch. 21, 22 and 23. **Rescinded** Ch. 20. (Reserved)
20.1	N/A	Scope of title	N/A	
20.2	Ch. 21, 22, 23	Definitions	Definitions	See beginning of Ch. 21, 22, and 23
20.3	N/A	Air quality forms generally	N/A	

21	**21**	**Compliance**	**Compliance, Excess Emissions, and Measurement of Emissions**	**Kept and combined** with rules from Chapters 24, 25, 26, and 29.
21.1	21.1	Compliance Schedule	Definitions and compliance requirements	Added definitions from Ch. 21, some language updated
21.2	21.2	Variances	Variances	Some language updated
21.3	21.3	Emission reduction program	Reserved	Reserved
21.4	21.4	Circumvention of rules	Circumvention of rules	Minor language updated
21.5	21.5	Evidence used in establishing that a violation has or is occurring	Evidence used in establishing that a violation has occurred or is occurring	21.5(2) Reserved, some language updated
21.6	21.6	Temporary electricity generation for disaster situations	Temporary electricity generation for disaster situations	Minor language updated
24.1	21.7	Excess emission reporting	Excess emission reporting	Moved from Ch. 24, some language updated
24.2	21.8	Maintenance and repair requirements	Maintenance and repair requirements	Moved from Ch. 24, some language updated
N/A	21.9	N/A	Compliance with other requirements	New language
25.1	21.10	Testing and sampling of new and existing equipment	Testing and sampling of new and existing equipment	Moved from Ch. 25, some language updated
25.2	21.11	Continuous emission monitoring under the acid rain program	Continuous emission monitoring under the acid rain program	Moved from Ch. 25, some language updated
25.3	N/A	Mercury emissions testing and monitoring	N/A	Rescinded. Except 25.3(5)
25.3(5)	21.12	Affected sources subject to Section 112(g)	Affected sources subject to Section 112(g)	Moved from Ch. 25, some language updated
29.1	21.13	Methodology and qualified observer	Methodology and qualified observer	Moved from Ch. 29, some language updated
26.1	21.14	Prevention of air pollution emergency episodes - General	Prevention of air pollution emergency episodes	Moved from Ch. 26, some language updated
26.2	21.15	Episode criteria	Episode criteria	Moved from Ch. 26, some language updated
26.3	21.16	Preplanned abatement strategies	Preplanned abatement strategies	Moved from Ch. 26, some language updated
26.4	21.17	Actions taken during episodes	Actions taken during episodes	Moved from Ch. 26, some language updated
Ch 26 Table III	Table I	Abatement strategies emission reduction actions alert level	Abatement strategies emission reduction actions alert level	Moved from Ch. 26, reference federal appendix table
Ch 26 Table IV	Table II	Abatement strategies emission reduction actions warning level	Abatement strategies emission reduction actions warning level	Moved from Ch. 26, reference federal appendix table
Ch 26 Table V	Table III	Abatement strategies emission reduction actions emergency level	Abatement strategies emission reduction actions emergency level	Moved from Ch. 26, reference federal appendix table

22	**22**	**Controlling Pollution-Permits**	**Controlling Air Pollution - Construction Permitting**	**Kept construction permit rules and combined** with Ch. 20 (definitions) and Ch. 28 (NAAQS). **Moved operating permit rules** to Chapter 24.
22.1	22.1	Permits required for new or existing stationary sources	Definitions and permit requirements for new or existing stationary sources	Added definitions from Ch. 20, some language updated
22.2	22.2	Processing permit applications	Processing permit applications	
22.3	22.3	Issuing permits	Issuing permits	
22.4	22.4	Special requirements for major stationary sources located in areas designated attainment or unclassified (PSD)	Major stationary sources located in areas designated attainment or unclassified (PSD)	
22.5	22.5	Special requirements for nonattainment areas	Major stationary sources located in areas designated Nonattainment	
22.6	22.6	Nonattainment area designations	Reserved	

