Iowa Department of Natural Resources
Title V Operating Permit

Name of Permitted Facility:
John Deere Waterloo Works – Drive Train Operations
Facility Location: 300 W Commercial St, Waterloo, IA 50701
Air Quality Operating Permit Number: 03-TV-027R3
Expiration Date: July 6, 2028
Permit Renewal Application Deadline: January 6, 2028

EIQ Number: 92-1319
Facility File Number: 07-01-077

Responsible Official
Name: David Davis
Title: Operations Manager
Mailing Address: PO Box 270, Waterloo, IA 50704
Phone #: 319-292-4926

Permit Contact Person for the Facility
Name: Lain Pacini
Title: Regulatory Specialist, Air
Mailing Address: PO Box 8000, Waterloo, IA 50704
Phone #: 319-292-6074

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

For the Director of the Department of Natural Resources

Marnie Stein 7/07/2023

Marnie Stein, Supervisor of Air Operating Permits Section

Table of Contents

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
gr./dscf .....grains per dry standard cubic foot
gr./100 cf.....grains per one hundred cubic feet
IAC.....Iowa Administrative Code
IDNR.....Iowa Department of Natural Resources
MVAC.....motor vehicle air conditioner

NAICS.....North American Industry Classification System
NSPS .....new source performance standard
ppmv .....parts per million by volume
lb./hr.....pounds per hour
lb./MMBtu .....pounds per million British thermal units

SCC.....Source Classification Codes
scfm.....standard cubic feet per minute
SIC……..Standard Industrial Classification
TPY .....tons per year
USEPA.....United States Environmental Protection Agency

Pollutants
PM.....particulate matter
PM_{10} .....particulate matter ten microns or less in diameter
SO_2 .....sulfur dioxide
NO_x .....nitrogen oxides
VOC……...volatile organic compound
CO.....carbon monoxide
HAP.....hazardous air pollutant

I. Facility Description and Equipment List

Facility Name: John Deere Waterloo Works – Drive Train Operations
Permit Number: 03-TV-027R3

Facility Description: Farm Machinery and Equipment Manufacturing (SIC 3523)

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
Tumblast Units			
P5-02	P5-02	Tumblast 2830	79-A-229
P5-03	P5-03	Tumblast 5252	78-A-003
Sludge Conditioning			
J7-01	J7-01	Dry Lime Storage Silo	86-A-030
J7-02	J7-02	Dry Lime Storage Silo	89-A-229
J7-03	J7-03	Sludge Conditioning Tank	91-A-078
J7-04	J7-04	Lime Slurry Tank	91-A-079
Boilers: 1020 BLD			
1020-13	1020-13	Boiler	97-A-289-S4
1020-14	1020-14	Boiler	97-A-290-S4
Boilers: Z BLD			
Z1-05	Z1-05	Boiler #1	97-A-512-S5
Z1-06	Z1-06	Boiler #2	97-A-513-S5
Z1-07	Z1-07	Boiler #3	97-A-514-S5
Boilers: A BLD			
A1-01	A1-01	Boiler	Exempt
A1-02	A1-02	Boiler	Exempt
Welding Stations			
1020-28	1020-28	Robotic Welders A and B	13-A-196-P3
Thermal Deburr			
H1-TD	H1-TD	Thermal Deburring	13-A-197-P2

Miscellaneous Sources			
1020-15	1020-15	Solvent Washer Machine 6269	00-A-001-S1
P5-15	K2-04	Plasma Cutting Booth	02-A-588-S3
Z2-02	Z2-02	Acid Etch Station 2	12-A-507-P1
PSD Washers	PSD Washers	17 Aqueous Washers	13-A-193-P1
WWTP Fugitive	WWTP	WWTP fugitive losses	Exempt
Emergency Generators			
P5-21	P5-21	Emergency Generator	Exempt
H3-36	H3-36	Emergency Generator	Exempt
P5-3299056	P5-3299056	Emergency Generator	Exempt
Surface Coating Sources			
H4-08	H4-08	Stop Off Drying Area	13-A-198-P
H4-09	H4-09	Stop Off Spray Booth	13-A-199-P
ACS 1&2 Fugitive	ACS 1&2	Autophoretic Coating System I (S) & II (N)	Exempt
Adhesive Fugitive	Adhesive Fugitive MMMM	Facility Adhesives Subject to MMMM	Exempt
Process Heaters: Permitted			
H4-2A	H4-0A-HT	Heat Treat Furnace	12-A-505-P2
	H4-1A-HT		
	H4-2A-HT		
	H4-3A-HT		
	H4-4A-HT		
	H4-5A-HT		
H4-2B	H4-0B-HT	Heat Treat Furnace	12-A-506-P2
	H4-1B-HT		
	H4-2B-HT		
	H4-3B-HT		
	H4-4B-HT		
	H4-5B-HT		
H4-1A	H4-0A-EQ	Endo Gas Generation & Quench	13-A-194-P2
	H4-1A-EQ		
	H4-2A-EQ		
	H4-3A-EQ		
	H4-4A-EQ		
	H4-5A-EQ		
H4-1B	H4-0B-EQ	Endo Gas Generation & Quench	13-A-195-P2
	H4-1B-EQ		
	H4-2B-EQ		
	H4-3B-EQ		
	H4-4B-EQ		
	H4-5B-EQ		

Process Heaters: Exempt			
H3-BF-1	H3-6192	RTQ Carburizing Furnace	Exempt
	H3-6041	TQF Carburizing Furnaces	
	H3-6073		
H3-BF-2	H3-6084	TQF Carburizing Furnaces	Exempt
	H3-6090		
	H3-6097		
	H3-6098		
H3-BF-3	H3-6104	TQF Carburizing Furnaces	Exempt
	H3-6105		
	H3-6106		
	H3-6107		
H3-HF-5	H3-6217	Rotary Hearth Furnace	Exempt
H3-33	H3-5673	RX Endo Gas Generator Furnace	Exempt
H3-34	H3-5674	RX Endo Gas Generator Furnace	Exempt
H3-35	H3-5675	RX Endo Gas Generator Furnace	Exempt
H3-37	H3-105003	Holcroft Rotary Furnace	Exempt
P5-01	P5-13	Normalizing Furnace 9963	Exempt
P5-M182471	P5-M182471	Normalizing Furnace	Exempt
1020-17	1020-17a	Radiant HT Furnace 8724	Exempt
	1020-17c	Endo Gas Furnace 5184	
H3-HF-1	H3-6041	Ipsen Furnaces 1-11 entrance door exhausts	Exempt
	H3-6073		
	H3-6084		
	H3-6090		
	H3-6097		
	H3-6098		
	H3-6104		
	H3-6105		
	H3-6106		
	H3-6107		
H3-HF-2	H3-6041	Ipsen Furnaces 1-11 exit door exhausts	Exempt
	H3-6073		
	H3-6084		
	H3-6090		
	H3-6097		
	H3-6098		
	H3-6104		
	H3-6105		
	H3-6106		
	H3-6107		

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
H3-6130	Burner Exhaust for WSD Washer 6130 (0.35 MMBtu)
H3-6132	Burner Exhaust for WSD 6132
H3-6134	Burner Exhaust for WSD 6134
H4-123976	Burner Exhaust for WSD 123976 (0.5 & 0.3 MMBtu)
H4-123977	Burner Exhaust for WSD 123977 (0.5 & 0.3 MMBtu)
T-101654	Cutting Oil Tank (7600 gal)
T-101655	Variocut Oil Tank (7600 gal)
T-101656	Synthetic Metal Working Fluid-Soluble Tank (7600 gal)
T-101657	Semi-Synthetic Metal Working Fluid-Soluble Tank (7600 gal)
T-101659	Hydraulic Oil Tank (14,700 gal)
T-3107990D	Plant Diesel Fuel Tank
T-3107990G	Plant Gasoline Fuel Tank
T-6022A	Fresh Cold Quench Oil Tank (8,000 gal)
T-6022B	Fresh Cold Quench Oil Tank (8,000 gal)
T-6022C	Hot Quench Oil Tank (4000 gal)
1020-16	Emergency Generator (1)
Z2-01	Emergency Generator (1)
Misc. RP dip tanks	Rust preventative plant wide dip tanks
Rustilo Coating	Rust preventative applications other than dip tanks
Fuchs Coating	Rust preventative applications other than dip tanks
Fugitive Machining	Interior venting Machining Centers
P5-20	Spinner Cabinet
Z1-11	Bar Blaster for Axle Shaft with dust collector
H3-113349	Shot Peen, Progressive Tech with Donaldson Torit
1020-03	Magnaglo D225
1020-26	Dept304 Manual Welder
1020-27	Plasma Cutter D304
1020-29 D304	SPO D304 Welder 2
EU-509	Welding D509
H24	Washers 6132, 105007 and press quench (2)
H3-01	Manganese Phosphate Line D429
H3-02	Acid Etch D429
H31	Washer 6130, 6134
H3-4990	Shot Blast 4990 Heat Treat
H3-6165	Magnaglo D126
H3-Welder	Welding D516 TIG
H4	Washers 123976 and 123977
IPA	Production cleaning operations
Wash 1020/1021	SPO-Building Aqueous Parts Washers vent inside
Wash H	H-Building Aqueous Parts washers vent inside
Wash Z	Z-Building Aqueous Parts Washers vent inside
Wash Z HT	Washers 2565, 3262, and 1171
Z1-2955	Magnaglo D426
Z1-4865	Magnaglo D536
Z1-6460	Ring Gear Shot Blast 6460

