Iowa Department of Natural Resources
Title V Operating Permit

Name of Permitted Facility: John Deere Des Moines Works
Facility Location: 825 SW Irvinedale Drive
Ankeny, Iowa 50023
Air Quality Operating Permit Number: 04-TV-017R2-M001
Expiration Date: August 17, 2025
Permit Renewal Application Deadline: February 17, 2025

EIQ Number: 92-6800
Facility File Number: 77-01-035

Responsible Official
Name: Rosalind Fox
Title: Factory Manager
Mailing Address: 825 SW Irvinedale Drive
Ankeny, Iowa 50023
Phone #: (515) 289-3001

Permit Contact Person for the Facility
Name: Scott Hemesath
Title: Lead Environmental Engineer
Mailing Address: 825 SW Irvinedale Drive
Ankeny, Iowa 50023
Phone #: (515) 289-3445

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

For the Director of the Department of Natural Resources

Marnie Stein 12/17/2024

Marnie Stein, Supervisor of Operating Permits Section Date

Table of Contents

Abbreviations

acfm.....actual cubic feet per minute
AQD……Polk County Public Works- Air Quality Division
CE .....Control Equipment
CEM.....Continuous Emission Monitor
CFR.....Code of Federal Regulation
DNR.....Iowa Department of Natural Resources
^{o}F.....degrees Fahrenheit
EIQ.....Emissions Inventory Questionnaire
EP……Emission Point
EU……...Emission Unit
gr./dscf .....grains per dry standard cubic foot
IAC.....Iowa Administrative Code
MSDS…….Material Safety Data Sheet(s)
MVAC.....Motor Vehicle Air Conditioner
NAICS……North American Industry Classification System
NESHAP…….National Emission Standards for Hazardous Air Pollutants
NSPS.....New Source Performance Standard
ppmv……..…parts per million by volume
lb./hr.....pounds per hour
lb./MMBtu .....pounds per Million British thermal units
SCC……Source Classification Codes
scfm…….standard cubic feet per minute
SIC……..Standard Industrial Classification
TPY…….Tons Per Year
USEPA.....United States Environmental Protection Agency

Pollutants
PM.....Particulate Matter
PM_{10}……...Particulate Matter ten microns or less in diameter
$PM_{2.5}$……...Particulate Matter 2.5 microns or less in diameter
SO_2.....Sulfur dioxide
NO_x .....Nitrogen Oxides
VOC(s).....Volatile Organic Compound(s)
CO.....Carbon Monoxide
HAP(s) .....Hazardous Air Pollutant(s)

I. Facility Description and Equipment List

Facility Name: John Deere Des Moines Works
Permit Number: 04-TV-017R2-M001

Facility Description: Manufacturer of farm machinery and equipment
(SIC 3523) (NAICS 333111)

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	Polk County AQD Construction Permit Number
02-P10	02-10	Maxon Powder Coat Paint Cure Oven with (4) 3.6 MMBtu/hr, (6) 4.0 MMBtu/hr, and (1) 1.0 MMBtu Maxon LE Low Emission Burners combusting natural gas	2273
02-32	02-32	George Koch & Sons 4 MMBtu/hr Pre E-Coat Dry Off Oven, combusting natural gas	1827 Modified
02-37			
02-35	02-35	(2) 5.3 MMBtu Maxon Corp. Model 8" Tube-O-Therm E-Coat Alkaline Process Heaters combusting Natural Gas	2032 Modified
02-38	02-38	West Boiler 400f bhp (16.737 MMBtu/hr) combusting Natural Gas	3259
02-39	02-39	East Boiler 400 bhp (16.737 MMBtu/hr) combusting Natural Gas	
03-02	03-02	BLD 3 Steam Boiler 300 bhp (12.554 MMBtu/hr) combusting Natural Gas	
02-OXf	02-OX2	(1) Lissmac Model SBM 1500 Oxide Remover, with Torit Model TD 486 Dust Collector	2103 Modified
02-OXf	03-OX1	(1) Lissmac Model SBM 1500 Oxide Remover, with Torit Model TD 486 Dust Collector	
03-27	03-27	George Koch & Sons 4 MM Btu/hr Washer Dry Off Oven	1825 Modified
03-30	03-30	3.6 MMBtu Immersol Jet Burner: Washer- Heat Stage 1B	1608 Modified #2
03-31	03-31	3.6 MMBtu Immersol Jet Burner: Washer- Heat Stage 1A	
11-08	11-08	Centro Plastic Storage Silo, with Camcorp Model 3125 Silo Bin Vent Dust Collector	2088
11-09	11-09	Rotational Engineering Model CH130 4.5 MMBtu/hr Rotomold Oven Combusting Natural Gas	1830 Modified #2
11-10	11-10	Rotational Engineering Inc. Rotomold Cooling	
11-11			
11-13	11-13	Rotational Engineering Inc. Ovenpak Rotomold Pre-cool and Cooling Chambers	2334 Modified
11-14			

Emission Point Number	Emission Unit Number	Emission Unit Description	Polk County AQD Construction Permit Number
11-15	11-15	Rotational Engineering Inc. Ovenpak Rotomold Natural Gas Fired Oven with LE Burners	
11-20	11-20	ALLtra Corporation Plasma Cutter with Water Table	2919 Modified
16-01	16-01	Building 16 Clarke Model JU6H-UF60 1.411 MMBtu/hr 240 Bhp Diesel Fire Pump	1826
26-01	26-01	Wheelabrator Shot Blast with Camfil Gold Series X-Flo Dust Collector	1816 Modified
40-01	40-01	Kohler 133 Bhp, diesel fired, Emergency Generator	2526
2X-Gen	2X-Gen	7083 B2X Back-up Generator – 0.068 MMBtu/hr (20 kw) (26.8 HP)	Exempt
10-Gen	10-Gen	7705 B10 Back-up Generator for Lift Stations- 0.167 MMBtu/hr (51 kw) (68.4 HP)	Exempt
57-Gen	57-Gen	7201 B57 Back-up Generator– 0.082 MMBtu/hr (24 kw) (32.2 HP)	Exempt
CT-02	CT-02	Marley Model AQ495M1SAF Cooling Tower	2527
02-G1	02-G1	CNC Doffer Grinder with (CE 02-G1): Torit Model 7080 Dry Fabric Filter Dust Collector	2122 Modified #11
02-G2	02-G2A	Cincinnati Centerless Grinder, with (CE 02-G2): Torit Model W50-25 Dry Fabric Filter Dust Collector	
	02-G2B	Cincinnati Centerless Grinder, with (CE 02-G2): Torit Model W50-25 Dry Fabric Filter Dust Collector	
02-G3	02-G3B	Cincinnati Centerless Grinder, with (CE 02-G3): Torit Model W50-25 Dry Fabric Filter Dust Collector	
	02-G3C	Cincinnati Centerless Grinder, with (CE 02-G3): Torit Model W50-25 Dry Fabric Filter Dust Collector	
02-G8	02-G8	Mori Seiki DMG Lathe with CE 02-G8 Mist Blaster Particulate Filter	
02-G9	02-G9	Mori Seiki DMG Lathe with CE 02-G9 Mist Blaster Particulate Filter	
02-G10	02-G10	Mori Seiki NHX6300DCG11 with CE 02-G10 Mist Blaster	
02-G11	02-G11	Mori Seiki NHX6300DCG11 with CE 02-G11 Mist Blaster	
02-G12	02-G12	Mori Seiki NHX6300DCG11 with CE 02-G12 Mist Blaster	
02-G13	02-G13	Mori Seiki NHX6300DCG11 with CE 02-G13 Mist Blaster	
02-G17	02-G17	2 Sleeve Presses with CE 02-G17 Donaldson Torit	
02-G18	02-G18	Ajax Tocco with CE 02-G18 Donaldson Torit	
02-G19	02-G19	Mori Seiki NHX6300 with CE 02-G19 Mist Blaster	

Emission Point Number	Emission Unit Number	Emission Unit Description	Polk County AQD Construction Permit Number
02-G20	02-G20	Mori Seiki NVX7000 with CE 02-G20 Mist Blaster	
02-G21	02-G21	Mori NZX2000 CNC Machine with CE 02-G21 Mist Collector LNS Fox WS 2-700 with HEPA filter	
02-G24	02-G24	Drum Cell (Asset # 155837) with CE 02-G24 Donaldson Mist Collector WSO 25-2 1 with HEPA filter	
	02-G25	Spider Cell (Asset # 179368)) with CE 02-G24 Donaldson Mist Collector WSO 25-2 1 with HEPA filter	
02-G26	02-G26	DMG Mori NLX2500SMC CNC Lathe	
02-G27	02-G27	DMG Mori NLX2500SMC CNC Lathe	
02-G28	02-G28	DMG Mori NLX2500SMC CNC Lathe	
02-G29	02-G29	Okuma MB-4000H	
02-G30	02-G30	Okuma MB-4000H	
02-G31	02-G31	DMG Mori NLX2500 700	
02-G32	02-G32	DMG Mori NLX2500 700	
02-G33	02-G33	DMG Mori NHX6300	
02-G34	02-G34	Vertical Milling Center	
02-G35	02-G35	DMG Mori NLX2500 700 Machining Center	
02-G36	02-G36	DMG Mori NLX2500 700 Machining Center	
02-G37	02-G37	Dehoff 1060T Twin Spindle Gun Drill	
12-G01	12-G01	Blanchard Surface Grinder with CE 12-G01 Mist Collector, Galileo Plus HEPA filter	
12-G02	12-G02	Hardinge Conquest CNC Lathe with CE 12-G02 Mist Collector, Galileo Plus HEPA filter 250P	
12-G03	12-G03	Haas VF2 CNC Mill with CE 12-G03 Mist Collector, Galileo Plus HEPA filter 1000P	
12-G04	12-G04	Hass ST25Y CNC Lathe with CE 12-G04 Mist Collector, Galileo Plus HEPA filter 1000P	
12-G05	12-G05	Haas VF11 CNC Mill with CE 12-G05 Mist Collector, Galileo Plus HEPA filter 3000P	
12-G06	12-G06	Haas VF8 CNC Mill with CE 12-G06 Mist Collector, Galileo Plus HEPA filter 3000P	
LCf	01-LC1	Trumpf 5000 Watt Laser Cutter	2069 Modified #11
	01-LC2	Trumpf 5000 Watt Laser Cutter	
	01-LC3	Trumpf 5000 Watt Laser Cutter	
	01-LC4	Trumpf 5000 Watt Laser Cutter	
	01-LC5	Trumpf 5000 Watt Laser Cutter	
	26-LC6	Trumpf Trulaser Tube 7000 T12	
	01-LC6	Trumpf 5000 Watt Laser Cutter	
	01-LC9	Trumpf 5000 Watt Laser Cutter	
	01-LC10	Trumpf 5000 Watt Laser Cutter	
	02-LC5	Trumpf 5000 Watt Laser Cutter	
	01-LC12	Trumpf 8000 Watt Laser Cutter	
	01-LC13	Trumpf 8000 Watt Laser Cutter	