Previous Chapter Number (Prior to 5/15/2024)	Current Chapter Number	Previous Title and Description (Prior to 5/15/2024)	Current Title and Description	Actions Taken
22.7	22.7	Alternative emission control program	Alternative emission control program	
22.8	22.8	Permit by rule	Permit by rule	
22.9	22.9	Special requirements for visibility protection	Special requirements for visibility protection	A lot of language updated or removed
22.10	22.10	Permitting requirements for country grain elevators, country grain terminal elevators, grain terminal elevators and feed mill equipment	Permitting requirements for country grain elevators, country grain terminal elevators, grain terminal elevators and feed mill equipment	
28.1	22.11	Ambient air quality standards - Statewide standards	Ambient air quality standards	Moved from Ch. 28, minor language updated
22.12 to 22.99	N/A	Reserved	N/A	Removed

22.100 - 22.300(12)	**(New) 24**	**N/A**	**Operating Permits**	**Moved operating permit rules** from Ch. 22 to Ch. 24.
22.100	24.100	Definitions for Title V operating permits	Definitions for Title V operating permits	Moved from Ch. 22, some language updated, many 40 CFR 70 definitions adopted by reference
22.101	24.101	Applicability of Title V operating permit requirements	Applicability of Title V operating permit requirements	Moved from Ch. 22, some language updated to correct punctuation and remove old dates
22.102	24.102	Source category exemptions	Source category exemptions	Moved from Ch. 22, some language updated to correct punctuation
22.103	24.103	Insignificant activities	Insignificant activities	Moved from Ch. 22, some language updated to correct typos and remove old dates
22.104	24.104	Requirement to have a Title V permit	Requirement to have a Title V permit	Moved from Ch. 22, some language updated no changes to rule text
22.105	24.105	Title V permit applications	Title V permit applications	Moved from Ch. 22, updated language to address electronic submissions and remove past application due dates
22.106	24.106	Annual Title V emissions inventory	Annual Title V emissions inventory	Moved from Ch. 22, no changes to rule text
22.107	24.107	Title V permit processing procedures	Title V permit processing procedures	Moved from Ch. 22, some language updated to update locations of public records and remove old CFR amendment dates
22.108	24.108	Permit content	Permit content	Moved from Ch. 22, some language updated to correct punctuation, remove old dates, and adopt 40 CFR 70 rules by reference
22.109	24.109	General permits	General permits	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.110	24.110	Changes allowed without a Title V permit revision (off-permit revisions)	Changes allowed without a Title V permit revision (off-permit revisions)	Moved from Ch. 22, some language updated to remove redundant language
22.111	24.111	Administrative amendments to Title V permits	Administrative amendments to Title V permits	Moved from Ch. 22, no changes to rule text
22.112	24.112	Minor Title V permit modifications	Minor Title V permit modifications	Moved from Ch. 22, no changes to rule text
22.113	24.113	Significant Title V permit modifications	Significant Title V permit modifications	Moved from Ch. 22, no changes to rule text
22.114	24.114	Title V permit reopenings	Title V permit re-openings	Moved from Ch. 22 to Ch. 24, some language updated to adopt 40 CFR 70 rules by reference
22.115	24.115	Suspension, termination, and revocation of Title V permits	Suspension, termination, and revocation of Title V permits	Moved from Ch. 22, no changes to rule text
22.116	24.116	Title V permit renewals	Title V permit renewals	Moved from Ch. 22, no changes to rule text
22.117-22.119	24.117-24.119	Reserved	Reserved	Moved from Ch. 22, no changes to rule text
22.120	24.120	Acid rain program—definitions	Acid rain program—definitions	Moved from Ch. 22, some language updated to remove old CFR amendment dates and address electronic submissions
22.121	24.121	Measurements, abbreviations, and acronyms	Reserved	Moved from Ch. 22, no changes to rule text
22.122	24.122	Applicability	Applicability	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.123	24.123	Acid rain exemptions	Acid rain exemptions	Moved from Ch. 22, some language updated to correct punctuation
22.124	24.124	Retired units exemption	Reserved	Moved from Ch. 22, no changes to rule text
22.125	24.125	Standard requirements	Standard requirements	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.126	24.126	Designated representative—submissions	Designated representative—submissions	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.127	24.127	Designated representative—objections	Designated representative—objections	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.128	24.128	Acid rain applications—requirement to apply	Acid rain applications—requirement to apply	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference

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22.129	24.129	Information requirements for acid rain permit applications	Information requirements for acid rain permit applications	Moved from Ch. 22, no changes to rule text
22.130	24.130	Acid rain permit application shield and binding effect of permit application	Acid rain permit application shield and binding effect of permit application	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.131	24.131	Acid rain compliance plan and compliance options—general	Acid rain compliance plan and compliance options—general	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.132	24.132	Repowering extensions	Reserved	Moved from Ch. 22, no changes to rule text
22.133	24.133	Acid rain permit contents—general	Acid rain permit contents—general	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.134	24.134	Acid rain permit shield	Acid rain permit shield	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.135	24.135	Acid rain permit issuance procedures—general	Acid rain permit issuance procedures—general	Moved from Ch. 22, no changes to rule text
22.136	24.136	Acid rain permit issuance procedures—completeness	Acid rain permit issuance procedures—completeness	Moved from Ch. 22, no changes to rule text
22.137	24.137	Acid rain permit issuance procedures—statement of basis	Acid rain permit issuance procedures—statement of basis	Moved from Ch. 22, no changes to rule text
22.138	24.138	Issuance of acid rain permits	Issuance of acid rain permits	Moved from Ch. 22, some language updated to remove old dates and deadlines
22.139	24.139	Acid rain permit appeal procedures	Acid rain permit appeal procedures	Moved from Ch. 22, no changes to rule text
22.140	24.140	Permit revisions—general	Permit revisions—general	Moved from Ch. 22, some language updated to remove old dates
22.141	24.141	Permit modifications	Permit modifications	Moved from Ch. 22, no changes to rule text
22.142	24.142	Fast-track modifications	Fast-track modifications	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.143	24.143	Administrative permit amendment	Administrative permit amendment	Moved from Ch. 22, some language updated to remove fax option
22.144	24.144	Automatic permit amendment	Automatic permit amendment	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.145	24.145	Permit reopenings	Permit re-openings	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.146	24.146	Compliance certification—annual report	Compliance certification—annual report	Moved from Ch. 22, no changes to rule text
22.147	24.147	Compliance certification—units with repowering extension plans	Reserved	Moved from Ch. 22, no changes to rule text
22.148	24.148	Sulfur dioxide opt-ins	Sulfur dioxide opt-ins	Moved from Ch. 22, some language updated to update the 40 CFR Part 74 amendment date
22.149 - 22.199	24.149 - 24.299	Reserved	Reserved	Moved from Ch. 22, no changes to rule text
22.200	24.200 - 24.299	Definitions for voluntary operating permits	Reserved	Moved from Ch. 22, no changes to rule text
22.201	24.200 - 24.299	Eligibility for voluntary operating permits	Reserved	Moved from Ch. 22, no changes to rule text
22.203	24.200 - 24.299	Voluntary operating permit applications	Reserved	Moved from Ch. 22, no changes to rule text
22.204	24.200 - 24.299	Voluntary operating permit fees	Reserved	Moved from Ch. 22, no changes to rule text
22.205	24.200 - 24.299	Voluntary operating permit processing procedures	Reserved	Moved from Ch. 22, no changes to rule text
22.206	24.200 - 24.299	Permit content	Reserved	Moved from Ch. 22, no changes to rule text
22.207	24.200 - 24.299	Relation to construction permits	Reserved	Moved from Ch. 22, no changes to rule text
22.208	24.200 - 24.299	Suspension, termination, and revocation of voluntary operating permits	Reserved	Moved from Ch. 22, no changes to rule text
22.209	24.200 - 24.299	Change of ownership for facilities with voluntary operating permits	Reserved	Moved from Ch. 22, no changes to rule text
22.210 - 22.299	24.200 - 24.299	Reserved	Reserved	Moved from Ch. 22, no changes to rule text
22.300	24.300	Operating permit by rule for small sources	Operating permit by rule for small sources	Moved from Ch. 22, no changes to rule text

23	23	Emission Standards	Air Emission Standards	Kept
23.1	23.1	Emission standards	Emission standards	Kept, language updated, tables used
23.2	23.2	Open burning	Open burning	Kept, some language updated
23.3	23.3	Specific contaminants	Specific contaminants	Kept, some language updated
23.4	23.4	Specific processes	Specific processes	Kept, some language updated
23.5	23.5	Anaerobic lagoons	Anaerobic lagoons	Kept, some language updated
23.6	23.6	Alternative emission limits (the “bubble concept”)	Reserved	Removed