Insignificant Emission Unit Number	Insignificant Emission Unit Description
1010-Nat	Natural Gas Fired Heaters (2.86 MMBtu/hr)
1020-17b	RX Furnace 8727 (2.99 MMBtu)
H3-105004	Holcroft Temper Furnace (1.1 MMBtu/hr)
H3-6108	DL Pre Heat Furnace 6108 (0.761 MMBtu/hr)
H3-6116	DL Pre Heat Furnace 6116 (0.761 MMBtu/hr)
H3-6138	Temper Furnace 6138 (0.37 MMBtu/hr)
H3-6144	Temper Furnace 6144 (0.37 MMBtu/hr)
H3-6149	Temper Furnace 6149 (0.37 MMBtu/hr)
H3-6151	Temper Furnace 6151 (0.37 MMBtu/hr)
H3-6154	Temper Furnace 6154 (0.37 MMBtu/hr)
H3-6159	Temper Furnace 6159 (0.37 MMBtu/hr)
H3-6162	Temper Furnace 6162 (0.37 MMBtu/hr)
H3-6171	Temper Furnace 6171 (0.37 MMBtu/hr)
H3-6172	Temper Furnace 6172 (0.37 MMBtu/hr)
H3-6175	Temper Furnace 6175 (1.421 MMBtu/hr)
H4-124001	Temper Furnace 124001 (0.5 MMBtu/hr)
H4-124002	Temper Furnace 124002 (0.5 MMBtu/hr)
H4-124003	Temper Furnace 124003 (0.5 MMBtu/hr)
H4-124005	Temper Furnace 124005 (0.5 MMBtu/hr)
H4-124006	Temper Furnace 124006 (0.5 MMBtu/hr)
Misc. Lubricant	Fugitive Lubricants Plant Wide
Misc. Solvent	Fugitive Solvent Use Plant Wide
1020-3D-1	SPO 3D Printer 1
T10-R-1	Adhesive Application Robot D542
H3-36-T	Emergency Generator H3-36 fuel tank (100 gal)
Z2-01-T	Emergency generator Z2-01 fuel tank (425 gal)
1020-16-T	Emergency generator 1020-16 fuel tank (77 gal)
P5-21-T	Emergency generator P5-21 fuel tank (15 gal)
Aerosol	Fugitive Aerosol Use Plant Wide
1020-3D-2	SPO 3D Printer 2
West-R-1	DTO West Adhesive Robot #1
West-R-2	DTO West adhesive robot #2
1020-3D-3	SPO 3D Printer 3
LW-1	DTO Laser Welding Cell #1
LW-2	DTO Laser Welding Cell #2
D304-TU	D304 touch up painting – brush on
1020-3D-4	SPO 3D Printer 4
1020-3D-5	SPO 3D Printer 5
Z1-08	Magnaglo D300
H1-TD2	H Building D519 Thermal Deburr #2
DTOW-DED1	DTO West Direct Energy Deposition

(1) This generator is an affected unit under 40 CFR 63 Subpart ZZZZ – NESHAP for Stationary Reciprocating Internal Combustion Engines. However, according to 40 CFR 63.6590(c)(6), this new emergency stationary engine must meet the requirements of 40 CFR 60 Subpart IIII. Because this engine was manufactured prior to April 1, 2006, it is not required to meet the requirements of 40 CFR 63 Subpart ZZZZ or 40 CFR 60 Subpart IIII.

II. Plant-Wide Conditions

Facility Name: John Deere Waterloo Works – Drive Train Operations
Permit Number: 03-TV-027R3

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

Permit Duration

The term of this permit is: 5 years
Commencing on: July 7, 2023
Ending on: July 6, 2028

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

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

Opacity (visible emissions): 40% opacity[(1)]
Authority for Requirement: 567 IAC 23.3(2)"d"

[(1)] Except as provided in 567 IAC 23.3(2)"d"(1)-(6)

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"

III. Emission Point-Specific Conditions

Facility Name: John Deere Waterloo Works – Drive Train Operations
Permit Number: 03-TV-027R3

Emission Point ID Number: P5-02 and P5-03

Associated Equipment

Emissions Control Equipment ID Number: CE 15 and CE 16
Emissions Control Equipment Description: Baghouses

Emission Unit vented through this Emission Point: P5-02
Emission Unit Description: Tumblast 2830 and Tumblast 5252
Raw Material/Fuel: abrasive
Rated Capacity: 54.81 ton/hr each

Applicable Requirements

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: J7-01, J7-02, J7-03, J7-04

Associated Equipment

Emission Point Number	Emission Unit Number	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	DNR Construction Permit
J7-01	J7-01	Dry Lime Storage Silos	CE 08 Baghouse	Lime	12.5 tons/hr	86-A-030
J7-02	J7-02	Dry Lime Storage Silos	CE 09 Baghouse	Lime	12.5 tons/hr	89-A-229
J7-03	J7-03	Sludge Conditioning Tank	CE J7-03 Baghouse	Lime	12.5 tons/hr	91-A-078
J7-04	J7-04	Lime Slurry Tank	CE J7-04 Baghouse	Lime	12.5 tons/hr	91-A-079

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%
Authority for Requirement: 567 IAC 23.3(2)"d"
DNR Construction Permit 91-A-078 and 91-A-079

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a"
DNR Construction Permit 91-A-078 and 91-A-079

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 & Maintenance Plan is required for Emission Points J7-03 and J7-04:
Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 1020-13

Associated Equipment

Emission Unit vented through this Emission Point: 1020-13
Emission Unit Description: Boiler
Raw Material/Fuel: natural gas
Rated Capacity: 10.206 MMBtu/hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 40%[(1)]
Authority for Requirement: 567 IAC 23.3(2)"d"
DNR Construction Permit 97-A-289-S4

[(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): 0.6 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(2)"b"
DNR Construction Permit 97-A-289-S4

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 0.01 lb/hr, 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"
DNR Construction Permit 97-A-289-S4

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

Operating Limits:
Operating limits for this emission unit shall be:

1. This boiler shall burn only natural gas.

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

1. At the end of each calendar month, record the quantity of fuel used in this unit over the previous month. As an alternative to this requirement [40 CFR 60.48c(g)(2)] the facility 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 [40 CFR 60.48c(g)(3)].

Authority for Requirement: DNR Construction Permit 97-A-289-S4

NSPS and NESHAP Applicability:

This unit is subject to the New Source Performance Standard (NSPS) for Industrial-Commercial-Institutional Steam Generating Units.

Authority for Requirement: DNR Construction Permit 97-A-289-S4
40 CFR 60 Subpart Dc
567 IAC 23.1(2)"lll"

This emission point is subject to 40 CFR 63 Subpart DDDDD – National Emission Standards for 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): 45
Stack Opening, (inches, dia.): 20
Exhaust Flow Rate (scfm): 2,040
Exhaust Temperature (°F): 300
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 97-A-289-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 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 1020-14

Associated Equipment

Emission Unit vented through this Emission Point: 1020-14
Emission Unit Description: Boiler
Raw Material/Fuel: natural gas
Rated Capacity: 24.494 MMBtu/hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 40%[(1)]
Authority for Requirement: 567 IAC 23.3(2)"d"
DNR Construction Permit 97-A-290-S4

[(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): 0.6 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(2)"b"
DNR Construction Permit 97-A-290-S4

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 0.025 lb/hr, 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"
DNR Construction Permit 97-A-290-S4

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

Operating Limits:
Operating limits for this emission unit shall be:

1. This boiler shall burn only natural gas.

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

1. At the end of each calendar month, record the quantity of fuel used in this unit over the previous month. As an alternative to meeting this requirement [40 CFR 60.48c(g)(2)] the

facility 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 [40 CFR 60.48c(g)(3)].

Authority for Requirement: DNR Construction Permit 97-A-290-S4

NSPS and NESHAP Applicability:

This unit is subject to the New Source Performance Standard (NSPS) for Industrial-Commercial-Institutional Steam Generating Units.