Emission Point Number	Emission Unit Number	Emission Unit Description	Polk County AQD Construction Permit Number
	01-LC14	Trumpf 12kW Laser Cutter	
	01-LC15	Trumpf 12kW Laser Cutter	
	01-LC16	Trumpf 12kW Laser Cutter	
	01-LC17	Trumpf 12kW Laser Cutter	
	01-LC18	Trumpf 12kW Laser Cutter	
	01-LC19	Trumpf 12kW Laser Cutter	
01-TU1	01-TU	Vehicle Touch-Up Spray Booth, with Dry Fabric Filters	2233 Modified #8
01-TU2			
02-18	02-30	D-19 E-Coat Dip Tank	
02-19			
02-20			
02-20			
02-21			
02-22			
02-23			
02-24			
02-25			
02-26			
02-31			
02-61			
02-18	02-31	(5) – 3 MMBtu/hr Drying Burners combusting natural gas	
02-19			
02-20			
02-21			
02-22			
02-23			
02-24			
02-25			
02-26			
02-31			
02-61			
03-03	03-03	D20A Touch-Up Paint Booth, with Dry Filters	
03-06	03-04	D-20A Black Paint Dip Tank	
03-07			
03-08			
03-15			
03-20			
04-01			
03-21	03-21	D-20A North and South Paint Booths, with Dry Filters	
03-22			
03-24			
03-25			
03-36			
03-37			
03-21	03-25	(1) – 2.6 MMBtu/hr Burner combusting natural gas, with Dry Filters	
03-22			

Emission Point Number	Emission Unit Number	Emission Unit Description	Polk County AQD Construction Permit Number
03-24			
03-25			
03-21	03-AMUN	(1) – 7.348 MMBtu/hr Air Makeup Unit combusting natural gas	
03-22			
03-24			
03-25			
03-21	03-AMUS	(1) – 7.348 MMBtu/hr Air Makeup Unit combusting natural gas	
03-22			
03-24			
03-25			
03-06	03-AMUV	(1) – 1.944 MMBtu/hr Air Makeup Unit combusting natural gas	
03-07			
03-08			
03-15			
04-01			
03-37			
12-05	12-05	D-51 Maintenance Spray Booth, with Dry Filters	
Weld01f	Weld01	E70S FCAW Electrode Welder	2596 Modified
Weld02f	Weld02	General FCAW Welder	
Weld03f	Weld03	E70T FCAW Electrode Welder	
T-59	T-59	B14 Unleaded Gas Storage Tank – 6,000 gallons	Exempt
28-MB	28-MB	EcoQuip Media Blast	2867
28-C1	28-C1	Kubota Model 3800 Diesel Fired non-emergency Engine/Compressor	2868 Modified
WH-01	WH-01	Kohler Model 400 REZXD Emergency Generator with Doosan Model D219L Natural Gas Engine	3547
03-05	03-05	Hurst Welding & Boiler Co. Series 500 Natural Gas Boiler	3788

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
HW-01	Facility Natural Gas Fired Hot Water Heaters- all <10 MMBtu/hr
12-01	Heat Treat I.Q. Furnace (0.275 MMBtu/hr) (Installed Jan ’68 – grandfathered before Sept 1970)
16-TK1	Fire Pump Diesel Tank - 300 gallons
T-60	B14 Diesel Fuel Storage Tank – 6,000 gallons
T-61	B2G Diesel Fuel Storage Tank – 6,000 gallons
T-62	B2B J-20C Oil Storage Tank – 8,225 gallons
T-63	B2G Antifreeze Storage Tank – 7,050 gallons
T-64	B2G 10W-30 Storage Tank – 8,300 gallons
T-67	B2 Clean Oil Storage Tank – 3,000 gallons
T-68	B2 Dirty Oil Storage Tank – 3,000 gallons
T-69	B2 Humble H46 Storage Tank – 2,800 gallons

T-70	B2 Cutting Oil Storage Tank – 2,800 gallons
T-75	B16 Used Oil Storage Tank #1 – 5,300 gallons
T-76	B16 Used Oil Storage Tank #2 – 5,300 gallons
T-77	B3 Diesel Storage Tank – 8,000 gallons
T-78	B3 J20C Oil Storage Tank - 8,000 gallons
T-79	B3 Antifreeze Storage Tank - 8,000 gallons
T-80	B40 10W30 Oil Storage Tank - 18,600 gallons
T-81	B40 Diesel Storage Tank – 15,200 gallons
T-82	B40 RV Antifreeze Storage Tank – 15,200 gallons
T-83	B40 Antifreeze Storage Tank – 10,000 gallons
11-16	Resin Mixing Unit

II. Plant-Wide Conditions

Facility Name: John Deere Des Moines Works
Permit Number: 04-TV-017R2-M001

Permit conditions are established in accord with 567 Iowa Administrative Code rule 24.108. When 567 IAC as amended May 15, 2024, and cited in this permit becomes State Implementation Plan (SIP) approved, it will supersede 567 IAC as amended February 8, 2023. Prior to May 15, 2024, all Title V rule citations in this Title V permit were found and cited in 567 IAC Chapter 24. During the period from May 15, 2024, to the date that 567 IAC as amended May 15, 2024, is approved into the SIP, both 567 IAC as amended May 15, 2024 and 567 IAC as amended February 8, 2023 form the legal basis for the applicable requirements included in this permit. A crosswalk showing the citation changes is attached to this permit in Appendix B.

Permit Duration

The term of this permit is: Five (5) years
Commencing on: August 18, 2020
Ending on: August 17, 2025

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

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

Opacity (visible emissions): <20% opacity
Authority for Requirement: Polk County Board of Health Rules and Regulations Chapter V, Article IV, Section 5-9

Sulfur Dioxide (SO_2): 500 parts per million by volume
Authority for Requirement: 567 IAC 23.3(3)"e"
Polk County Board of Health Rules and Regulations Chapter V, Article IX, Section 5-27

Particulate Matter: If the Polk County Health Officer determines that a process complying with the emission rates specified in Table 1 of Section 5-15 of Polk County Board of Health Rules and Regulations Chapter V is causing or will cause air pollution, the Polk County Health Officer will notify the source of such determination. Upon notification, the source shall not emit particulates in amounts greater than 0.10 grain per standard cubic foot of exhaust gas.
Authority for Requirement: Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-14(b)

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"

Combustion for indirect heating: Inside any metropolitan statistical area, the maximum allowable emission from each stack, irrespective of stack height, shall be 0.6 pounds of particulates per million Btu input.
Authority for Requirement: 567 IAC 23.3(2)"b"(2)
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-15(b)

Fugitive Dust: It shall be unlawful for any person handling, loading, unloading, reloading, storing, transferring, transporting, placing, depositing, throwing, discarding, or scattering any ashes, fly ash, cinders, slag or dust collected from any combination process, any dust, dirt, chaff, wastepaper, trash, rubbish, waste or refuse matter of any kind, or any other substance or material whatever, which is likely to be scattered by the wind, or is susceptible to being wind-borne, to do so without taking reasonable precautions or measures to prevent particulate matter from becoming airborne so as to minimize atmospheric pollution.
Authority for Requirement: Polk County Board of Health Rules and Regulations Chapter V, Article IX, Section 5-24

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"

Plant-Wide Emission Limits for Coating Operations
The atmospheric emissions from the facility shall not exceed the following:

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 220 TPY
Authority for Requirement: Polk County AQD Construction Permit # 2233 Modified #8

Pollutant: Hazardous Air Pollutants (HAPs)
Emission Limit(s): Single HAP 6.0 TPY, Total HAP 15.0 TPY
Authority for Requirement: Polk County AQD Construction Permit # 2233 Modified #8

Plant-Wide Operational Limits for Coating Operations
Unless specified otherwise in the Emission Point-Specific Conditions, the following limitations and supporting regulations apply to all coating operations emission points at this facility:

- The John Deere Des Moines Works facility shall not:
    - Perform paint stripping using methylene chloride (MeCl) for the removal of dried paint.
    - Perform spray application of coatings that contain any of the following target HAP: cadmium (Cd), chromium (Cr), lead (Pb), manganese (Mn), or nickel (Ni).
- Replacement filters shall be maintained on site and available at all times. Filters must be in place when the exhaust fans are running.
- The owner or operator shall maintain a copy of the Safety Data Sheet (SDS), Technical Data Sheet (TDS), etc. for each material used for coating operations in emission units: 01-TU, 02-30, 03-03, 03-04, 03-21, and 12-05.

- To demonstrate compliance with the 220.0 ton/yr plant-wide coating operations VOC emission limit, the owner or operator shall:
    - Record the daily amount of coating materials used in the coating operations at the facility. For the purposes of tracking material usage, all materials may be considered used on the day the materials are delivered to the facility or to the production line.
    - Calculate and record the monthly and rolling 12-month total amount of VOC (in tons/yr) emitted by the coating operations at the facility. The owner or operator shall calculate VOC emissions assuming that 100% of the VOC content of the material is emitted to the atmosphere, with the exception of credits from Condition 5.F. if utilized. For the purposes of calculating emissions, all VOC may be considered emitted on the day the materials are delivered to the facility or to the surface coating operation. If the rolling 12-month total amount of VOC exceeds 187.0 tons, the owner or operator shall:
        - Immediately begin calculating and recording the daily and 365-day rolling total amount of VOC emitted by the coating operations at the facility.
        - Continue daily calculations for the total amount of VOC emissions from coating operations until the 365-day total drops below 187.0 tons for the remainder of the calendar month plus one (1) additional calendar month. At that time, the rolling daily calculation of VOC emissions will cease. If the total VOC emissions once again exceeds 187.0 tons, daily recordkeeping will be required again.
- The owner or operator may take credit for any waste VOC shipped off-site. The owner or operator shall record the amount of the waste shipped off-site and analyze the VOC content once every calendar year quarter. The sample analyzed shall be taken as a representative sample (as defined in 40 CFR § 260.10) of the waste sent off-site for that quarter and shall be used as representative until the subsequent quarters' analysis is received. The credit (calculated from the most current analysis and the amount shipped off-site) may be subtracted from the VOC rolling totals as of the date the waste is shipped off-site.
- To demonstrate compliance with the 6.0 ton/yr plant-wide coating operations Single HAP emission limit, the owner or operator shall:
    - Record the daily amount of coating materials used in the coating operations at the facility. For the purposes of tracking material usage, all materials may be considered used on the day the materials are delivered to the facility or to the production line.
    - Calculate and record the monthly and rolling 12-month total amount of Single HAP (in tons/yr) emitted by the coating operations at the. The owner or operator shall calculate HAP emissions assuming that 100% of the HAP content of the material is emitted to the atmosphere. For the purposes of calculating emissions, all HAP may be considered emitted on the day the materials are delivered to the facility or to the surface coating operation. If the rolling 12-month total amount of Single HAP exceeds 5.1 tons, the owner or operator shall:
        - Immediately begin calculating and recording the daily and 365-day rolling total amount of Single HAP emitted by the coating operations at the facility.