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24	**(New) 21**	**Excess Emissions**	**Compliance, Excess Emissions, and Measurement of Emissions**	**Moved rules and combined** with Ch. 21. **Moved operating permit rules** here (to Ch. 24)**.**
24.1	21.7	Excess emission reporting	Excess emission reporting	Moved from Ch. 24, some language updated
24.2	21.8	Maintenance and repair requirements	Maintenance and repair requirements	Moved from Ch. 24, some language updated

25	**(New) 21**	**Emissions Measurement**	**Compliance, Excess Emissions, and Measurement of Emissions**	**Moved rules and combined** with Ch. 21. **Rescinded** Ch. 25. (Reserved)
25.1	21.10	Testing and sampling of new and existing equipment	Testing and sampling of new and existing equipment	Moved from Ch. 25, some language updated
25.2	21.11	Continuous emission monitoring under the acid rain program	Continuous emission monitoring under the acid rain program	Moved from Ch. 25, some language updated
25.3		Mercury emissions testing and monitoring	N/A	Rescinded. Except 25.3(5)
25.3(5)	21.12	Affected sources subject to Section 112(g)	Affected sources subject to Section 112(g)	Moved from Ch. 25, some language updated

26	**(New) 21**	**Emergency Air Pollution Episodes**	**Compliance, Excess Emissions, and Measurement of Emissions**	**Moved rules and combined** with Ch. 21. **Rescinded** Ch. 26. (Reserved)
26.1	21.14	Prevention of air pollution emergency episodes - General	Prevention of air pollution emergency episodes	Moved from Ch. 26, some language updated
26.2	21.15	Episode criteria	Episode criteria	Moved from Ch. 26, some language updated
26.3	21.16	Preplanned abatement strategies	Preplanned abatement strategies	Moved from Ch. 26, some language updated
26.4	21.17	Actions taken during episodes	Actions taken during episodes	Moved from Ch. 26, some language updated
Ch 26 Table III	Table I	Abatement strategies emission reduction actions alert level	Abatement strategies emission reduction actions alert level	Moved from Ch. 26, reference federal appendix table
Ch 26 Table IV	Table II	Abatement strategies emission reduction actions warning level	Abatement strategies emission reduction actions warning level	Moved from Ch. 26, reference federal appendix table
Ch 26Table V	Table III	Abatement strategies emission reduction actions emergency level	Abatement strategies emission reduction actions emergency level	Moved from Ch. 26, reference federal appendix table

27	**27**	**Local Program Acceptance**	**Local Program Acceptance**	**Kept**
27.1	27.1	General	General	Kept, some language updated
27.2	27.2	Certificate of acceptance	Certificate of acceptance	Kept, some language updated
27.3	27.3	Ordinance or regulations	Ordinance or regulations	Kept, some language updated
27.4	27.4	Administrative organization	Administrative organization	Kept, some language updated
27.5	27.5	Program activities	Program activities	Kept, some language updated

28	**22**	**NAAQS**	**N/A**	**Moved rules and combined** with Ch. 22. **Rescinded** Ch. 28. (Reserved)
28.1	22.11	Ambient air quality standards - Statewide standards	Ambient air quality standards	**Moved from Ch. 28**, minor language updated **Rescinded** Ch. 28. (Reserved)

29	**(New) 21**	**Opacity Qualifications**	**Compliance, Excess Emissions, and Measurement of Emissions**	**Moved rules and combined** with Ch. 21. **Rescinded** Ch. 29. (Reserved)
29.1	21.13	Methodology and qualified observer	Methodology and qualified observer	Moved from Ch. 29, some language updated

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30	**30**	**Fees**	**Fee**	**Kept**
30.1	30.1	Purpose	Purpose	Kept, language updated
30.2	30.2	Fees associated with new source review applications	Fees associated with new source review applications	Kept, some language updated
30.3	30.3	Fees associated with asbestos demolition or renovation notification	Fees associated with asbestos demolition or renovation notification	Kept, some language updated
30.4	30.4	Fees associated with Title V operating permits	Fees associated with Title V operating permits	Kept, some language updated
30.5	30.5	Fee advisory groups	Fee advisory groups	Kept, language updated
30.6	30.6	Process to establish or adjust fees and notification of fee rates	Process to establish or adjust fees and notification of fee rates	Kept, some language updated
30.7	30.7	Fee revenue	Reserved	Language removed