Authority for Requirement: DNR Construction Permit 97-A-290-S4
40 CFR 60 Subpart Dc
567 IAC 23.1(2)"lll"

This emission point is subject to 40 CFR 63 Subpart DDDDD – National Emission Standards for 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): 45
Stack Opening, (inches, dia.): 24
Exhaust Flow Rate (scfm): 4,900
Exhaust Temperature (°F): 300
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 97-A-290-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 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: Z1-05, Z1-06, and Z1-07

Associated Equipment

Emission Point Number	Emission Unit Number	Emission Unit Description	Raw Material	Rated Capacity	DNR Construction Permit
Z1-05	Z1-05	Boiler #1	Natural Gas	32.658 MMBtu/hr	97-A-512-S5
Z1-06	Z1-06	Boiler #2	Natural Gas	32.658 MMBtu/hr	97-A-513-S5
Z1-07	Z1-07	Boiler #3	Natural Gas	32.658 MMBtu/hr	97-A-514-S5

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 20%, 40%[(1)]
Authority for Requirement: 567 IAC 23.1(2)"lll"
567 IAC 23.3(2)"d"
DNR Construction Permits 97-A-512-S5, 97-A-513-S5, 97-A-514-S5

[(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 10 (PM_{10})
Emission Limit(s): 0.81 lb/hr
Authority for Requirement: 567 IAC 23.3(2)"b"
DNR Construction Permits 97-A-512-S5, 97-A-513-S5, 97-A-514-S5

Pollutant: Particulate Matter (PM)
Emission Limit(s): 2.27 lb/hr, 0.8 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(2)"b"
DNR Construction Permits 97-A-512-S5, 97-A-513-S5, 97-A-513-S5

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 0.04 lb/hr, 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"
DNR Construction Permits 97-A-512-S5, 97-A-513-S5, 97-A-514-S5

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit(s): 3.75 lb/hr
Authority for Requirement:DNR Construction Permits 97-A-512-S5, 97-A-513-S5, 97-A-514-S5

Pollutant: Volatile Organic Compouds (VOC)
Emission Limit(s): 0.58 lb/hr
Authority for Requirement: DNR Construction Permits 97-A-512-S5, 97-A-513-S5, 97-A-514-S5

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 3.0 lb/hr
Authority for Requirement: DNR Construction Permits 97-A-512-S5, 97-A-513-S5, 97-A-514-S5

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

Operating Limits:
Operating limits for this emission unit shall be:

1. Each boiler shall burn only natural gas.

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

1. At the end of each calendar month, record the quantity of fuel used in each unit over the previous month. As an alternative to meeting this requirement [40 CFR 60.48c(g)(2)] the facility may elect to record and maintain records of the total amount of each steam generating unit fuel delivered to that property each calendar month [40 CFR 60.48c(g)(3)].

Authority for Requirement: DNR Construction Permits 97-A-512-S5, 97-A-513-S5, 97-A-514-S5

NSPS and NESHAP Applicability:

These units are subject to the New Source Performance Standard (NSPS) Industrial-Commercial-Institutional Steam Generating Units (40 CFR 60 Subpart Dc; 567 IAC 23.1(2)"lll").

Authority for Requirement: DNR Construction Permits 97-A-512-S5, 97-A-513-S5, 97-A-514-S5
40 CFR 60 Subpart Dc
567 IAC 23.1(2)"lll"

These emission points are subject to 40 CFR 63 Subpart DDDDD – National Emission Standards for Industrial, Commercial and Institutional Boilers and Process Heaters

Authority for Requirement: 40 CFR 63 Subpart DDDDD

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

Stack Height, (ft, from the ground): 52
Stack Opening, (inches, dia.): 24
Exhaust Flow Rate (scfm): 7,300
Exhaust Temperature (°F): 300
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permits 97-A-512-S5, 97-A-513-S5, 97-A-514-S5

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: A1-01 and A1-02

Associated Equipment

Emission Unit vented through this Emission Point: A1-01 and A1-02
Emission Unit Description: Boilers
Raw Material/Fuel: natural gas
Rated Capacity: 6.28 MMBtu/hr each

Applicable Requirements

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

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

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.6 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"

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

NSPS and NESHAP Applicability:
These emission points are subject to 40 CFR 63 Subpart DDDDD – National Emission Standards for Industrial, Commercial and Institutional Boilers and Process Heaters

Authority for Requirement: 40 CFR 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 22.108(3)

Emission Point ID Number: 1020-28

Associated Equipment
Emissions Control Equipment ID Number: CE 1020-28
Emissions Control Equipment Description: Filters

Emission Unit vented through this Emission Point: 1020-28
Emission Unit Description: Robotic Welders A and B
Raw Material/Fuel: welding wire
Rated Capacity: 13.0 lb/hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 5%, 40%
Authority for Requirement: BACT
567 IAC 23.3(2)"d"
DNR Construction Permit 13-A-196-P3

(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 2.5 ($PM_{2.5}$)
Emission Limit(s): 6.77×10^{-4} lb/lb of wire, 0.0088 lb/hr
Authority for Requirement: BACT
DNR Construction Permit 13-A-196-P3

Pollutant: Particulate Matter 10 (PM_{10})
Emission Limit(s): 6.77×10^{-4} lb/lb of wire, 0.0088 lb/hr
Authority for Requirement: BACT
DNR Construction Permit 13-A-196-P3

Pollutant: Particulate Matter (PM) - State
Emission Limit(s): 6.77×10^{-4} lb/lb of wire, 0.1 gr/dscf
Authority for Requirement: BACT
567 IAC 23.3(2)"a"
DNR Construction Permit 13-A-196-P3

Operational Limits & Requirements

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

Operating Limits:

Operating limits for this emission unit shall be:

1. The owner or operator shall operate, inspect and maintain the control equipment according to the manufacturer's specifications.
2. The maximum amount of welding wire processed shall not exceed 13 pounds per hour, based on the average monthly consumption.

Reporting and Recordkeeping Requirements:

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

1. The owner or operator shall maintain a record of all inspections, maintenance activities, and any actions resulting from response to the alarm system or to inspection/maintenance of the control equipment and the monitoring devices.
2. The facility shall record, each month, the total amount of welding wire consumed (pounds), the total number of hours the robot welders are operated, and calculate the average hourly production rate for that month (pounds/hour).

Authority for Requirement: DNR Construction Permit 13-A-196-P3

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): NA
Stack Opening, (inches, dia.): NA
Exhaust Flow Rate (scfm): 2400
Exhaust Temperature (°F): 70
Discharge Style: Inside
Authority for Requirement: DNR Construction Permit 13-A-196-P3

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

Monitoring Requirements

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

Stack Testing:

Pollutant – PM-State, PM_{10}[(1)], $PM_{2.5}$[(1)], Opacity

Frequency –

Stack testing shall be required after the emission units have operated at an average production capacity of 10.5 pounds of welding wire per hour (i.e., qualifying event), as determined on a calendar month basis by dividing the total amount of wire consumed that month by the total number of hours the welders were in operation for said month. The required stack testing shall be conducted between the months of May through September of that calendar year or the following calendar year should the qualifying event occur during the months of August through December.

Authority for Requirement - DNR Construction Permit 13-A-196-P3

(1) The facility is allowed to test for only PM, using those results to demonstrate compliance with PM_{10} and $PM_{2.5}$ emission rate limits.

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: H1-TD

Associated Equipment

Emissions Control Equipment ID Number: CE H1-TD
Emissions Control Equipment Description: Wet Scrubber

Emission Unit vented through this Emission Point: H1-TD
Emission Unit Description: Thermal Deburring
Raw Material/Fuel: metal parts, natural gas
Max. Startup Capacity: 0.25 MMBtu/hr
Max. Production Capacity: 35 ft^3/hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 0%, 40%[(1)]
Authority for Requirement: BACT
567 IAC 23.3(2)"d"
DNR Construction Permit 13-A-197-P2

[(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 2.5 ($PM_{2.5}$)
Emission Limit(s): 0.004 gr/dscf, 0.021 lb/hr
Authority for Requirement: BACT
DNR Construction Permit 13-A-197-P2

Pollutant: Particulate Matter 10 (PM_{10})
Emission Limit(s): 0.004 gr/dscf, 0.034 lb/hr
Authority for Requirement: BACT
DNR Construction Permit 13-A-197-P2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.004 gr/dscf, 0.05 gr/dscf
Authority for Requirement: BACT
567 IAC 23.4(6)
DNR Construction Permit 13-A-197-P2

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit(s): 0.02 lb/hr
Authority for Requirement: DNR Construction Permit 13-A-197-P2

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 0.0055 lb/MMBtu, 0.006 ton/yr
Authority for Requirement: BACT
DNR Construction Permit 13-A-197-P2

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 0.08 lb/MMBtu, 0.09 ton/yr, 0.02 lb/hr
Authority for Requirement: BACT
DNR Construction Permit 13-A-197-P2

Operational Limits & Requirements

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

Operating Limits:

Operating limits for this emission unit shall be:

1. The owner or operator will inspect and maintain the control equipment according to manufacturer's recommendations.

Reporting and Recordkeeping Requirements:

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

1. The facility shall maintain records of all control equipment inspections and maintenance.

Authority for Requirement: DNR Construction Permit 13-A-197-P2

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

Stack Height, (ft, from the ground): 25
Stack Opening, (inches, dia.): 12
Exhaust Flow Rate (scfm): 2,500 (startup), 900 (production)
Exhaust Temperature (°F): 70
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 13-A-197-P2

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 1020-15

Associated Equipment

Emission Unit vented through this Emission Point: 1020-15
Emission Unit Description: Solvents Parts Washer
Raw Material/Fuel: solvent
Rated Capacity: 4,000 gal/yr

Applicable Requirements

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

Operating Limits:

1. The total amount of material (solvent) used in this emission unit (EP 1020-15) shall not exceed 4,000 gallons in any rolling 12-month period.
2. The maximum VOC content of any material (solvent) used in this emission unit (EP 1020-15) shall not exceed 8.0 pounds per gallon.