        - Continue daily calculations for the total amount of Single HAP emissions from coating operations until the 365-day total drops below 5.1 tons for the remainder of the calendar month plus one (1) additional calendar month. At that time, the rolling daily calculation of Single HAP emissions will cease. If the total Single HAP emissions once again exceeds 5.1 tons, daily recordkeeping will be required again.
- To demonstrate compliance with the 15.0 ton/yr plant-wide coating operations Total HAP emission limit, the owner or operator shall:
    - Record the daily amount of coating materials used in the coating operations at the facility. For the purposes of tracking material usage, all materials may be considered used on the day the materials are delivered to the facility or to the production line.
    - Calculate and record the monthly and rolling 12-month amount of Total HAP (in tons/yr) emitted by the coating operations at the facility. The owner or operator shall calculate HAP emissions assuming that 100% of the HAP content of the material is emitted to the atmosphere. For the purposes of calculating emissions, all HAP may be considered emitted on the day the materials are delivered to the facility or to the surface coating operation. If the rolling 12-month amount of Total HAP exceeds 12.75 tons, the owner or operator shall:
        - Immediately begin calculating and recording the daily and 365-day rolling amount of Total HAP emitted by the coating operations at the facility.
        - Continue daily calculations for the amount of Total HAP emissions from coating operations until the 365-day total drops below 12.75 tons for the remainder of the calendar month plus one (1) additional calendar month. At that time, the rolling daily calculation of Total HAP emissions will cease. If the Total HAP emissions once again exceeds 12.75 tons, daily recordkeeping will be required again.
- The owner/operator is permitted to use aerosol cans within the facility for touch-up applications. Emissions from paint applied using aerosol cans shall be included in the Annual Title V Emission Inventory, and counted towards the trigger amounts for daily record keeping. Use of non-refillable aerosol cans are exempt from Construction Permitting Requirements per Polk County Board of Health Rules and Regulations Chapter V, Article X, Section 5-33(49).

Authority for Requirement: Polk County AQD Construction Permit # 2233 Modified #8

Plant-Wide Operational Limits for Natural Gas Combustion
Unless specified otherwise in the Emission Point-Specific Conditions, the following limitations and supporting regulations apply to all natural gas combustion emission points at this facility:

- The owner or operator shall not exceed 1,340,681 MMBtu/yr energy usage, of natural gas for the facility.
- The owner or operator shall record monthly the natural gas usage for the facility. Usage shall be converted to Btu's with the following conversion: natural gas 1020 Btu/cf.
- Said records shall include the total 12-month Btu usage rolled monthly.
- Records shall be maintained on site for a minimum period of five years and shall be made available to representatives of AQD upon request.

Authority for Requirement: Polk County AQD Construction Permit # 3259 and 3788

III. Emission Point-Specific Conditions

Facility Name: John Deere Des Moines Works
Permit Number: **04-TV-017R2-M001**

Emission Point ID Number: 02-P10

Emission Units vented through this Emission Point: 02-10
Emission Unit Description: Maxon Powder Coat Paint Cure Oven with Maxon LE Low Emission Burners
Raw Material/Fuel: Natural Gas
Rated Capacity: (4) 3.6 MMBtu/hr burners
(6) 4.0 MMBtu/hr burners
(1) 1.0 MMBtu/hr burner

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: <20%
Authority for Requirement: Polk County Board of Health Rules and Regulations Chapter V, Article IV, Section 5-9
Polk County AQD Construction Permit #2273

Pollutant: Particulate Matter (PM / PM_{10} / $PM_{2.5}$)
Emission Limit: 0.29 lb./hr and 1.29 TPY and 0.10 gr./dscf (PM only)
Authority for Requirement: 567 IAC 23.3(2) "a"
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-14(b)
Polk County AQD Construction Permit #2273

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit: 0.02 lb./hr and 0.10 TPY and 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"
Polk County Board of Health Rules and Regulations Chapter V, Article IX, Section 5-27(5)
Polk County AQD Construction Permit #2273

Pollutant: Nitrogen Oxide (NO_x)
Emission Limit: 3.86 lb./hr and 16.91 TPY
Authority for Requirement: Polk County AQD Construction Permit #2273

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit: 0.21 lb./hr and 0.93 TPY
Authority for Requirement: Polk County AQD Construction Permit #2273

Pollutant: Carbon Monoxide (CO)
Emission Limit: 3.24 lb./hr and 14.21 TPY
Authority for Requirement: Polk County AQD Construction Permit #2273

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

Stack Height, (ft. from the ground): 45
Stack Opening, (inches, dia.): 51, Circular
Exhaust Flow Rate (scfm): 34,560
Exhaust Temperature (°F): 450
Discharge Style: Vertical, Unobstructed
Authority for Requirement: Polk County AQD Construction Permit #2273

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 02-32 and 02-37

Emission Unit vented through this Emission Point: 02-32
Emission Unit Description: Maxon George Koch & Sons Pre E-Coat Dry Off Oven
Raw Material/Fuel: Natural Gas
Rated Capacity: 4 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: <20%
Authority for Requirement: Polk County Board of Health Rules and Regulations Chapter V, Article IV, Section 5-9
Polk County AQD Construction Permit #1827 Modified

Pollutant: Particulate Matter (PM / PM_{10} / $PM_{2.5}$)
Emission Limits: 0.03 lb./hr and 0.13 TPY and 0.10 gr./dscf (PM only)
Authority for Requirement: 567 IAC 23.3(2) "a"
Polk County Board of Health Rules and Regulations Chapter V, Article V, Section 5-14(b)
Polk County AQD Construction Permit #1827 Modified

Pollutant: SO_2
Emission Limits: 0.002 lb./hr and 0.01 TPY and 500 ppmv
Authority for Requirement: 567 IAC 23.3(3) "e"
Polk County Board of Health Rules and Regulations Chapter V, Article IX, Section 5-27(5)
Polk County AQD Construction Permit #1827 Modified

Pollutant: Nitrogen Oxide (NO_x)
Emission Limits: 0.39 lb./hr and 1.72 TPY
Authority for Requirement: Polk County AQD Construction Permit #1827 Modified

Pollutant: Volatile Organic Compounds (VOC)
Emission Limits: 0.02 lb./hr and 0.09 TPY
Authority for Requirement: Polk County AQD Construction Permit #1827 Modified

Pollutant: Carbon Monoxide (CO)
Emission Limits: 0.33 lb./hr and 1.44 TPY
Authority for Requirement: Polk County AQD Construction Permit #1827 Modified

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

Stack Height, (ft. from the ground): 43
Stack Opening, (inches, dia.): 18, Circular
Exhaust Flow Rate (scfm): 1,891
Exhaust Temperature (°F): 350
Discharge Style: Vertical, Unobstructed
Authority for Requirement: Polk County AQD Construction Permit #1827 Modified

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 02-35

Emission Unit vented through this Emission Point: 02-35
Emission Unit Description: (2) 5.3 MMBtu Maxon Corp. Model 8" Tube-O-Therm E-Coat Alkaline Process Heaters
Raw Material/Fuel: Natural Gas
Rated Capacity: 10.6 MMBtu/hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: <20%
Authority for Requirement: Polk County Board of Health Rules and Regulations Chapter V, Article IV, Section 5-9
Polk County AQD Construction Permit #2032 Modified

Pollutant: Particulate Matter ($PM/PM_{10}/PM_{2.5}$)
Emission Limits: 0.08 lbs./hr and 0.35 TPY and 0.10 gr./dscf (PM only)
Authority for Requirement: 567 IAC 23.3(2) "a"
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-14(b)
Polk County AQD Construction Permit #2032 Modified

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit: 0.01 lbs./hr and 0.03 TPY and 500 ppmv
Authority for Requirement: 567 IAC 23.3(3) "e"
Polk County Board of Health Rules and Regulations Chapter V, Article IX, Section 5-27(5)
Polk County AQD Construction Permit #2032 Modified

Pollutant: Nitrogen Oxide (NO_x)
Emission Limits: 1.04 lb./hr and 4.56 TPY
Authority for Requirement: Polk County AQD Construction Permit #2032 Modified

Pollutant: Volatile Organic Compounds (VOC)
Emission Limits: 0.06 lb./hr and 0.26 TPY
Authority for Requirement: Polk County AQD Construction Permit #2032 Modified

Pollutant: Carbon Monoxide (CO)
Emission Limits: 0.87 lb./hr and 3.81 TPY
Authority for Requirement: Polk County AQD Construction Permit #2032 Modified

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

Stack Height, (ft. from the ground): 36
Stack Opening, (inches, dia.): 20, Circular
Exhaust Flow Rate (scfm): 1,891
Exhaust Temperature (°F): 100
Discharge Style: Vertical, Unobstructed
Authority for Requirement: Polk County AQD Construction Permit #2032 Modified

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 02-38

Emission Unit vented through this Emission Point: 02-38
Emission Unit Description: Cleaver Brooks West Boiler
Raw Material/Fuel: Natural Gas
Rated Capacity: 400 bhp; 16.737 MMBtu/hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: <20%
Authority for Requirement: Polk County Board of Health Rules and Regulations Chapter V, Article IV, Section 5-9
Polk County AQD Construction Permit #3259

Pollutant: Particulate Matter ($PM/PM_{10}/PM_{2.5}$)
Emission Limits: 0.125 lbs./hr and 0.546 TPY and 0.10 gr./dscf (PM only)
Authority for Requirement: 567 IAC 23.3(2) "a"
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-14(b)
Polk County AQD Construction Permit #3259

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit: 0.010 lbs./hr and 0.043 TPY and 500 ppmv
Authority for Requirement: 567 IAC 23.3(3) "e"
Polk County Board of Health Rules and Regulations Chapter V, Article IX, Section 5-27(5)
Polk County AQD Construction Permit #3259

Pollutant: Nitrogen Oxide (NO_x)
Emission Limits: 1.641 lb./hr and 7.187 TPY
Authority for Requirement: Polk County AQD Construction Permit #3259

Pollutant: Volatile Organic Compounds (VOC)
Emission Limits: 0.090 lb./hr and 0.395 TPY
Authority for Requirement: Polk County AQD Construction Permit #3259

Pollutant: Carbon Monoxide (CO)
Emission Limits: 1.378 lb./hr and 6.037 TPY
Authority for Requirement: Polk County AQD Construction Permit #3259

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

Process Throughput, Work Practice, and Recordkeeping Requirements:

- See Plant-Wide Conditions.

Authority for Requirement: Polk County AQD Construction Permit #3259

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

Stack Height, (ft. from the ground): 40
Stack Opening, (inches, dia.): 24, Circular
Exhaust Flow Rate (scfm): 9,606
Exhaust Temperature (°F): 400
Discharge Style: Vertical, Unobstructed
Authority for Requirement: Polk County AQD Construction Permit #3259

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 02-39

Emission Unit vented through this Emission Point: 02-39
Emission Unit Description: Cleaver Brooks East Boiler
Raw Material/Fuel: Natural Gas
Rated Capacity: 400 bhp; 16.737 MMBtu/hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: <20%
Authority for Requirement: Polk County Board of Health Rules and Regulations Chapter V, Article IV, Section 5-9
Polk County AQD Construction Permit #3259

Pollutant: Particulate Matter ($PM/PM_{10}/PM_{2.5}$)
Emission Limits: 0.125 lbs./hr and 0.546 TPY and 0.10 gr./dscf (PM only)
Authority for Requirement: 567 IAC 23.3(2) "a"
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-14(b)
Polk County AQD Construction Permit #3259

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit: 0.010 lbs./hr and 0.043 TPY and 500 ppmv
Authority for Requirement: 567 IAC 23.3(3) "e"
Polk County Board of Health Rules and Regulations Chapter V, Article IX, Section 5-27(5)
Polk County AQD Construction Permit #3259

Pollutant: Nitrogen Oxide (NO_x)
Emission Limits: 1.641 lb./hr and 7.187 TPY
Authority for Requirement: Polk County AQD Construction Permit #3259

Pollutant: Volatile Organic Compounds (VOC)
Emission Limits: 0.090 lb./hr and 0.395 TPY
Authority for Requirement: Polk County AQD Construction Permit #3259

Pollutant: Carbon Monoxide (CO)
Emission Limits: 1.378 lb./hr and 6.037 TPY
Authority for Requirement: Polk County AQD Construction Permit #3259

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

Process Throughput, Work Practice, and Recordkeeping Requirements:

- See Plant-Wide Conditions.