31	**31**	**Nonattainment Areas**	**Nonattainment New Source Review**	**Kept**
31.1	31.1	Permit requirements relating to nonattainment areas	Permit requirements relating to nonattainment areas	Kept, some language updated
31.2	31.2	Conformity of general federal actions to the Iowa state implementation plan or federal implementation plan - Rescinded	Reserved	Language removed
31.3	31.3	Nonattainment new source review requirements for areas designated nonattainment on or after May 18, 1998	Nonattainment new source review (NNSR) requirements for areas designated nonattainment	Kept, some language updated
31.4	31.4	Preconstruction review permit program	Preconstruction review permit program	Kept
31.5 - 31.8	31.5 - 31.8	Reserved	Reserved	Kept
31.9	31.9	Actuals PALs	Actuals PALs	Kept, some language updated
31.10	31.10	Validity of rules	Validity of rules	Kept
31.11 - 31.19	N/A	Reserved	N/A	Rescinded and removed
31.20	N/A	Special requirements for nonattainment areas designated before May 18, 1998	N/A	Rescinded and removed

32	**N/A**	**AFO Field Study**	**N/A**	**Rescinded** Ch. 32. (Reserved)
32.1	N/A	Animal feeding operations field study	N/A	Rescinded, reserved, and language removed
32.2	N/A	Definitions	N/A	Rescinded, reserved, and language removed
32.3	N/A	Exceedance of the health effects value (HEV) for hydrogen sulfide	N/A	Rescinded, reserved, and language removed
32.4	N/A	Exceedance of the health effects standard (HES) for hydrogen sulfide	N/A	Rescinded, reserved, and language removed
32.5	N/A	Iowa Air Sampling Manual	N/A	Rescinded, reserved, and language removed

33	**33**	**Special regulations and construction permit requirements for major stationary sources—Prevention of significant deterioration (PSD) of air quality**	**Construction permit requirements for major stationary sources—Prevention of significant deterioration (PSD)**	**Kept**
33.1	33.1	Purpose	Purpose	Kept, some language updated
33.2	33.2	Reserved	Reserved	Kept
33.3	33.3	Special construction permit requirements for major stationary sources in areas designated attainment or unclassified (PSD)	PSD construction permit requirements for major stationary sources	Kept, some language updated
33.4 - 33.8	33.4 - 33.8	Reserved	Reserved	Kept
33.9	33.9	Plantwide applicability limitations (PALs)	Plantwide applicability limitations (PALs)	Kept, some language updated
33.10	33.10	Exceptions to adoption by reference	Exceptions to adoption by reference	Kept, some language updated