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

1. The permittee shall maintain records on the identification and the VOC content of each solvent used in this emissions unit.

2. The permittee shall maintain the following monthly records:
   a. The amount of material (solvent) used in emission unit (EP 1020-15) (in gallons); and,
   b. The rolling 12-month total of the amount of material (solvent) used in emission unit (EP 1020-15) (in gallons).

Authority for Requirement: DNR Construction Permit 00-A-001-S1

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

Stack Height, (ft, from the ground): 42
Stack Opening, (inches, dia.): 12
Exhaust Flow Rate (scfm): 1,900
Exhaust Temperature (°F): 70
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 00-A-001-S1

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: P5-15

Associated Equipment

Emission Unit vented through this Emission Point: K2-04
Emission Unit Description: Plasma Cutting Booth
Raw Material/Fuel: steel
Rated Capacity: 30 inches of steel per minute

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 40%[(1)]
Authority for Requirement: 567 IAC 23.3(2)"d"
DNR Construction Permit 02-A-588-S3

[(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 10 (PM_{10})
Emission Limit(s): 4.55 lb/hr
Authority for Requirement: DNR Construction Permit 02-A-588-S3

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.05 gr/dscf
Authority for Requirement: 567 IAC 23.4(6)
DNR Construction Permit 02-A-588-S3

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

Operating Limits:
Operating limits for this emission unit shall be:

A. The Plasma Cutter, EU K2-04, shall not operate more than 500 hour per rolling 12-month period.

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

1. The owner or operator shall record monthly the number of hours the Plasma Cutter, EU K2-04 operated. Calculate and record 12-month rolling total.
2. The owner or operator shall maintain a copy of the Material Safety Data Sheet (MSDS) for each material cut in the Plasma Cutter, EU K2-04.

Authority for Requirement: DNR Construction Permit 02-A-588-S3

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

Stack Height, (ft, from the ground): 33.1
Stack Opening, (inches, dia.): 42
Exhaust Flow Rate (scfm): 28,000
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 02-A-588-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 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 – PM_{10}[(1)]
Frequency – One Time[(1)]
Test Method – 40 CFR 51, Appendix M, 201A with 202
Authority for Requirement – DNR Construction Permit 02-A-588-S3

[(1)] The initial performance test required in DNR Construction Permit Project 02-410 was waived due to the limited hour of operation established in Project 03-090 and then lowered in Project 10-137. Should the permitted hours of operation increase above 500 hours per rolling 12-month period, a stack test will be required to demonstrate compliance.

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

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

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒
Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: Z2-02

Associated Equipment

Emission Unit vented through this Emission Point: Z2-02
Emission Unit Description: Acid Etch Station 2
Raw Material/Fuel: acid
Rated Capacity: 2,000 gal/yr

Applicable Requirements

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

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 6.78 tpy
Authority for Requirement: BACT
DNR Construction Permit 12-A-507-P1

Pollutant: Hydrogen Chloride (HCl)
Emission Limit(s): 0.42 ton/yr
Authority for Requirement: DNR Construction Permit 12-A-507-P1

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

Operating Limits:

1. The maximum VOC content of the material used in the nitric acid etch station shall be 6.74 lb/gal.
2. The maximum hydrogen chloride (HCl) content of the material used in the nitric acid etch station shall be 0.42 lb/gal.
3. The owner or operator shall use a maximum of 2,000 gallons of VOC-containing material in the nitric acid etch station per twelve month rolling period.
4. The owner or operator shall ensure that the lids are on the nitric acid etch tanks at all times except when in active operation.
5. Retain Material Safety Data Sheets (MSDS) for all VOC containing materials used in the nitric acid etch station.

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

1. The owner or operator shall record on a monthly basis the amount of VOC-containing materials used in the nitric acid etch station, in gallons. The owner or operator may take credit for any waste ethanol removed from the process as a waste and properly disposed. The owner or operator shall record the amount removed whenever the waste is removed from the station. The first 5 times the material is removed from the process, the waste shall be sampled for ethanol content, and then 97% of the average percent ethanol of those 5 samples shall be used to calculate the credit for the waste. The same procedure shall be followed should the owner or operator change the material makeup specification. This ethanol VOC credit may be subtracted from the VOC rolling total as of the date the waste is properly disposed.
2. The owner or operator shall update the twelve month rolling total amount of VOC and HCl-containing materials used in the nitric acid etch station, in gallons, monthly.

Authority for Requirement: DNR Construction Permit 12-A-507-P1

Emission Point Characteristics
The emission point shall conform to the specifications listed below.
Stack Height, (ft, from the ground): 36
Stack Opening, (inches, dia.): 10
Exhaust Flow Rate (scfm): 1,400
Exhaust Temperature (°F): Ambient
Discharge Style: Obstructed Vertical
Authority for Requirement: DNR Construction Permit 12-A-507-P1

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: PSD Washers

Associated Equipment
Aqueous Washers:

Emission Unit	Maximum Capacity
PSD Washer 1	275 gallons
PSD Washer 3	350 gallons
PSD Washer 4	350 gallons
PSD Washer 5	500 gallons
PSD Washer 6	500 gallons
PSD Washer 7	275 gallons
PSD Washer 9	275 gallons
PSD Washer 10	330 gallons
PSD Washer 11	200 gallons
PSD Washer 12	180 gallons
PSD Washer 13	100 gallons
PSD Washer 14	200 gallons
PSD Washer 15	660 gallons
PSD Washer 16	275 gallons
PSD Washer 17	330 gallons
PSD Washer 18	660 gallons
PSD Washer 20	660 gallons

Applicable Requirements

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

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 0.42 ton/yr
Authority for Requirement: BACT
DNR Construction Permit 13-A-193-P1

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

Operating Limits:
Operating limits for this emission unit shall be:

1. The maximum VOC content of the material used shall be 2% as applied in each parts washer.

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

1. Retain Material Safety Data Sheets (MSDS) for all VOC containing materials used in each parts washer.
2. The facility shall keep records of the designed ratio of detergent to water for each parts washer.

Authority for Requirement: DNR Construction Permit 13-A-193-P1

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

Stack Height, (ft, from the ground): NA
Stack Opening, (inches, dia.): NA
Exhaust Flow Rate (scfm): NA
Exhaust Temperature (°F): Ambient
Discharge Style: Inside
Authority for Requirement: DNR Construction Permit 13-A-193-P1

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: WWTP Fugitive

Associated Equipment
Emission Unit vented through this Emission Point: EU WWTP
Emission Unit Description: Fugitive losses from wastewater treatment plant
Raw Material/Fuel: wastewater
Rated Capacity: NA- fugitive

Applicable Requirements

NESHAP Requirements:

This emission unit is subject to 40 CFR 63 Subpart DD: National Emission Standards for Hazardous Air Pollutants from Off-Site Waste and Recovery Operations. The facility meets the requirements for "facility-wide exemption" as stated in §63.680(d). The requirements that must be met are as follows:

(1) The owner or operator must prepare an initial determination of the total annual HAP quantity in the off-site material received at the plant site. This determination is based on the total quantity of the HAP listed in Table 1 of subpart DD as determined at the point-of-delivery for each off-site material stream.
(2) The owner or operator must prepare a new determination whenever the extent of changes to the quantity or composition of the off-site material received at the plant site could cause the total annual HAP quantity in the off-site material received at the plant site to exceed the limit of 1 megagram per year.
(3) The owner or operator must maintain documentation to support the owner's or operator's determination of the total annual HAP quantity in the off-site material received at the plant site. This documentation must include the basis and data used for determining the HAP content of the off-site material.