Authority for Requirement: Polk County AQD Construction Permit #3259

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

Stack Height, (from the ground): 40
Stack Opening, (inches, dia.): 24, Circular
Exhaust Flow Rate (scfm): 9,606
Exhaust Temperature (°F): 400
Discharge Style: Vertical, Unobstructed
Authority for Requirement: Polk County AQD Construction Permit #3259

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 03-02

Emission Unit vented through this Emission Point: 03-02
Emission Unit Description: Cleaver Brooks BLD 3 Steam Boiler
Raw Material/Fuel: Natural Gas
Rated Capacity: 300 bhp; 12.554 MMBtu/hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: <20%
Authority for Requirement: Polk County Board of Health Rules and Regulations Chapter V, Article IV, Section 5-9
Polk County AQD Construction Permit #3259

Pollutant: Particulate Matter ($PM/PM_{10}/PM_{2.5}$)
Emission Limits: 0.094 lbs./hr and 0.410 TPY and 0.10 gr./dscf (PM only)
Authority for Requirement: 567 IAC 23.3(2) "a"
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-14(b)
Polk County AQD Construction Permit #3259

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit: 0.007 lbs./hr and 0.032 TPY and 500 ppmv
Authority for Requirement: 567 IAC 23.3(3) "e"
Polk County Board of Health Rules and Regulations Chapter V, Article IX, Section 5-27(5)
Polk County AQD Construction Permit #3259

Pollutant: Nitrogen Oxide (NO_x)
Emission Limits: 1.231 lb./hr and 5.391 TPY
Authority for Requirement: Polk County AQD Construction Permit #3259

Pollutant: Volatile Organic Compounds (VOC)
Emission Limits: 0.068 lb./hr and 0.296 TPY
Authority for Requirement: Polk County AQD Construction Permit #3259

Pollutant: Carbon Monoxide (CO)
Emission Limits: 1.034 lb./hr and 4.528 TPY
Authority for Requirement: Polk County AQD Construction Permit #3259

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

Process Throughput, Work Practice, and Recordkeeping Requirements:

- See Plant-Wide Conditions.

Authority for Requirement: Polk County AQD Construction Permit #3259

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

Stack Height, (from the ground): 44
Stack Opening, (inches, dia.): 25, Circular
Exhaust Flow Rate (scfm): 7,205
Exhaust Temperature (°F): 400
Discharge Style: Vertical, Unobstructed
Authority for Requirement: Polk County AQD Construction Permit #3259

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

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

Associated Equipment

Associated Emission Unit ID Numbers: 02-OX2, 03-OX1
Emissions Control Equipment ID Number: CE 02-OX and CE 03-OX
Emissions Control Equipment Description: (2) Torit Model TD 486 Dust Collectors

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Control Equipment Description	Raw Material / Fuel	Rated Capacity
02-OXf	02-OX2	Lissmac Model SBM 1500 Oxide Remover	02-OX	Torit Model TD 486 Dust Collectors	Steel Sheets	280 inches/minute
03-OXf	03-OX1	Lissmac Model SBM 1500 Oxide Remover	03-OX	Torit Model TD 486 Dust Collectors	Steel Sheets	280 inches/minute

Applicable Requirements

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

Emission Point	Emission Unit	PM/PM_{10} Limit (lbs./hr.)	PM/PM_{10} Limit (TPY)	PM/PM_{10} Limit (gr./dscf)
02-OXf	02-OX2	0.10	0.44	0.05
03-OXf	03-OX1	0.10	0.44	0.05

Authority for Requirement: 567 IAC 23.4(6)
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-16(l)
Polk County AQD Construction Permit #2103 Modified

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

Work Practice Standards:

- Routine periodic inspection.

Authority for Requirement: Polk County AQD Construction Permit #2103 Modified

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

Discharge Style: (Internally Vented)
Authority for Requirement: Polk County AQD Construction Permit #2103 Modified

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 03-27

Emission Unit vented through this Emission Point: 03-27
Emission Unit Description: George Koch & Sons Washer Dry Off Oven
Raw Material/Fuel: Natural Gas
Rated Capacity: 4.0 MMBtu/hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: <20%
Authority for Requirement: Polk County Board of Health Rules and Regulations Chapter V, Article IV, Section 5-9
Polk County AQD Construction Permit #1825 Modified

Pollutant: Particulate Matter ($PM/PM_{10}/PM_{2.5}$)
Emission Limits: 0.03 lbs./hr and 0.13 TPY and 0.10 gr./dscf (PM only)
Authority for Requirement: 567 IAC 23.3(2) “a”
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-14(b)
Polk County AQD Construction Permit #1825 Modified

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit: 0.002 lbs./hr and 0.01 TPY and 500 ppmv
Authority for Requirement: 567 IAC 23.3(3) "e"
Polk County Board of Health Rules and Regulations Chapter V, Article IX, Section 5-27(5)
Polk County AQD Construction Permit #1825 Modified

Pollutant: Nitrogen Oxide (NO_x)
Emission Limits: 0.39 lb./hr and 1.72 TPY
Authority for Requirement: Polk County AQD Construction Permit #1825 Modified

Pollutant: Volatile Organic Compounds (VOC)
Emission Limits: 0.02 lb./hr and 0.09 TPY
Authority for Requirement: Polk County AQD Construction Permit #1825 Modified

Pollutant: Carbon Monoxide (CO)
Emission Limits: 0.33 lb./hr and 1.44 TPY
Authority for Requirement: Polk County AQD Construction Permit #1825 Modified

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

Stack Height, (from the ground): 24
Stack Opening, (inches, dia.): 14, Circular
Exhaust Flow Rate (scfm): 4,991
Exhaust Temperature (°F): 350
Discharge Style: Vertical, Unobstructed
Authority for Requirement: Polk County AQD Construction Permit #1825 Modified

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 03-30 and 03-31

Emission Point	Emission Unit	Emission Unit Description	Raw Material / Fuel	Rated Capacity
03-30	03-30	Immersol Jet Burner: Washer-Heat Stage 1B	Natural Gas	3.6 MMBtu/hr
03-31	03-31	Immersol Jet Burner: Washer-Heat Stage 1A	Natural Gas	3.6 MMBtu/hr

Applicable Requirements

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

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

(EU 03-30 / EP 03-30)

Pollutant: Opacity
Emission Limit: <20%
Authority for Requirement: Polk County Board of Health Rules and Regulations Chapter V, Article IV, Section 5-9
Polk County AQD Construction Permit #1608 Modified #2

Pollutant: Particulate Matter ($PM/PM_{10}/PM_{2.5}$)
Emission Limits: 0.03 lbs./hr and 0.13 TPY and 0.10 gr./dscf (PM only)
Authority for Requirement: 567 IAC 23.3(2) “a”
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-14(b)
Polk County AQD Construction Permit #1608 Modified #2

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit: 0.002 lbs./hr and 0.01 TPY and 500 ppmv
Authority for Requirement: 567 IAC 23.3(3) "e"
Polk County Board of Health Rules and Regulations Chapter V, Article IX, Section 5-27(5)
Polk County AQD Construction Permit #1608 Modified #2

Pollutant: Nitrogen Oxide (NO_x)
Emission Limits: 0.35 lb./hr and 1.53 TPY
Authority for Requirement: Polk County AQD Construction Permit #1608 Modified #2

Pollutant: Volatile Organic Compounds (VOC)
Emission Limits: 0.02 lb./hr and 0.09 TPY
Authority for Requirement: Polk County AQD Construction Permit #1608 Modified #2

Pollutant: Carbon Monoxide (CO)
Emission Limits: 0.30 lb./hr and 1.31 TPY
Authority for Requirement: Polk County AQD Construction Permit #1608 Modified #2

(EU 03-31 / EP 03-31)

Pollutant: Opacity
Emission Limit: <20%
Authority for Requirement: Polk County Board of Health Rules and Regulations Chapter V, Article IV, Section 5-9
Polk County AQD Construction Permit #1608 Modified #2

Pollutant: Particulate Matter ($PM/PM_{10}/PM_{2.5}$)
Emission Limits: 0.03 lbs./hr and 0.13 TPY and 0.10 gr./dscf (PM only)
Authority for Requirement: 567 IAC 23.3(2) “a”
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-14(b)
Polk County AQD Construction Permit #1608 Modified #2

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit: 0.002 lbs./hr and 0.01 TPY and 500 ppmv
Authority for Requirement: 567 IAC 23.3(3) "e"
Polk County Board of Health Rules and Regulations Chapter V, Article IX, Section 5-27(5)
Polk County AQD Construction Permit #1608 Modified #2

Pollutant: Nitrogen Oxide (NO_x)
Emission Limits: 0.35 lb./hr and 1.53 TPY
Authority for Requirement: Polk County AQD Construction Permit #1608 Modified #2

Pollutant: Volatile Organic Compounds (VOC)
Emission Limits: 0.02 lb./hr and 0.09 TPY
Authority for Requirement: Polk County AQD Construction Permit #1608 Modified #2

Pollutant: Carbon Monoxide (CO)
Emission Limits: 0.30 lb./hr and 1.31 TPY
Authority for Requirement: Polk County AQD Construction Permit #1608 Modified #2

Emission Point Characteristics
The emission point shall conform to the specifications listed below.
(EP 03-30 and EP 03-31)

Stack Height, (from the ground): 26.0
Stack Opening, (inches, dia.): 18, Circular
Exhaust Flow Rate (scfm): 3,368
Exhaust Temperature (°F): 400
Discharge Style: Vertical, Unobstructed
Authority for Requirement: Polk County AQD Construction Permit #1608 Modified #2

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 11-08

Associated Equipment

Emissions Control Equipment ID Number: 11-08
Emissions Control Equipment Description: Camcorp Model 3125 Silo
Bin Vent Dust Collector

Emission Unit vented through this Emission Point: 11-08
Emission Unit Description: Centro Plastic Storage Silo
Raw Material/Fuel: Polyethylene powder
Rated Capacity: 17.5 ft^3/hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: <20%
Authority for Requirement: Polk County Board of Health Rules and Regulations Chapter V, Article IV, Section 5-9
Polk County AQD Construction Permit #2088

Pollutant: Particulate Matter (PM/PM_{10})
Emission Limits: 0.09 lbs./hr and 0.38 TPY and 0.01 gr./dscf
Authority for Requirement: Polk County AQD Construction Permit #2088

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

Work Practice Standards:

- Routine maintenance and inspection.