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34	**N/A**	**Emissions Trading-CAIR-CAMR**	**N/A**	**Rescinded** Ch. 34. (Reserved)
34.1	N/A	Purpose	N/A	Rescinded, reserved, and language removed
34.2 - 34.199	N/A	Reserved	N/A	Rescinded, reserved, and language removed
34.200	N/A	Provisions for air emissions trading and other requirements for the Clean Air Interstate Rule (CAIR) - rescinded	N/A	Rescinded, reserved, and language removed
34.201	N/A	CAIR NOx annual trading program general provisions - rescinded	N/A	Rescinded, reserved, and language removed
34.202	N/A	CAIR designated representative for CAIR NOx sources - rescinded	N/A	Rescinded, reserved, and language removed
34.203	N/A	Permits - rescinded	N/A	Rescinded, reserved, and language removed
34.204	N/A	Reserved	N/A	Rescinded, reserved, and language removed
34.205	N/A	CAIR NOx allowance allocations - rescinded	N/A	Rescinded, reserved, and language removed
34.206	N/A	CAIR NOx allowance tracking system - rescinded	N/A	Rescinded, reserved, and language removed
34.207	N/A	CAIR NOx allowance transfers - rescinded	N/A	Rescinded, reserved, and language removed
34.208	N/A	Monitoring and reporting - rescinded	N/A	Rescinded, reserved, and language removed
34.209	N/A	CAIR NOx opt-in units - rescinded	N/A	Rescinded, reserved, and language removed
34.210	N/A	CAIR SO2 trading program - rescinded	N/A	Rescinded, reserved, and language removed
34.211 - 34.219	N/A	Reserved	N/A	Rescinded, reserved, and language removed
34.220	N/A	CAIR NOx ozone season trading program - rescinded	N/A	Rescinded, reserved, and language removed
34.221	N/A	CAIR NOx ozone season trading program general provisions - rescinded	N/A	Rescinded, reserved, and language removed
34.222	N/A	CAIR designated representative for CAIR NOx ozone season sources - rescinded	N/A	Rescinded, reserved, and language removed
34.223	N/A	CAIR NOx ozone season permits - rescinded	N/A	Rescinded, reserved, and language removed
34.224	N/A	Reserved	N/A	Rescinded, reserved, and language removed
34.225	N/A	CAIR NOx ozone season allowance allocations - rescinded	N/A	Rescinded, reserved, and language removed
34.226	N/A	CAIR NOx ozone season allowance tracking system - rescinded	N/A	Rescinded, reserved, and language removed
34.227	N/A	CAIR NOx ozone season allowance transfers - rescinded	N/A	Rescinded, reserved, and language removed
34.228	N/A	CAIR NOx ozone season monitoring and reporting - rescinded	N/A	Rescinded, reserved, and language removed
34.229	N/A	CAIR NOx ozone season opt-in units - rescinded	N/A	Rescinded, reserved, and language removed
34.230 - 34.299	N/A	Reserved	N/A	Rescinded, reserved, and language removed
34.300	N/A	Provisions for air emissions trading and other requirements for the Clean Air Mercury Rule (CAMR) - rescinded	N/A	Rescinded, reserved, and language removed
34.301	N/A	Mercury (Hg) budget trading program general provisions - rescinded	N/A	Rescinded, reserved, and language removed
34.302	N/A	Hg designated representative for Hg budget sources - rescinded	N/A	Rescinded, reserved, and language removed
34.303	N/A	General Hg budget trading program permit requirements - rescinded	N/A	Rescinded, reserved, and language removed
34.304	N/A	Hg allowance allocations - rescinded	N/A	Rescinded, reserved, and language removed
34.305	N/A	Hg allowance tracking system - rescinded	N/A	Rescinded, reserved, and language removed

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34.306	N/A	Hg allowance transfers - rescinded	N/A	Rescinded, reserved, and language removed
34.307	N/A	Monitoring and reporting - rescinded	N/A	Rescinded, reserved, and language removed
34.308	N/A	Performance specifications - rescinded	N/A	Rescinded, reserved, and language removed
35	**N/A**	**Grant Assistance Programs**	**N/A**	**Rescinded** Ch. 35. (Reserved)
35.1	N/A	Purpose	N/A	Rescinded, reserved, and language removed
35.2	N/A	Definitions	N/A	Rescinded, reserved, and language removed
35.3	N/A	Role of the department of natural resources	N/A	Rescinded, reserved, and language removed
35.4	N/A	Eligible projects	N/A	Rescinded, reserved, and language removed
35.5	N/A	Forms	N/A	Rescinded, reserved, and language removed
35.6	N/A	Project selection	N/A	Rescinded, reserved, and language removed
35.7	N/A	Funding sources	N/A	Rescinded, reserved, and language removed
35.8	N/A	Type of financial assistance	N/A	Rescinded, reserved, and language removed
35.9	N/A	Term of loans	N/A	Rescinded, reserved, and language removed
35.10	N/A	Reduced award	N/A	Rescinded, reserved, and language removed
35.11	N/A	Fund disbursement limitations	N/A	Rescinded, reserved, and language removed
35.12	N/A	Applicant cost share	N/A	Rescinded, reserved, and language removed
35.13	N/A	Eligible costs	N/A	Rescinded, reserved, and language removed
35.14	N/A	Ineligible costs	N/A	Rescinded, reserved, and language removed
35.15	N/A	Written agreement	N/A	Rescinded, reserved, and language removed
35.16	N/A	Financial assistance denial	N/A	Rescinded, reserved, and language removed