Authority for Requirement: 567 IAC 23.1(4)"ad"
40 CFR 63.680(d)(1) through (d)(3)

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: See Engine Table 1

Associated Equipment
Engine Table 1

Emission Point Number	Emission Unit Number	Emission Unit Description	Raw Material	Rated Capacity	Installation Date
P5-21	P5-21	Emergency Generator	Diesel Fuel	16 bhp	1981

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

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

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

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

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

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

1. Change oil and filter every 500 hours of operation or annually, whichever comes first. (See 63.6625(i) for the oil analysis option to extend time frame of requirements.)
2. Inspect air cleaner every 1000 hours of operation or annually, whichever comes first, and replace as necessary.
3. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

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

Operating Limits 40 CFR 63.6640(f)

1. Any operation other than emergency operation, maintenance and testing and operation in non-emergency situations (*up to*) 50 hours per year is prohibited.
2. There is no time limit on the use of emergency stationary RICE in emergency situations.
3. You may operate your emergency stationary RICE up to 100 combined hours per calendar year for maintenance checks and readiness testing. See 40 CFR 63.6640(f)(2) for additional information and restrictions.
4. You may operate your emergency stationary RICE up to 50 hours per calendar year for non-emergency situations, but those 50 hours are counted toward the 100 hours of maintenance and testing. 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.)

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: H3-36

Associated Equipment

Emission Unit vented through this Emission Point: H3-36
Emission Unit Description: Emergency Generator
Raw Material/Fuel: diesel fuel
Rated Capacity: 48 bhp
Manufacture Date: 15 February 2008

Applicable Requirements

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

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

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf, 0.22 grams/HP-hr
Authority for Requirement: 567 IAC 23.3(2)"a"
567 IAC 23.1(2)"yyy"
40 CFR Part 60 Subpart IIII

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

Pollutant: NMHC + NO_x
Emission Limit(s): 5.6 grams/HP-hr
Authority for Requirement: 567 IAC 23.1(2)"yyy"
40 CFR Part 60 Subpart IIII

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 4.1 grams/HP-hr
Authority for Requirement: 567 IAC 23.1(2)"yyy"
40 CFR Part 60 Subpart IIII

Operational Limits & Requirements

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

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 80.510(b).

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

Reporting & Record keeping:

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

Operating and Recordkeeping Requirements

1. If your emergency engine does not meet the standards applicable to non-emergency engines, you must install a non-resettable hour meter prior to startup of the engine (40 CFR 60.4209(a)) and, starting with the model years in the following table, you must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The owner must record the time of operation of the engine and the reason the engine was in operation during that time. 40 CFR 60.4214(b).

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

2. There is no time limit on use for emergency situations. 40 CFR 60.4211(f)(1).
3. The engine may be operated for the purpose of maintenance checks and readiness testing, emergency demand response, and deviation of voltage or frequency for a maximum of 100 hours/year. See 40 CFR 60.4211(f)(2) for more information.
4. The engine may be operated for up to 50 hours per year for non-emergency purposes. This operating time cannot be used for peak shaving or non-emergency demand response or to generate income for the facility (e.g. supplying power to the grid) and should be included in the total of 100 hours allowed for maintenance checks and readiness testing. See 40 CFR 60.4211(f)(3) for more information.
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: 567 IAC 23.1(2)"yyy"
40 CFR 60 Subpart IIII

NSPS and 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"

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: P5-3299056

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Model Year	Construction Permit
P5-3299056	Emergency Generator	None	Natural Gas	105 bhp	2018	N/A

Applicable Requirements

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

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

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

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

Pollutant: Hydrocarbons (HC) + Nitrogen Oxides (NO_x)
Emission Limit(s): 10 g/hp-hr
Authority for Requirement: 40 CFR Part 60 Subpart JJJJ
567 IAC 23.1(2)"zzz"

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 387 g/hp-hr
Authority for Requirement: 40 CFR Part 60 Subpart JJJJ
567 IAC 23.1(2)"zzz"

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.

Compliance Demonstrations:

1. You must demonstrate compliance with the applicable emission standards according to one of following methods (40 CFR 60.4243(b)):
    a) Purchasing a certified engine that complies with the emission standards, or
    b) 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 60.4243(b) for additional information.

Maximum Engine Power	Initial Test	Subsequent Test
25 < HP ≤ 500	Required	Not required
500 < HP	Required	Every 8,760 hours or 3 years, whichever comes first

2. 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).
3. 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).
4. 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).
5. 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).
6. 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 60.4243(d))

1. 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 and keep the following records. 40 CFR 60.4237 and 40 CFR 60.4245(b).

Maximum Engine Power	Engine Was Built On Or After	Recordkeeping Requirement
HP < 130	7/1/2008	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.
130 ≤ HP < 500	1/1/2011	
500 ≤ HP	7/1/2010	

2. There is no time limit on the use of the emergency engine in emergency situations.
3. The engine may be operated for the purpose of maintenance checks and readiness testing for a maximum of 100 hours/year.
4. 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.
5. 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.

Authority for Requirement: 40 CFR 60 Subpart JJJJ
567 IAC 23.1(2)"zzz"

NSPS and 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 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 emergency engine under subpart ZZZZ.

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: H4-08

Associated Equipment

Emission Unit vented through this Emission Point: H4-08
Emission Unit Description: DTO Stop Off Drying Area
Raw Material/Fuel: natural gas
Rated Capacity: 0.5 MMBtu/hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 0%, 40%[(1)]
Authority for Requirement: BACT
567 IAC 23.3(2)"d"
DNR Construction Permit 13-A-198-P

[(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 2.5 ($PM_{2.5}$)
Emission Limit(s): 0.0074 lb/MMBtu, 0.0037 lb/hr
Authority for Requirement: BACT
DNR Construction Permit 13-A-198-P

Pollutant: Particulate Matter 10 (PM_{10})
Emission Limit(s): 0.0074 lb/MMbtu, 0.0037 lb/hr
Authority for Requirement: BACT
DNR Construction Permit 13-A-198-P

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.0074 lb/MMBtu, 0.1 gr/dscf
Authority for Requirement: BACT
567 IAC 23.3(2)"a"
DNR Construction Permit 13-A-198-P

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit(s): 0.05 lb/hr
Authority for Requirement: BACT
DNR Construction Permit 13-A-198-P

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 0.0055 lb/MMBtu[(2)], 0.01 ton/yr[(2)]
Authority for Requirement: BACT
DNR Construction Permit 13-A-198-P

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 0.08 lb/MMBtu, 0.18 ton/yr
Authority for Requirement: BACT
DNR Construction Permit 13-A-198-P

[(2)] Limit is for VOC emissions from natural gas combustion only. For the purposes of this permit, it is assumed that all VOC emissions from the DTO Stop Off spray operations are emitted at EP H4-09.

Operational Limits & Requirements

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

Reporting and Recordkeeping Requirements:

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

A. For operating condition monitoring purposes, it will be assumed that all VOC and HAP emissions due to spraying operations occur at the DTO Stop Off Spray Booth, EP H4-09.

Authority for Requirement: DNR Construction Permit 13-A-198-P

NSPS and NESHAP Applicability:

This unit is subject to the NESHAP, Subpart MMMM, *National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products*. For the purposes of this permit, it is assumed that all HAPs are emitted at the spray booth, EP H4-09.

Authority for Requirement: 567 IAC 23.1(3)"cm"
40 CFR 63 Subpart MMMM
DNR Construction Permit 13-A-198-P

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

Stack Height, (ft, from the ground): 48
Stack Opening, (inches, dia.): 12
Exhaust Flow Rate (scfm): 1,300
Exhaust Temperature (°F): 250
Discharge Style: Vertical unobstructed
Authority for Requirement: DNR Construction Permit 13-A-198-P

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: H4-09

Associated Equipment

Emission Unit vented through this Emission Point: H4-09
Emission Unit Description: DTO Stop Off Spray Booth
Control Equipment: CE H4-09
Control Equipment Description: Filters
Raw Material/Fuel: coating
Rated Capacity: 5.63 gal/hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 0%, 40%[(1)]
Authority for Requirement: BACT
567 IAC 23.3(2)"d"
DNR Construction Permit 13-A-199-P

[(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 2.5 ($PM_{2.5}$)
Emission Limit(s): 0.0008 gr/dscf[(2)], 0.035 lb/hr
Authority for Requirement: BACT
DNR Construction Permit 13-A-199-P

Pollutant: Particulate Matter 10 (PM_{10})
Emission Limit(s): 0.0015 gr/dscf[(2)], 0.07 lb/hr
Authority for Requirement: BACT
DNR Construction Permit 13-A-199-P

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.0015 gr/dscf[(2)], 0.01 gr/dscf
Authority for Requirement: BACT
567 IAC 23.4(13)
DNR Construction Permit 13-A-199-P

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 10.19 ton/yr[(2)]
Authority for Requirement: BACT
DNR Construction Permit 13-A-199-P

Pollutant: Total HAP
Emission Limit(s): 27.5 lb organic HAP/gal coating solids
Authority for Requirement: 567 IAC 23.1(4)"cm"
40 CFR 63 Subpart MMMM
DNR Construction Permit 13-A-199-P

(2) Standard applies during startup, shutdown and malfunction

Operational Limits & Requirements

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

Operating Limits:

1. The owner or operator will inspect and maintain the control equipment according to manufacturer's recommendations.
2. Material usage at this unit shall be limited to a maximum of 49,318 gallons per twelve month rolling period.
3. The maximum VOC content of material used at this unit shall be 0.41 lbs/gallon.
4. The owner or operator shall follow the applicable requirements of Subpart MMMM, 40 CFR 63.3880 through 63.3981.