Authority for Requirement: Polk County AQD Construction Permit #2088

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

Stack Height, (from the ground): 43
Stack Opening, (inches): 5.5 x 5.5, Square
Exhaust Flow Rate (scfm): 1,000
Exhaust Temperature (°F): Ambient
Discharge Style: Horizontal
Authority for Requirement: Polk County AQD Construction Permit #2088

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 11-09, 11-10, and 11-11

Emission Point	Emission Unit	Emission Unit Description	Raw Material / Fuel	Rated Capacity
11-09	11-09	Rotational Engineering Inc. Rotomold Model CH130 Natural Gas Fired Oven	Natural Gas	4.5 MMBtu/hr
11-10	11-10	Cooling	Plastic Resin	700 lb/hr
11-11				

Applicable Requirements

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

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

Emission Point	Emission Unit	Pollutant	Limit	Reference
11-10 and 11-11 combined	11-10	Opacity	20%	Article IV, Section 5-9
		PM	0.74 tons/yr, 0.10 gr/dscf	Article VI, Section 5-14(b)
		PM_{10}	0.74 tons/yr.	
		VOC	0.48 tons/yr	
		Single HAP	0.03 tons/yr	
		Total HAP	0.05 tons/yr	
11-09	11-09	Opacity	20%	Article IV, Section 5-9
		PM	0.15tons/yr, 0.10 gr/dscf	Article VI, Section 5-14(b)
		PM_{10}	0.15 tons/yr	
		SO_2	0.01 tons/yr, 500 ppmv	Article IX, Section 5-27(5)
		NO_x	1.93 tons/yr	
		VOC	0.11, tons/yr	
		CO	1.62 tons/yr	
		Single HAP	0.04 tons/yr	
		Total HAP	0.04 tons/yr	

Authority for Requirement: 567 IAC 23.3(2) “a”
567 IAC 23.3(3) "e"
Polk County Board of Health Rules and Regulations Chapter V
Polk County AQD Construction Permit #1830 Modified #2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Parameter	EP 11-09	EP 11-10	EP 11-11
Stack Height, (ft, from the ground)	32	32	32
Stack Opening, (inches, dia.)	14, Circular	32, Circular	32, Circular
Exhaust Flow Rate (scfm)	1,500	14,040	14,040
Exhaust Temperature (°F)	700	110	110
Discharge Style	Vertical, obstructed	Vertical, obstructed	Vertical, obstructed

Authority for Requirement: Polk County AQD Construction Permit # 1830 Modified #2

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 11-13, 11-14, & 11-15

Emission Point	Emission Unit	Emission Unit Description	Raw Material / Fuel	Rated Capacity
11-13	11-13	Pre-cool and Cooling Chambers	Plastic Resin	500 lb./hr
11-14				
11-15	11-15	Rotational Engineering Inc. Ovenpak Rotomold Natural Gas Fired Oven with LE burners	Natural Gas	4.5 MMBtu/hr

Applicable Requirements

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

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

Emission Point	Emission Unit	Pollutant	Limit	Reference
11-13 and 11-14 combined	11-13	Opacity	20%	Article IV, Section 5-9
		PM	0.53 tons/yr, 0.10 gr/dscf	Article VI, Section 5-14(b)
		PM_{10}	0.53 tons/yr	
		VOC	0.34 tons/yr	
		Single HAP	0.02 tons/yr	
		Total HAP	0.04 tons/yr	
11-15	11-15	Opacity	20%	Article IV, Section 5-9
		PM	0.15 tons/yr, 0.10 gr/dscf	Article VI, Section 5-14(b)
		PM_{10}	0.15 tons/yr	
		SO_2	0.01 tons/yr, 500 ppmv	Article IX, Section 5-27(5)
		NO_x	1.93 tons/yr	
		VOC	0.11 tons/yr	
		CO	1.62 tons/yr	
		Single HAP	0.04 tons/yr	
		Total HAP	0.04 tons/yr	

Authority for Requirement: 567 IAC 23.3(2) “a”

567 IAC 23.3(3) "e"
Polk County Board of Health Rules and Regulations Chapter V,
Polk County AQD Construction Permit #2334 Modified

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Parameter	EP 11-13	EP 11-14	EP 11-15
Stack Height, (ft, from the ground)	32	32	32
Stack Opening, (inches, dia.)	48, Circular	48, Circular	14, Circular
Exhaust Flow Rate (scfm)	17,570	17,570	1,500
Exhaust Temperature (°F)	110	110	700
Discharge Style	Vertical, obstructed	Vertical, obstructed	Vertical, obstructed

Authority for Requirement: Polk County AQD Construction Permit #2334 Modified

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 11-20

Associated Equipment

Emissions Control Equipment ID Number: 11-20
Emissions Control Equipment Description: Water Table

Emission Unit vented through this Emission Point: 11-20
Emission Unit Description: ALLtra Corporation Plasma Cutter
Raw Material/Fuel: Steel
Rated Capacity: 1.5 inches mild steel @ 35”/minute (or equivalent)

Applicable Requirements

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

Pollutant: Particulate Matter (PM)
Emission Limits: 0.84 lbs./hr and 3.68 TPY and 0.05 gr./dscf
Authority for Requirement: 567 IAC 23.4(6)
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-16(l)
Polk County AQD Construction Permit #2919 Modified

Pollutant: PM_{10}
Emission Limits: 0.84 lbs./hr and 3.68 TPY
Authority for Requirement: Polk County AQD Construction Permit #2919 Modified

Pollutant: HAP (single)
Emission Limits: 0.016 lbs./hr and 0.070 TPY
Authority for Requirement: Polk County AQD Construction Permit #2919 Modified

Pollutant: HAP (combined)
Emission Limits: 0.019 lbs./hr and 0.083 TPY
Authority for Requirement: Polk County AQD Construction Permit #2919 Modified

Operational Limits & Requirements

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

Process Throughput, Work Practice, and Recordkeeping Requirements:

- At all times, the owner or operator must operate and maintain the affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.
- Facility shall perform routine maintenance and inspections as per manufacturer's guidance for the plasma cutter and control equipment.
- Current SDS shall be maintained on site for each material used with the plasma cutter.

Authority for Requirement: Polk County AQD Construction Permit #2919 Modified

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Discharge Style: Fugitive (Internally Vented)
Authority for Requirement: Polk County AQD Construction Permit #2919 Modified

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 16-01

Emission Unit vented through this Emission Point: 16-01
Emission Unit Description: Building 16 Clarke Model JU6H-UF60 240 BHP Fire Pump
Raw Material/Fuel: Diesel
Rated Capacity: 1.411 MMBtu/hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: <20%
Authority for Requirement: Polk County AQD Construction Permit #1826

Pollutant: Particulate Matter (PM/PM_{10})
Emission Limits: 0.44 lbs./hr and 1.91 TPY
Authority for Requirement: Polk County AQD Construction Permit #1826

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit: 0.41 lbs./hr and 1.79 TPY
Authority for Requirement: Polk County AQD Construction Permit #1826

Pollutant: Nitrogen Oxide (NO_x)
Emission Limits: 6.22 lb./hr and 27.24 TPY
Authority for Requirement: Polk County AQD Construction Permit #1826

Pollutant: Volatile Organic Compounds (VOC)
Emission Limits: 0.49 lb./hr and 2.16 TPY
Authority for Requirement: Polk County AQD Construction Permit #1826

Pollutant: Carbon Monoxide (CO)
Emission Limits: 1.34 lb./hr and 5.87 TPY
Authority for Requirement: Polk County AQD Construction Permit #1826

Operational Limits & Requirements

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

Process throughput:

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

Authority for Requirement: 567 IAC 23.3(3) "b"(1)
Polk County Board of Health Rules and Regulations Chapter V, Article IX, Section 5-27(5)
Polk County AQD Construction Permit #1826

Reporting & Recordkeeping:

The following records shall be maintained on-site for five (5) years and available for inspection upon request by representatives of Polk County AQD:

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

Authority for Requirement: 567 IAC 24.108(3)

Work practice standards:

- Facility shall comply with all applicable conditions of 40 CFR Part 63 Subpart ZZZZ.
- The owner or operator shall operate EU 16-01 in a manner consistent with the definition of an emergency RICE per §63.6675.
- Routine periodic inspection.

Authority for Requirement: Polk County AQD Construction Permit #1826

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (from the ground): 20
Stack Opening, (inches, dia.): 5, Circular
Exhaust Flow Rate (scfm): 465
Exhaust Temperature (°F): 800-950
Discharge Style: Vertical, unobstructed
Authority for Requirement: Polk County AQD Construction Permit #1826

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 26-01

Associated Equipment

Emissions Control Equipment ID Number: 26-01
Emissions Control Equipment Description: Camfil Gold Series X-Flo Dust Collector

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Emission Unit vented through this Emission Point: 26-01
Emission Unit Description: Wheelabrator Shot Blast
Raw Material/Fuel: Steel shot
Rated Capacity: 35,700 lbs./hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: <20%
Authority for Requirement: Polk County Board of Health Rules and Regulations Chapter V, Article IV, Section 5-9
Polk County AQD Construction Permit #1816 Modified

Pollutant: Particulate Matter (PM)
Emission Limits: 0.43 lbs./hr, 1.88 TPY and 0.05 gr./dscf
Authority for Requirement: 567 IAC 23.4(6)
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-16(l)
Polk County AQD Construction Permit #1816 Modified

Pollutant: Particulate Matter (PM_{10})
Emission Limits: 0.43 lbs./hr and 1.88 TPY
Authority for Requirement: Polk County AQD Construction Permit #1816 Modified

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

Process Throughput, Work Practice, and Recordkeeping Requirements:

- At all times, the owner or operator must operate and maintain the affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.

- Facility shall perform routine maintenance and inspections as per manufacturer's guidance for the Wheelabrator Shot Blast and control equipment.

Authority for Requirement: Polk County AQD Construction Permit #1816 Modified

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (from the ground): 17
Stack Opening, (inches, dia.): 24 x 16, Rectangular
Exhaust Flow Rate (scfm): 10,000
Exhaust Temperature (°F): 70
Discharge Style: Horizontal
Authority for Requirement: Polk County AQD Construction Permit #1816 Modified

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 40-01

Emission Unit vented through this Emission Point: 40-01
Emission Unit Description: Kohler Emergency Generator
Raw Material/Fuel: Diesel
Rated Capacity: 133 BHP

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: <20%
Authority for Requirement: Polk County Board of Health Rules and Regulations Chapter V, Article IV, Section 5-9
Polk County AQD Construction Permit #2526

Pollutant: Particulate Matter (PM/PM_{10})
Emission Limits: 0.26 lbs./hr and 0.07 TPY and 1.2 gram/kW-hr
Authority for Requirement: 40 CFR 60 Subpart IIII
567 IAC 23.1(2) "yyy"
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-16(n)(77)
Polk County AQD Construction Permit #2526

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit: 0.27 lbs./hr and 0.07 TPY and 0.5 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(3) "b"
Polk County Board of Health Rules and Regulations Chapter V, Article IX, Section 5-27(2)
Polk County AQD Construction Permit #2526

Pollutant: NMHC + Nitrogen Oxide (NO_x)
Emission Limits: 1.44 lb./hr and 0.36 TPY and 6.6 gram/kW-hr
Authority for Requirement: 40 CFR 60 Subpart IIII
567 IAC 23.1(2) "yyy"
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-16(n)(77)
Polk County AQD Construction Permit #2526

Pollutant: Carbon Monoxide (CO)
Emission Limits: 0.89 lb./hr and 0.22 TPY
Authority for Requirement: Polk County AQD Construction Permit #2526

Operational Limits & Requirements

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

Hours of operation:

- The owner or operator shall not exceed a maximum of 500 hours of operation per any twelve month period, rolled monthly. The facility shall record monthly the hours of operation. Said log shall include the 12 month rolling total of hours operated.
- The unit shall be equipped with a non-resettable hour meter.