Reporting and Recordkeeping Requirements:

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

1. The facility shall maintain records of all control equipment inspections and maintenance.
2. The facility shall maintain Material Safety Data Sheets (MSDS) of all materials used in this booth, which show the VOC content of the material in lbs/gal.
3. The facility shall record the amount of material used each month, in gallons.
4. The facility shall update the rolling twelve month total material usage on a monthly basis.
5. The facility shall make notifications and reports as required in 40 CFR 63.3910 through 63.3920, and keep records as required in 40 CFR 63.3930 through 63.3931.

Authority for Requirement: 567 IAC 23.1(4)"cm"
40 CFR 63 Subpart MMMM
DNR Construction Permit 13-A-199-P

NSPS and NESHAP Applicability:

This unit is subject to the NESHAP, Subpart MMMM, *National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products*. For the purposes of this permit, it is assumed that all HAPs are emitted at the spray booth, EP H4-09.

Authority for Requirement: 567 IAC 23.1(4)"cm"
40 CFR 63 Subpart MMMM
DNR Construction Permit 13-A-199-P

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

Stack Height, (ft, from the ground): 48
Stack Opening, (inches, dia.): 24
Exhaust Flow Rate (scfm): 5,400
Exhaust Temperature (°F): 70
Discharge Style: Vertical unobstructed
Authority for Requirement: DNR Construction Permit 13-A-199-P

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: Fugitive- ACS 1&2

Associated Equipment

Emission Unit vented through this Emission Point: ACS 1&2
Emission Unit Description: Autophoretic Coating System I (S) & II (N)
Raw Material/Fuel: dip coating
Rated Capacity: NA- Fugitive

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.

NESHAP Requirements:
This emission unit may be subject to 40 CFR 63 Subpart MMMM – Surface Coating of Miscellaneous Metal Parts and Products – National Emissions Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products, if you operate a reconstructed, or existing affected source that uses 250 gallons per year, or more, of coatings that contain hazardous air pollutants. According to 63.3910, an initial notification must be submitted for this existing unit no later than January 2, 2005. For an existing affected source, the compliance date is January 2, 2007.

Emission Limits
According to § 63.3890, an existing affected source, must limit organic HAP emissions to the atmosphere from the affected source to the applicable limit specified in paragraphs (b)(1) through (5) of this section, except as specified in paragraph (c) of this section, determined according to the requirements in § 63.3940, 63.3950, and 63.3960.

Options for Meeting Emission Limits
According to § 63.3891, to determine whether the organic HAP emission rate is equal to or less than the applicable emission limit in § 63.3890, the facility must use at least one of the following three compliance options.

(a) Compliant material option
(b) Emission rate without add-on controls option
(c) Emission rate with add-on controls option

Operating Limits and Work Practice Standards
According to § 63.3892 and § 63.3893, for any coating operation(s) on which you use the compliant material option or the emission rate without add-on controls option, you are not required to meet any operating limits or work practice standards. If you choose the emission rate with add-on controls option please see parts § 63.3892 and § 63.3893 for a full description of the applicable requirements.

Semiannual Compliance Reports-
You must submit semiannual compliance reports for each affected source according to the requirements of paragraphs (a)(1) through (7) of section § 63.3920.

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: Adhesive Fugitive

Associated Equipment
Emission Unit vented through this Emission Point: Adhesive Fugitive MMMM
Emission Unit Description: Facility Adhesives Subject to MMMM
Raw Material/Fuel: adhesive
Rated Capacity: NA- fugitive

Applicable Requirements

NESHAP Requirements:
This emission unit may be subject to 40 CFR 63 Subpart MMMM – Surface Coating of Miscellaneous Metal Parts and Products – National Emissions Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products, if you operate a reconstructed, or existing affected source that uses 250 gallons per year, or more, of coatings that contain hazardous air pollutants. According to 63.3910, an initial notification must be submitted for this existing unit no later than January 2, 2005. For an existing affected source, the compliance date is January 2, 2007.

Emission Limits
According to § 63.3890, an existing affected source, must limit organic HAP emissions to the atmosphere from the affected source to the applicable limit specified in paragraphs (b)(1) through (5) of this section, except as specified in paragraph (c) of this section, determined according to the requirements in § 63.3940, 63.3950, and 63.3960.

Options for Meeting Emission Limits
According to § 63.3891, to determine whether the organic HAP emission rate is equal to or less than the applicable emission limit in § 63.3890, the facility must use at least one of the following three compliance options.

1. Compliant material option
2. Emission rate without add-on controls option
3. Emission rate with add-on controls option

Operating Limits and Work Practice Standards
According to § 63.3892 and § 63.3893, for any coating operation(s) on which you use the compliant material option or the emission rate without add-on controls option, you are not required to meet any operating limits or work practice standards. If you choose the emission rate with add-on controls option please see parts § 63.3892 and § 63.3893 for a full description of the applicable requirements.

Semiannual Compliance Reports-
You must submit semiannual compliance reports for each affected source according to the requirements of paragraphs (a)(1) through (7) of section § 63.3920.

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: H4-2A and H4-2B

Associated Equipment

Emission Point Number	Emission Unit Number	Emission Unit Description	Raw Material	Rated Capacity	DNR Construction Permit
H4-2A	H4-0A-HT	Carburizing Furnace 0A	Natural Gas	1.2 MMBtu/hr natural gas	12-A-505-P2
	H4-1A-HT	Carburizing Furnace 1A		1.2 MMBtu/hr natural gas	
	H4-2A-HT	Carburizing Furnace 2A		1.2 MMBtu/hr natural gas	
	H4-3A-HT	Carburizing Furnace 3A		1.2 MMBtu/hr natural gas	
	H4-4A-HT	Carburizing Furnace 4A		1.2 MMBtu/hr natural gas	
	H4-5A-HT	Carburizing Furnace 5A		1.2 MMBtu/hr natural gas	
H4-2B	H4-0B-HT	Carburizing Furnace 0B	Natural Gas	1.2 MMBtu/hr natural gas	12-A-506-P2
	H4-1B-HT	Carburizing Furnace 1B		1.2 MMBtu/hr natural gas	
	H4-2B-HT	Carburizing Furnace 2B		1.2 MMBtu/hr natural gas	
	H4-3B-HT	Carburizing Furnace 3B		1.2 MMBtu/hr natural gas	
	H4-4B-HT	Carburizing Furnace 4B		1.2 MMBtu/hr natural gas	
	H4-5B-HT	Carburizing Furnace 5B		1.2 MMBtu/hr natural gas	

Note: At the time of the permit issuance, construction has not started on the emission units H4-5A-HT and H4-0B-HT authorized in construction permits 12-A-505-P2 and 12-A-506-P2. The facility is in compliance with Condition 10A in construction permits 12-A-505-P1 and 12-A-506-P1. Construction must commence within 18 months after the construction permit issuance date and be completed within 36 months after the construction permit issuance date.

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), 0%(2)
Authority for Requirement: BACT
567 IAC 23.3(2)"d"
DNR Construction Permits 12-A-505-P2 and 12-A-506-P2

(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 2.5 ($PM_{2.5}$)
Emission Limit(s): 0.0074 lb/MMBtu(2,3)
Authority for Requirement: BACT
DNR Construction Permits 12-A-505-P2 and 12-A-506-P2

Pollutant: Particulate Matter 10 (PM_{10})
Emission Limit(s): 0.0074 lb/MMBtu(2,3)
Authority for Requirement: BACT
DNR Construction Permits 12-A-505-P2 and 12-A-506-P2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.0074 lb/MMBtu(2,3), 0.1 gr/dscf
Authority for Requirement: BACT
567 IAC 23.3(2)"a"
DNR Construction Permits 12-A-505-P2 and 12-A-506-P2

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit(s): 0.42 lb/hr(2)
Authority for Requirement: BACT
DNR Construction Permits 12-A-505-P2 and 12-A-506-P2

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 0.0055 lb/MMBtu(2,3), 0.036 ton/yr(2,3)
Authority for Requirement: BACT
DNR Construction Permits 12-A-505-P2 and 12-A-506-P2

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 0.08 lb/MMBtu(2,3), 0.43 ton/yr(2,3), 0.1 lb/hr(2)
Authority for Requirement: BACT
DNR Construction Permits 12-A-505-P2 and 12-A-506-P2

(2)Standard applies only to EU H4-0A-HT and EU H4-5B-HT
(3)Standard applies during startup, shutdown and malfunction

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 and maintain the equipment to ensure best combustion practices in the emission units.

B. The facility shall record the results of emission unit inspections and maintenance.

Authority for Requirement: DNR Construction Permits 12-A-505-P2 and 12-A-506-P2

NSPS and NESHAP Applicability:
These emission points are subject to 40 CFR 63 Subpart DDDDD – National Emission Standards for Industrial, Commercial and Institutional Boilers and Process Heaters

Authority for Requirement: 40 CFR 63 Subpart DDDDD
DNR Construction Permits 12-A-505-P2 and 12-A-506-P2

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

EP ID	Stack Height (feet)	Discharge Style	Stack Opening (inches)	Stack Temperature (°F)	Exhaust Flowrate (scfm)
H4-2A	48	Vertical unobstructed	25	300	16,000
H4-2B	48	Vertical unobstructed	25	300	16,000

Authority for Requirement: DNR Construction Permits 12-A-505-P2 and 12-A-506-P2

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: H4-1A and H4-1B

Associated Equipment

Emission Point Number	Emission Unit Number	Emission Unit Description	Raw Material	Rated Capacity	DNR Construction Permit
H4-1A	H4-0A-EQ	Endo Gas & Quench Section Furnace 0A	Endo. Gas & Quench	0.6 MMBtu/hr natural gas, 0.6 gal/hr oil	13-A-194-P2
	H4-1A-EQ	Endo Gas & Quench Section Furnace 1A		0.6 MMBtu/hr natural gas, 0.6 gal/hr oil	
	H4-2A-EQ	Endo Gas & Quench Section Furnace 2A		0.6 MMBtu/hr natural gas, 0.6 gal/hr oil	
	H4-3A-EQ	Endo Gas & Quench Section Furnace 3A		0.6 MMBtu/hr natural gas, 0.6 gal/hr oil	
	H4-4A-EQ	Endo Gas & Quench Section Furnace 4A		0.6 MMBtu/hr natural gas, 0.6 gal/hr oil	
	H4-5A-EQ	Endo Gas & Quench Section Furnace 5A		0.6 MMBtu/hr natural gas, 0.6 gal/hr oil	
H4-1B	H4-0B-EQ	Endo Gas & Quench Section Furnace 0B	Endo. Gas & Quench	0.6 MMBtu/hr natural gas, 0.6 gal/hr oil	13-A-195-P2
	H4-1B-EQ	Endo Gas & Quench Section Furnace 1B		0.6 MMBtu/hr natural gas, 0.6 gal/hr oil	
	H4-2B-EQ	Endo Gas & Quench Section Furnace 2B		0.6 MMBtu/hr natural gas, 0.6 gal/hr oil	
	H4-3B-EQ	Endo Gas & Quench Section Furnace 3B		0.6 MMBtu/hr natural gas, 0.6 gal/hr oil	
	H4-4B-EQ	Endo Gas & Quench Section Furnace 4B		0.6 MMBtu/hr natural gas, 0.6 gal/hr oil	
	H4-5B-EQ	Endo Gas & Quench Section Furnace 5B		0.6 MMBtu/hr natural gas, 0.6 gal/hr oil	

Note: At the time of the permit issuance, construction has not started on the emission units H4-5A-EQ and H4-0B-EQ authorized in construction permits 13-A-194-P2 and 13-A-195-P2. The facility is in compliance with Condition 10A in construction permits 13-A-194-P1 and 13-A-195-P1. Construction must commence within 18 months after the construction permit issuance date and be completed within 36 months after the construction permit issuance date.

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)], 0%[(2)]
Authority for Requirement: BACT
567 IAC 23.3(2)"d"
DNR Construction Permits 13-A-194-P2 and 13-A-195-P2

[(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 2.5 ($PM_{2.5}$)
Emission Limit(s): 0.0069 lb/hr[(2),(3)]
Authority for Requirement: BACT
DNR Construction Permits 13-A-194-P2 and 13-A-195-P2

Pollutant: Particulate Matter 10 (PM_{10})
Emission Limit(s): 0.0069 lb/hr[(2),(3)]
Authority for Requirement: BACT
DNR Construction Permits 13-A-194-P2 and 13-A-195-P2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.0069 lb/hr[(2),(3)], 0.1 gr/dscf
Authority for Requirement: BACT
567 IAC 23.3(2)"a"
DNR Construction Permits 13-A-194-P2 and 13-A-195-P2

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit(s): 0.09 lb/hr[(2)]
Authority for Requirement: BACT
DNR Construction Permits 13-A-194-P2 and 13-A-195-P2

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 0.005 lb/hr[(2)], 0.02 ton/yr[(2),(3)]
Authority for Requirement: BACT
DNR Construction Permits 13-A-194-P2 and 13-A-195-P2

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 0.95 lb/hr[(2)], 4.16 ton/yr[(2,3)], 1.5 lb/hr[(2)]
Authority for Requirement: BACT
DNR Construction Permit 13-A-194-P1 and 13-A-195-P2

[(2)] Standard applies only to EU H4-0A-EQ and EU H4-5B-EQ
[(3)]Standard applies during startup, shutdown and malfunction

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 and maintain the equipment to ensure best combustion practices in the emission units.
B. The facility shall record the results of emission unit inspections and maintenance.

Authority for Requirement: DNR Construction Permits 13-A-194-P2 and 13-A-195-P2

Emission Point Characteristics

The emission points shall conform to the specifications listed below.

EP ID	Stack Height (feet)	Discharge Style	Stack Opening (inches)	Stack Temperature (°F)	Exhaust Flowrate (scfm)
H4-1A	48	Vertical unobstructed	33	160 to 1000	1,800 to 3,800 (per furnace) 15,000 to 25,000 (combined stack)
H4-1B	48	Vertical unobstructed	33	160 to 1000	1,800 to 3,800 (per furnace) 15,000 to 25,000 (combined stack)

Authority for Requirement: DNR Construction Permits 13-A-194-P2 and 13-A-195-P2

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: See Process Heaters Table

Process Heaters Table

Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Raw Material	Rated Capacity
H3-BF-1	H3-6192	RTQ Carburizing Furnace	Natural Gas	1.19 MMBtu/hr
	H3-6041 H3-6073	TQF Carburizing Furnace	Natural Gas	1.56 MMBtu/hr each
H3-BF-2	H3-6084 H3-6090 H3-6097 H3-6098	TQF Carburizing Furnaces	Natural Gas	1.56 MMBtu/hr each
H3-BF-3	H3-6104 H3-6105 H3-6106 H3-6107	TQF Carburizing Furnaces	Natural Gas	1.56 MMBtu/hr each
H3-HF-5	H3-6217	Rotary Hearth Furnace	Natural Gas	1.19 MMBtu/hr
H3-33	H3-5673	Rx Gas Generator	Natural Gas	1.80 MMBtu/hr
H3-34	H3-5674	Rx Gas Generator	Natural Gas	1.80 MMBtu/hr
H3-35	H3-5675	Rx Gas Generator	Natural Gas	1.80 MMBtu/hr
H3-37	H3-105003	Holcroft Rotary Furnace	Natural gas	3.50 MMBtu/hr
P5-01	P5-13	Normalizing Furnace	Natural gas	1.47 MMBtu/hr
P5-M182471	P5-M182471	Normalizing Furnace	Natural Gas	6.757 MMBtu/hr
1020-17	1020-17a	Radiant HT Furnace 8724	Natural gas	0.85 MMBtu/hr
	1020-17c	Endo Gas Furnace 5184		0.75 MMBtu/hr
H3-HF-1	H3-6041	Ipsen Furnaces 1-11 Entrance Door Exhausts	Natural Gas (Endothermic Gas)	0.001 MMBtu/hr
	H3-6073			
	H3-6084			
	H3-6090			
	H3-6097			
	H3-6098			
	H3-6104			
	H3-6105			
	H3-6106			
	H3-6107			
H3-HF-2	H3-6041		Natural Gas (Endothermic Gas)	0.002 MMBtu/hr
	H3-6073			

	H3-6084	Ipsen Furnaces 1-11 Exit Door Exhausts		
	H3-6090			
	H3-6097			
	H3-6098			
	H3-6104			
	H3-6105			
	H3-6106			
	H3-6107			

Applicable Requirements

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

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

Pollutant: Particulate Matter
Emission Limit(s): 0.6 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"

NSPS and NESHAP Applicability:
These emission points are subject to 40 CFR 63 Subpart DDDDD – National Emission Standards for Industrial, Commercial and Institutional Boilers and Process Heaters

Authority for Requirement: 40 CFR 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 22.108(3)