Hours of operation:

- All applicable conditions of 40 CFR 60 Subpart IIII –Standards of Performance for Stationary Compression Ignition Internal Combustion Engines shall be complied with.
- The generator shall be operated in a manner consistent with the definition of an emergency stationary non-fire pump internal combustion engine per §60.4219.
- The owner or operator shall comply with the emission standards of §60.4202(a)(2) per §60.4205(b).
- The owner or operator shall operate and maintain the engine certified to the emission standards in §60.4204 and §60.4205 for the life of the engine per §60.4206.
- The owner or operator shall comply with the emission standards from 40 CFR 89.112 and 89.113 for all pollutants.
- The owner or operator must use fuel that meets requirements of §60.4207(b).
- The owner or operator shall comply with the monitoring requirements of §60.4209.
- The owner or operator shall comply with the compliance requirements of §60.4211.
- The stationary combustion ignition engine must be certified to the emission standards in §60.4204(b), §60.4205(b), or (c) as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in §60.4211(g) per §60.4211(c).
- The owner or operator may operate the emergency stationary ICE for the purpose of maintenance check and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing is limited to 100 hours per 12-month period. There is no time limit on the use of emergency stationary ICE in emergency situations. Emergency stationary ICE may operate up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for 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 non-emergency power as part of a financial arrangement with another entity. Any operation other than emergency operation, and maintenance and testing as permitted in this section is prohibited per §60.4211(f).
- Owners and operators of stationary CI ICE with a displacement of less than 30 liters per cylinder who conduct performance tests pursuant to this subpart must do so according to paragraphs (a) through (e) of §60.4212.
- This equipment is of the source category affected by the following federal regulations for air toxic emissions: National Emission Standards for Hazardous Air Pollutants

(NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE) [40 CFR Part 63, Subpart ZZZZ (4Z)].

- The owner or operator of this equipment is responsible for complying with all 4Z requirements.
- Routine maintenance and inspection.

Reporting & Recordkeeping:

- The owners or operator shall comply with the notification, reporting, and recordkeeping requirements of §60.4214.
- The owner or operator shall record the run time each time the unit is operated. The log shall indicate the purpose of the operation, i.e. maintenance check, readiness testing or emergency use. Said log shall be kept on site for a minimum period of five years and shall be made available to representatives of this department *(AQD)* upon request.

Authority for Requirement: 40 CFR 60 Subpart IIII
567 IAC 23.1(2) "yyy"
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-16(n)(77)
40 CFR 63 Subpart ZZZZ
567 IAC 23.1(4) "cz"
Polk County Board of Health Rules and Regulations Chapter V, Article VIII, Section 5-20(zzzz)
Polk County AQD Construction Permit #2526

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (from the ground): 8
Stack Opening, (inches, dia.): 4, Circular
Exhaust Flow Rate (scfm): 235
Exhaust Temperature (°F): 1074
Discharge Style: Vertical, unobstructed
Authority for Requirement: Polk County AQD Construction Permit #2526

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number	Emission Unit ID Number	Emission Unit Description and Rated Capacity	Polk County Construction Permit Number
2X-Gen	2X-Gen	7083 B2X Back-up Generator – 0.068 mmBtu/hr (20 kw) (26.8 HP)	Exempt
10-Gen	10-Gen	7705 B10 Back-up Generator for Lift Stations – 0.167 mmBtu/hr (51 kw) (68.4 HP)	Exempt
57-Gen	57-Gen	7201 B57 Back-up Generator – 0.082 mmBtu/hr (24 kw) (32.2 HP)	Exempt

Raw Material/Fuel: Natural Gas

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit: <20%
Authority for Requirement: Polk County Board of Health Rules and Regulations Chapter V, Article IV, Section 5-9

Pollutant: Particulate Matter (PM)
Emission Limits: 0.10 gr./dscf
Authority for Requirement: 567 IAC 23.3(2) "a"
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-14(b)

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit: 500 ppmv
Authority for Requirement: 567 IAC 23.3(3) "e"
Polk County Board of Health Rules and Regulations Chapter V, Article IX, Section 5-27

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)(iii) these spark ignition emergency engines, located at an area source, are existing stationary RICE, as they were constructed prior to June 12, 2006.

Compliance Date

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

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

- Change oil and filter every 500 hours of operation or annually, whichever comes first. (See 63.6625(j) for the oil analysis option to extend time frame of requirements.)
- Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first, and replace as necessary.
- Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
- 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.
- Install a non-resettable hour meter if one is not already installed.
- 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)

- Any operation other than emergency operation, maintenance and testing, emergency demand response and operation in non-emergency situations (up to) 50 hours per year is prohibited.
- There is no time limit on the use of emergency stationary RICE in emergency situations.
- You may operate your emergency stationary RICE up to 100 combined hours per calendar year for maintenance checks and readiness testing, emergency demand response and periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency. See 40 CFR 63.6640(f)(2) for additional information and restrictions.
- 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 and emergency demand response.

Recordkeeping Requirements 40 CFR 63.6655

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

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

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

Authority for Requirement: 40 CFR 63 Subpart ZZZZ
567 IAC 23.1(4) "cz"
Polk County Board of Health Rules and Regulations Chapter V, Article VIII, Section 5-20(zzzz)

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: CT-02

Emission Unit vented through this Emission Point: CT-02
Emission Unit Description: Marley Model AQ495M1SAF Cooling Tower
Raw Material/Fuel: Water
Rated Capacity: 375 gallon/minute

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: <20%
Authority for Requirement: Polk County Board of Health Rules and Regulations Chapter V, Article IV, Section 5-9
Polk County AQD Construction Permit #2527

Pollutant: Particulate Matter (PM)
Emission Limits: 0.01 lbs./hr and 0.04 TPY and 0.10 gr/dscf
Authority for Requirement: 567 IAC 23.3(2) "a"
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-14(b)
Polk County AQD Construction Permit #2527

Pollutant: PM_{10}
Emission Limits: 0.01 lbs./hr and 0.04 TPY
Authority for Requirement: Polk County AQD Construction Permit #2527

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

Work practice standards:

- Routine maintenance and inspection.
- The owner/operator shall not use any chromium based water treatment chemicals or other products which would make the cooling tower an affected source for 40 CFR 63 subpart Q-National Emission Standards for Industrial Process Cooling Towers.

Authority for Requirement: Polk County AQD Construction Permit #2527

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 02-G1, 02-G2, 02-G3, 02-G8, 02-G9, 02-G10, 02-G11, 02-G12, 02-G13, 02-G17, 02-G18, 02-G19, 02-G20, 02-G21, 02-G24, 02-G26, 02-G27, 02-G28, 02-G29, 02-G30, 02-G31, 02-G32, 02-G33, 02-G34, 02-G35, 02-G36, 02-G37, 12-G01, 12-G02, 12-G03, 12-G04, 12-G05, and 12-G06

Associated Equipment:

Emission Point ID Number	Emission Unit ID Number	Emission Unit Description	Material Processed	CE ID Number	CE Description
02-G1	02-G1	CNC Doffer Grinder	Plastic	02-G1	Torit Model 7080 Dry Fabric Filter Dust Collector
02-G2	02-G2A	Cincinnati Centerless Grinder	Metal	02-G2	Torit Model W50-25 Dry Fabric Filter Dust Collector
	02-G2B	Cincinnati Centerless Grinder			
02-G3	02-G3B	Cincinnati Centerless Grinder	Metal	02-G3	Torit Model W50-25 Dry Fabric Filter Dust Collector
	02-G3C	Cincinnati Centerless Grinder			
02-G8	02-G8	Mori Seiki DMG Lathe	Metal	02-G8	Mist Blaster Particulate Filter
02-G9	02-G9	Mori Seiki DMG Lathe	Metal	02-G9	Mist Blaster Particulate Filter
02-G10	02-G10	Mori Seiki NHX6300DCG11	Metal	02-G10	Torit Model 7080 Dry Fabric Filter Dust Collector
02-G11	02-G11	Mori Seiki NHX6300DCG11	Metal	02-G11	Mist Blaster
02-G12	02-G12	Mori Seiki NHX6300DCG11	Metal	02-G12	Mist Blaster
02-G13	02-G13	Mori Seiki NHX6300DCG11	Metal	02-G13	Mist Blaster
02-G17	02-G17	2 Sleeve Presses	Metal	02-G17	Donaldson Torit
02-G18	02-G18	Ajax Tocco	Metal	02-G18	Donaldson Torit
02-G19	02-G19	Mori Seiki NHX6300	Metal	02-G19	Mist Blaster
02-G20	02-G20	Mori Seiki NVX7000	Metal	02-G20	Mist Blaster
02-G21	02-G21	Mori NZX2000 CNC Machine	Metal	02-G21	Mist Collector LNS Fox WS 2-700 with HEPA filter
02-G24	02-G24	Drum Cell (Asset # 155837)	Metal	02-G24	Donaldson Mist Collector WSO 25-2 1 with HEPA filter
	02-G25	Spider Cell (Asset # 179368)			

Emission Point ID Number	Emission Unit ID Number	Emission Unit Description	Material Processed	CE ID Number	CE Description
02-G26	02-G26	DMG Mori NLX2500SMC CNC Lathe	Metal	02-G26	Mist Collector LNS Fox WS 2-700 SHT
02-G27	02-G27	DMG Mori NLX2500SMC CNC Lathe	Metal	02-G27	Mist Collector LNS Fox WS 2-700
02-G28	02-G28	DMG Mori NLX2500SMC CNC Lathe	Metal	02-G28	Mist Collector LNS Fox WS 2-700
02-G29	02-G29	Okuma MB-4000H	Metal	02-G29	LNX WS2 700 Mist Eliminator
02-G30	02-G30	Okuma MB-4000H	Metal	02-G30	LNX WS2 700 Mist Eliminator
02-G31	02-G31	DMG Mori NLX2500 700	Metal	02-G31	LNX WS2 700 Mist Eliminator
02-G32	02-G32	DMG Mori NLX2500 700	Metal	02-G32	LNX WS2 700 Mist Eliminator
02-G33	02-G33	DMG Mori NLX6300	Metal	02-G33	DMG Mori zeroFOG Mist Collector
02-G34	02-G34	Vertical Milling Center	Metal	02-G34	LNS WS2-1000 Mist Eliminator
02-G35	02-G35	DMG Mori NLX2500 700 Machining Center	Metal	02-G35	DMG Mori Mist Collector zeroFOG
02-G36	02-G36	DMG Mori NLX2500 700 Machining Center	Metal	02-G36	DMG Mori Mist Collector zeroFOG
02-G37	02-G37	Dehoff 1060T Twin Spindle Gun Drill	Metal	02-G37	Donaldson Mist Collector WSO 25-1 with HEPA filter
12-G01	12-G01	Blanchard Surface Grinder	Metal	12-G01	Mist Collector, Galileo Plus HEPA filter
12-G02	12-G02	Hardinge Conquest CNC Lathe	Metal	12-G02	Mist Collector, Galileo Plus HEPA filter 250P
12-G03	12-G03	Haas VF2 CNC Mill	Metal	12-G03	Mist Collector, Galileo Plus HEPA filter 1000P
12-G04	12-G04	Hass ST25Y CNC Lathe	Metal	12-G04	Mist Collector, Galileo Plus HEPA filter 1000P
12-G05	12-G05	Haas VF11 CNC Mill	Metal	12-G05	Mist Collector, Galileo Plus HEPA filter 3000P
12-G06	12-G06	Haas VF8 CNC Mill	Metal	12-G06	Mist Collector, Galileo Plus HEPA filter 3000P