IV. General Conditions

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

G1. Duty to Comply

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

G2. Permit Expiration

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

G3. Certification Requirement for Title V Related Documents

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

G4. Annual Compliance Certification

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

G5. Semi-Annual Monitoring Report

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

G6. Annual Fee

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

G7. Inspection of Premises, Records, Equipment, Methods and Discharges
Upon presentation of proper credentials and any other documents as may be required by law, the permittee shall allow the director or the director's authorized representative to:
1. Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
4. Sample or monitor, at reasonable times, substances or parameters for the purpose of ensuring compliance with the permit or other applicable requirements. *567 IAC 22.108 (15)"b"*

G8. Duty to Provide Information
The permittee shall furnish to the director, within a reasonable time, any information that the director may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the director copies of records required to be kept by the permit, or for information claimed to be confidential, the permittee shall furnish such records directly to the administrator of EPA along with a claim of confidentiality. *567 IAC 22.108 (9)"e"*

G9. General Maintenance and Repair Duties
The owner or operator of any air emission source or control equipment shall:
1. Maintain and operate the equipment or control equipment at all times in a manner consistent with good practice for minimizing emissions.
2. Remedy any cause of excess emissions in an expeditious manner.
3. Minimize the amount and duration of any excess emission to the maximum extent possible during periods of such emissions. These measures may include but not be limited to the use of clean fuels, production cutbacks, or the use of alternate process units or, in the case of utilities, purchase of electrical power until repairs are completed.
4. Schedule, at a minimum, routine maintenance of equipment or control equipment during periods of process shutdowns to the maximum extent possible. *567 IAC 24.2(1)*

G10. Recordkeeping Requirements for Compliance Monitoring
1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:
    a. The date, place and time of sampling or measurements
    b. The date the analyses were performed.
    c. The company or entity that performed the analyses.
    d. The analytical techniques or methods used.
    e. The results of such analyses; and
    f. The operating conditions as existing at the time of sampling or measurement.
    g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)
2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.

3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:

a. Comply with all terms and conditions of this permit specific to each alternative scenario.

b. Maintain a log at the permitted facility of the scenario under which it is operating.

c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 22.108(4), 567 IAC 22.108(12)*

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

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

1. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred at a source:

a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 22;

b. Compliance test methods specified in 567 Chapter 25; or

c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.

2. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:

a. Any monitoring or testing methods provided in these rules; or

b. Other testing, monitoring, or information gathering methods that produce information comparable to that produced by any method in subrule 21.5(1) or this subrule. *567 IAC 21.5(1)-567 IAC 21.5(2)*

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

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

G13. Hazardous Release

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

G14. Excess Emissions and Excess Emissions Reporting Requirements

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

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

2. Excess Emissions Reporting

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

i. The identity of the equipment or source operation from which the excess emission originated and the associated stack or emission point.

ii. The estimated quantity of the excess emission.

iii. The time and expected duration of the excess emission.

iv. The cause of the excess emission.

v. The steps being taken to remedy the excess emission.

vi. The steps being taken to limit the excess emission in the interim period.

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

i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.

ii. The estimated quantity of the excess emission.

iii. The time and duration of the excess emission.

iv. The cause of the excess emission.

v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.
vi. The steps that were taken to limit the excess emission.
vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 24.1(1)-567 IAC 24.1(4)*

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

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

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

G15. Permit Deviation Reporting Requirements

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

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

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

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

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:

a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.

b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);

c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);

d. The changes are not subject to any requirement under Title IV of the Act (revisions affecting Title IV permitting are addressed in rules 567—22.140(455B) through 567 - 22.144(455B));.

e. The changes comply with all applicable requirements.

f. For each such change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:

i. A brief description of the change within the permitted facility,

ii. The date on which the change will occur,

iii. Any change in emission as a result of that change,

iv. The pollutants emitted subject to the emissions trade

v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.

vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and

vii. Any permit term or condition no longer applicable as a result of the change. *567 IAC 22.110(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 22.110(2)*

3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*

4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*

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

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

a. An administrative permit amendment is a permit revision that does any of the following:

i. Correct typographical errors

ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;

iii. Require more frequent monitoring or reporting by the permittee; or

iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.

b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.

c. Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.

2. Minor Title V Permit Modification.

a. Minor Title V permit modification procedures may be used only for those permit modifications that satisfy all of the following:

i. Do not violate any applicable requirement;

ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit;

iii. Do not require or change a case by case determination of an emission limitation or other standard, or an increment analysis;

iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act;

v. Are not modifications under any provision of Title I of the Act; and

vi. Are not required to be processed as significant modification under rule 567 - 22.113(455B).

b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:

i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;

ii. The permittee's suggested draft permit;
iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used; and
iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).

c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against the facility.

3. Significant Title V Permit Modification.

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

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

G19. Duty to Obtain Construction Permits

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

G20. Asbestos

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

G21. Open Burning

The permittee is prohibited from conducting open burning, except as provided in 567 IAC 23.2. *567 IAC 23.2 <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 22.108(7)*

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

1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:

    a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.

    b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.

    c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.

    d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.

2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:

    a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.

    b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.

    c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.

    d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)

    e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.

    f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.

3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.

4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle

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

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

G24. Permit Reopenings

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

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

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

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

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

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

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

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

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

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

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

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

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

G25. Permit Shield

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

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

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

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

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

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

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

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

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

G26. Severability

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

G27. Property Rights

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

G28. Transferability

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

G29. Disclaimer
No review has been undertaken on the engineering aspects of the equipment or control equipment other than the potential of that equipment for reducing air contaminant emissions.
567 IAC 22.3(3)"c"

G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification
The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with applicable requirements of 567 – Chapter 23 or a permit condition. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. If the owner or operator does not provide timely notice to the department, the department shall not consider the test results or performance evaluation results to be a valid demonstration of compliance with applicable rules or permit conditions. Upon written request, the department may allow a notification period of less than 30 days. At the department's request, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. A testing protocol shall be submitted to the department no later than 15 days before the owner or operator conducts the compliance demonstration. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.
Stack test notifications, reports and correspondence shall be sent to:

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

Within Polk and Linn Counties, stack test notifications, reports and correspondence shall also be directed to the supervisor of the respective county air pollution program.
567 IAC 25.1(7)"a", 567 IAC 25.1(9)

G31. Prevention of Air Pollution Emergency Episodes
The permittee shall comply with the provisions of 567 IAC Chapter 26 in the prevention of excessive build-up of air contaminants during air pollution episodes, thereby preventing the occurrence of an emergency due to the effects of these contaminants on the health of persons.
567 IAC 26.1(1)

G32. Contacts List

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

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

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

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

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

Field Office 1
1101 Commercial Court, Suite 10
Manchester, IA 52057
(563) 927-2640

Field Office 2
2300-15th St., SW
Mason City, IA 50401
(641) 424-4073

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

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

Field Office 5
Wallace State Office Building
502 E 9th St.
Des Moines, IA 50319-0034
(515) 725-0268

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

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

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

V. Appendices – NSPS and NESHAP Hyperlinks

A. 40 CFR 60 Subpart A

http://www.ecfr.gov/cgi-bin/text-idx?SID=4d7f77100ec64bdacf2aa49b6a7ef15c&mc=true&node=sp40.7.60.a&rgn=div6

B. 40 CFR 60 Subpart Dc

http://www.ecfr.gov/cgi-bin/text-idx?SID=4d7f77100ec64bdacf2aa49b6a7ef15c&mc=true&node=sp40.7.60.d_0c&rgn=div6

C. 40 CFR 60 Subpart JJJJ

https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-JJJJ

D. 40 CFR 60 Subpart IIII

http://www.ecfr.gov/cgi-bin/text-idx?SID=4d7f77100ec64bdacf2aa49b6a7ef15c&mc=true&node=sp40.7.60.iiii&rgn=div6

E. 40 CFR 63 Subpart A

http://www.ecfr.gov/cgi-bin/text-idx?SID=bf9a71666498f0f66a482bde9b4d122b&mc=true&node=sp40.10.63.a&rgn=div6

F. 40 CFR 63 Subpart DD

http://www.ecfr.gov/cgi-bin/text-idx?c=ecfr;rgn=div6;view=text;node=40%3A11.0.1.1.1.4;idno=40;sid=d32b1cc8671aec0365154113b9b47d1a;cc=ecfr

G. 40 CFR 63 Subpart MMMM

http://www.ecfr.gov/cgi-bin/text-idx?node=sp40.13.63.mmmm

H. 40 CFR 63 Subpart ZZZZ

http://www.ecfr.gov/cgi-bin/text-idx?c=ecfr;rgn=div6;view=text;node=40%3A14.0.1.1.1.1;idno=40;sid=e94dcfde4a04b27290c445a56e635e58;cc=ecfr

I. 40 CFR 63 Subpart DDDDD

http://www.ecfr.gov/cgi-bin/text-idx?c=ecfr;sid=547e5a5a43a490ef2545903ef0a2729b;rgn=div6;view=text;node=40%3A14.0.1.1.1.5;idno=40;cc=ecfr