Applicable Requirements

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

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

Emission Point	Pollutant	Limit
02-G1	Opacity	<20%
	PM	0.10 gr/dscf
02-G2, 02-G3, 02-G8, 02-G9, 02-G10, 02-G11, 02-G12, 02-G13, 02-G17, 02-G18, 02-G19, 02-G20, 02-G21, 02-G24, 02-G26, 02-G27, 02-G28, 02-G29, 02-G30, 02-G31, 02-G32, 02-G33, 02-G34, 02-G35, 02-G36, 02-G37 12-G01, 12-G02, 12-G03, 12-G04, 12-G05, 12-G06	Opacity	<20%
	PM	0.05 gr/dscf

Authority for Requirement: 567 IAC 23.3(2) "a"
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-14(b)
567 IAC 23.4(6)
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-16(l)
Polk County AQD Construction Permit #2122 Modified #11

Operational Limits & Requirements

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

Process Throughput, Work Practice, and Recordkeeping Requirements:

- For control equipment (CE): 02-G1, 02-G2, 02-G3, 02-G8, 02-G9, 02-G10, 02-G11, 02-G12, 02-G13, 02-G17, 02-G18, 02-G19, 02-G20, 02-G21, 02-G24, 02-G26, 02-G27, 02-G28, 02-G29, 02-G30, 02-G31, 02-G32, 02-G33, 02-G34, 02-G35, 02-G36, 02-G37, 12-G01, 12-G02, 12-G03, 12-G04, 12-G05, and 12-G06
    - The owner or operator shall maintain control equipment according to the manufacturer's specifications.
    - The owner or operator shall maintain documentation of all maintenance conducted on the control equipment.

Authority for Requirement: Polk County AQD Construction Permit #2122 Modified #11

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

Discharge Style: Fugitive (Internally Vented)
Authority for Requirement: Polk County AQD Construction Permit #2122 Modified #11

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: LCf

Associated Equipment:

Emission Point ID Number	Emission Unit ID Number	Emission Unit Description	CE ID Number	CE Description
LCf	01-LC1	Trumpf 5000 Watt Laser Cutter	01-LC1	Dust Separator
	01-LC2	Trumpf 5000 Watt Laser Cutter	01-LC2	Dust Separator
	01-LC3	Trumpf 5000 Watt Laser Cutter	01-LC3	Dust Separator
	01-LC4	Trumpf 5000 Watt Laser Cutter	01-LC4	Dust Separator
	01-LC5	Trumpf 6000 Watt Laser Cutter	01-LC5	Dust Separator
	01-LC6	Trumpf 5000 Watt Laser Cutter	01-LC6	Dust Separator
	01-LC9	Trumpf 5000 Watt Laser Cutter	01-LC9	Dust Separator
	01-LC10	Trumpf 5000 Watt Laser Cutter	01-LC10	Dust Separator
	02-LC5	Trumpf 5000 Watt Laser Cutter	02-LC5	Dust Separator
	26-LC6	Trumpf Trulaser Tube 7000 T12	26-LC6	Dry Filters
	01-LC12	Trumpf 8000 Watt Laser Cutter	01-LC12	Dust Separator
	01-LC13	Trumpf 8000 Watt Laser Cutter	01-LC13	Dust Separator
	01-LC14	Trumpf 12kW Laser Cutter	01-LC14	Dust Separator
	01-LC15	Trumpf 12kW Laser Cutter	01-LC15	Dust Separator
	01-LC16	Trumpf 12kW Laser Cutter	01-LC16	Dust Separator
	01-LC17	Trumpf 12kW Laser Cutter	01-LC17	Dust Separator
	01-LC18	Trumpf 12kW Laser Cutter	01-LC18	Dust Separator
	01-LC19	Trumpf 12kW Laser Cutter	01-LC19	Dust Separator

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: <20%
Authority for Requirement: Polk County Board of Health Rules and Regulations Chapter V, Article IV, Section 5-9
Polk County AQD Construction Permit #2069 Modified #11

Pollutant: Particulate Matter (PM)
Emission Limits: 0.05 gr/dscf
Authority for Requirement: 567 IAC 23.4(6)
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-16(l)
Polk County AQD Construction Permit #2069 Modified #11

Operational Limits & Requirements

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

Process Throughput, Work Practice, and Recordkeeping Requirements:

A. At all times, the owner or operator must operate and maintain the affected source, including associated air pollution control equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.
B. The control equipment (listed in the table above) shall be used at all times while the laser cutters (listed in the table above) are in operation.
    1) Facility shall perform routine maintenance and inspections as per manufacturer's guidance for the control equipment.
    2) Facility shall maintain records of all maintenance activities on control equipment.

Authority for Requirement: Polk County AQD Construction Permit #2069 Modified #11

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Discharge Style: Fugitive (Internally Vented)
Authority for Requirement: Polk County AQD Construction Permit #2069 Modified #11

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Group Source: Coating Operations

Associated Equipment:

Emission Point ID Number	Emission Unit ID Number	Emission Unit Description	Rated Capacity	CE ID Number	CE Description
01-TU1 01-TU2	01-TU	Vehicle Touch-Up Paint Booth	1 spray gun, each at 1.6 gallons/hr	CE 01-TU1	Dry Fabric Filters
				CE 01-TU2	Dry Fabric Filters
02-18 02-19 02-20 02-21 02-22 02-23 02-24 02-25 02-26 02-31 02-61	02-30	D-19 E-Coat Dip Tank	14 ft/min	N/A	N/A
	02-31	(5) 3.0 MMBtu/hr Drying Burners	15 MMBtu/hr Natural Gas	N/A	N/A
03-03	03-03	D-20A Touch-Up Paint Booth	1 spray gun, each at 1.6 gallons/hr	03-03	Dry Filters
03-06 03-07 03-08 03-15 03-20 04-01	03-04	D-20A Black Paint Dip Tank	36 ft/min	N/A	N/A
03-21 03-22 03-24 03-25 03-36 03-37	03-21	D-20A North and South Paint Booths	4 spray guns, each at 9.375 gallons/hr	03-21	Dry Filters
03-21 03-22 03-24 03-25	03-25	2.6 MMBtu/hr Burner	2.6 MMBtu/hr Natural Gas	N/A	N/A
	03-AMUN	7.348 MMBtu/hr Air Makeup Unit	7.348 MMBtu/hr Natural Gas	N/A	N/A
	03-AMUS	7.348 MMBtu/hr Air Makeup Unit	7.348 MMBtu/hr Natural Gas	N/A	N/A
03-06 03-07 03-08 03-15	03-AMUV	1.944 MMBtu/hr Air Makeup Unit	1.944 MMBtu/hr Natural Gas	N/A	N/A

Emission Point ID Number	Emission Unit ID Number	Emission Unit Description	Rated Capacity	CE ID Number	CE Description
03-37 04-01					
12-05	12-05	D-51 Maintenance Booth	1 spray gun, each at 5.6 gallons/hr	12-05	Dry Filters

Applicable Requirements

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

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

Emission Limits for Coating Operations:

Emission Point	Pollutant	Emission Limits	Reference/Basis
01-TU1 01-TU2	Particulate Matter (PM)	0.01 gr/dscf	Chapter V, Article VI, Section 5-16(m)
		0.36 lb/hr(2)	NA
	Opacity	<20% (1)	Chapter V, Article IV, Section 5-9
03-03	Particulate Matter (PM)	0.01 gr/dscf	Chapter V, Article VI, Section 5-16(m)
		0.28 lb/hr	NA
	Opacity	<20% (1)	NA
03-21 03-22 03-24 03-25	Particulate Matter (PM)	0.01 gr/dscf	Chapter V, Article VI, Section 5-16(m)
		5.15 lb/hr(3)	NA
	Opacity	<20%(1)	Chapter V, Article IV, Section 5-9
12-05	Particulate Matter (PM)	0.01 gr/dscf	Chapter V, Article VI, Section 5-16(m)
	Opacity	<20%.(1)	Chapter V, Article IV, Section 5-9
See footnote (4)	Volatile Organic Compounds (VOC)	See Plant-Wide Conditions	PSD Synthetic Minor
	Single HAP	See Plant-Wide Conditions	NESHAP Area Source
	Total HAP	See Plant-Wide Conditions	NESHAP Area Source

(1)An exceedance of the indicator opacity of 10% will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Local Program may require additional proof to demonstrate compliance (e.g., stack testing).
(2)Emission limit is a combined limit for EP 01-TU1 and -TU2.
(3)Emission limit is a combined limit for EP 03-21, 03-22, 03-24 and 03-25.
(4)The emission limit is a combined limit for the following emission points: 01-TU1, 01-TU2, 02-18, 02-19, 02-20, 02-21, 02-22, 02-23, 02-24, 02-25, 02-26, 02-31, 02-61, 03-03, 03-06, 03-07, 03-08, 03-15, 03-20, 03-21, 03-21, 03-22, 03-24, 03-25, 03-36, 03-37, 04-01, and 12-05.

Emission Limits for Natural Gas Combustion Sources(1):

Pollutant: Opacity
Emission Limit: <20%
Authority for Requirement: Polk County Board of Health Rules and Regulations Chapter V, Article IV, Section 5-9
Polk County AQD Construction Permit #2233 Modified #8

Pollutant: Particulate Matter (PM)
Emission Limits: 0.10 gr/dscf
Authority for Requirement: 567 IAC 23.3(2) “a”
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-14(b)
Polk County AQD Construction Permit #2233 Modified #8

Pollutant: Sulfur Dioxide (SO_2)
Emission Limits: 500 ppmv
Authority for Requirement: 567 IAC 23.3(3) “e”
Polk County Board of Health Rules and Regulations Chapter V, Article IX, Section 5-27(5)
Polk County AQD Construction Permit #2233 Modified #8

(1)Emission limits are for each emission unit listed (02-31, 03-25, 03-AMUN, 03-AMUS, 03-AMUV) individually, not combined.

Operational Limits & Requirements

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

Process Throughput, Work Practice, and Recordkeeping Requirements:

- See Plant-Wide Conditions.

NOTE: The absence of the inclusion of any NESHAP requirements as part of this permit does not relieve the owner or operator from any obligation to comply with all applicable NESHAP conditions.

Authority for Requirement: Polk County AQD Construction Permit #2233 Modified #8

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Emission Point	Stack Height (ft, from the ground)	Stack Opening, (inches, dia.)	Exhaust Flow Rate (scfm)	Exhaust Temperature (ºF)	Discharge Style
02-18	60	40, Circular	19,273	90	Vertical, unobstructed
02-19	60	40, Circular	19,273	90	Vertical, unobstructed
02-20	60	33, Circular	8,155	90	Vertical, unobstructed
02-21	60	33, Circular	8,155	90	Vertical, unobstructed
02-22	60	10, Circular	1,566	180	Vertical, unobstructed
02-23	60	10, Circular	1,566	180	Vertical, unobstructed
02-24	60	10, Circular	1,566	180	Vertical, unobstructed
02-25	60	10, Circular	1,566	180	Vertical, unobstructed
02-26	60	10, Circular	1,566	180	Vertical, unobstructed
02-31	36	33, Circular	11,258	75	Vertical, unobstructed
02-61	38	46, Circular	21,101	75	Vertical, unobstructed
03-03	35	40, Circular	30,000	70	Vertical, unobstructed
03-06	38	36 x 24, Rectangular	16,601	150	Horizontal
03-07	39	32, Circular	4,669	180	Vertical, obstructed
03-08	38	15, Circular	4,669	180	Vertical, unobstructed
03-15	38	32, Circular	18,667	150	Vertical, unobstructed
03-20	46	36, Circular	18,667	150	Vertical, unobstructed
03-21	46	52, Circular	42,000	70	Vertical, unobstructed
03-22	46	52, Circular	42,000	70	Vertical, unobstructed
03-24	46	52, Circular	42,000	70	Vertical, unobstructed
03-25	46	52, Circular	42,000	70	Vertical, unobstructed
03-36	15	18, Circular	780	70	Horizontal
03-37	15	18, Circular	780	70	Horizontal
12-05	25	36, Circular	13,087	75	Vertical, unobstructed
04-01	38	32, Circular	5,638	180	Vertical, unobstructed
01-TU1	40	48, Circular	28,000	70	Vertical, unobstructed
01-TU2	40	48, Circular	28,000	70	Vertical, unobstructed

Authority for Requirement: Polk County AQD Construction Permit #2233 Modified #8

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

Monitoring Requirements

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

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

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

D-20A Touch-up Paint Booth and D-51 Maintenance Booth:

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.

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

D-20A North and South Paint Booth Compliance Assurance Monitoring (CAM) Plan:

Paint Filter Media Parameters

- Associated Emission Units: 03-21
- Associated Emission Points: 03-21, 03-22, 03-24, 03-25, 03-36, 03-37
- Pollutants Controlled: $PM_{2.5}$/PM_{10}/PM

Applicable Requirements

Pollutant: $PM_{2.5}$/PM_{10}/PM
Emission Limits: 5.15 lb/hr, 0.01 gr./dscf
Authority for Requirement: Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-16
Polk County AQD Construction Permit #2233 Modified #8

Monitoring Approach

General Monitoring Guidelines

- CAM involves the observation of control equipment compliance indicators, such as differential pressure. This plan defines the acceptable range for this indicator. CAM also includes control equipment maintenance and inspections. Maintenance and inspections that will facilitate consistent control equipment operations are identified in this plan.
- Monitoring is not required during periods of time greater than one day in which the source does not operate.

Excursion from Compliance Indicators

An excursion occurs when an observed compliance indicator (differential pressure) is outside of its defined acceptable indicator range. The differential pressure shall be documented. In the event that the differential pressure is not within the acceptable range, JDDMW will implement corrective action as soon as possible. If corrective action does not return the within eight hours then the event will be documented as an excursion. An excursion does not necessarily indicate a violation of applicable permit terms, conditions, and/or requirements. However, an excursion is a deviation that must be reported in the Semi-Annual Monitoring Report and Annual Compliance Certification Report.

Corrective actions will begin as soon as possible, but no later than eight hours from the observation of the excursion. (Abnormal conditions discovered through equipment inspection and maintenance also require implementation of remediation within eight hours.)

- If corrective actions do not return the compliance indicator to its defined acceptable, JDDMW will demonstrate compliance with the PM/PM10/PM2.5 limit by conducting source testing approved by the Department within 90 days of the excursion.
- If the test demonstrates compliance with emission limits, JDDMW will determine new indicator ranges for monitoring based on the testing results.
- If the test demonstrates noncompliance with emission limits, JDDMW will, within 60 days, propose a schedule to implement corrective action to bring the source into compliance and conduct source testing to demonstrate compliance.
- Report monitoring or other deviations (operating conditions, emission limits, or reporting requirements) in DNR semi-annual monitoring and annual compliance certification reports.

Compliance Indicator Ranges

- Exhaust Stack Differential Pressures
    - Acceptable pressure drop indicator ranges: DP between 0.0 and 3.0 inches of water across the filters as indicated by the differential pressure gauges or the online monitoring system.

Monitoring Methods

- Daily (when in operation)
    - Complete gauge readings of differential pressures across the filters. These readings will be documented. The readings will be checked once per day utilizing the online monitoring system or by physically assessing the gauges. Readings outside of the normal operating ranges will be addressed in a timely manner.
- Annually
    - Inspect the differential pressure gauges and calibrate as needed.

Recordkeeping and Reporting (Verification of Operational Status)

- JDDMW will maintain records of the following:
    - Daily logs or "e" records of differential pressures.
    - Record any excursions and corrective actions resulting from compliance indicators and inspections and maintenance.
- Records will be kept for at least five years and be available upon request.

Quality Control

- The filtration system and its monitoring equipment will be operated and maintained according to good engineering practices and/or as outlined in the above monitoring requirements.
- JDDMW will maintain an adequate inventory of spare parts.

Data Collection Procedures

- Differential pressure readings will be recorded daily and maintained in the environmental office or by "e" log.
- Maintenance personnel record all maintenance/inspections performed on the filtration system and actions resulting from the inspections in an online management system like SAP.

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Numbers: Weld01f, Weld02f, Weld03f

Emission Point ID Number	Emission Unit ID Number	Emission Unit Description	Raw Material/Fuel:	Rated Capacity
Weld01f	Weld01	E70S FCAW Electrode Welder	70S Steel Welding Wire/Rod	2,800,000 lb/yr
Weld02f	Weld02	General FCAW Welder	ER4043 Aluminum Welding Wire/Rod	10,000 lb/yr
Weld03f	Weld03	E70T FCAW Electrode Welder	70T Welding Wire/Rod	35,000 lb/hr

Applicable Requirements

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

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

Emission Point	Emission Unit	$PM/PM_{10}/PM_{2.5}$ Limit (TPY)	Additional Limits	Reference
Weld01f	Weld01	7.28[(1)]	0.10 gr/dscf	Chapter V, Article VI, Section 5-14
Weld02f	Weld02	0.05[(2)]		
Weld03f	Weld03	0.26[(3)]		

[(1)]Based on a requested material usage limit of 2,800,000 pounds of 70S Weld Wire/Rod used per 12 month rolling period.
[(2)]Based on a requested material usage limit of 10,000 pounds of ER4043 Weld Wire/Rod used per 12 month rolling period.
[(3)]Based on a requested material usage limit of 35,000 pounds of 70T Weld Wire/Rod used per 12 month rolling period.

Authority for Requirement: Polk County AQD Construction Permit #2596 Modified

Operational Limits & Requirements

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

Process Throughput:

- The owner or operator shall not exceed 2,800,000 pounds of welding wire/rod with emission factors equal to or less than that of E70S per rolling 12-month period, rolled monthly.
- The owner or operator shall not exceed 10,000 pounds of weld wire/rod ER4043 per rolling 12-month period, rolled monthly.
- The owner or operator shall not exceed 35,000 pounds of weld wire/rod with emission factors equal to or less than that of 70T, except for ER4043 and E70S Wires, per rolling 12-month period, rolled monthly.

Work Practice Standards:

- The facility is allowed but not required to use a fume collector at or near the welding operation. The facility claims no collection or control efficiency for these units; therefore, they are not required to be permitted.
- This Permit does not include non-production weld wire.
- Polk County AQD recognizes the portable nature of the welding equipment. The owner or operator is allowed to install new, relocate, and/or remove GMAW/SMAW/FCAW welding equipment within the plant. These changes shall not be subject to the Polk County AQD notification and reporting requirements for moving equipment within the plant for GMAW/SMAW/FCAW welding equipment which is installed, relocated or retired within the plant.

Reporting & Recordkeeping:

- On a monthly basis the facility shall record the amount of weld wire/rod used for each type of the three classes of wire/rod listed above. The facility shall calculate and record on a monthly basis the 12-month rolling total for each of the following three classes of weld wire/rod: E70S, ER4043, and weld wire/rod with emission factors equal to or less than and 70T (except for E70S, ER4043).
- All records shall be kept on site for a minimum period of five years and shall be made available to representatives of this department upon request.

Authority for Requirement: Polk County AQD Construction Permit #2596 Modified

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Discharge Style: Fugitive (Internally Vented)
Authority for Requirement: Polk County AQD Construction Permit #2596 Modified

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: T-59

Emission Unit vented through this Emission Point: T-59
Emission Unit Description: B14 Unleaded Gas Storage Tank
Raw Material/Fuel: Unleaded gasoline
Rated Capacity: 6,000 gallons

Applicable Requirements

Operational Limits & Requirements

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

NESHAP:
This unit is subject to 40 CFR Part 63 Subpart CCCCCC [National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities, 40 CFR §63.11110 – 40 CFR §63.11132].

This unit has a monthly throughput of less than 10,000 gallons. Per Sec. 63.11111(b), if a Gasoline Dispensing Facility (GDF) has a monthly throughput of less than 10,000 gallons of gasoline, the facility must comply with the requirements of Sec. 63.11116.

Attached in Appendix A to this permit, and hereby incorporated by reference is the web link to 40 CFR 63 Subpart CCCCCC.

Authority for Requirement: 40 CFR 63 Subpart CCCCCC
567 IAC 23.1(4) "ec"
Polk County Board of Health Rules and Regulations Chapter V, Article VIII, Section 5-20(cccccc)

Reporting & Recordkeeping:

- EU T-59 monthly throughput records shall be maintained on site for a minimum period of five years and be made available to Polk County Air Quality personnel upon request.

Authority for Requirement: 567 IAC 24.108(3)

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

Stack Height, (from the ground): 20
Stack Opening, (inches, dia.): 8, Circular
Exhaust Temperature (°F): Ambient
Discharge Style: Obstructed
Authority for Requirement: 567 IAC 24.108(3)

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 28-MB

Emission Unit vented through this Emission Point: 28-MB
Emission Unit Description: EcoQuip Media Blast
Raw Material/Fuel: Blast Media
Rated Capacity: 125 lbs./hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: <20%
Authority for Requirement: Polk County Board of Health Rules and Regulations Chapter V, Article IV, Section 5-9
Polk County AQD Construction Permit #2867

Pollutant: Particulate Matter (PM)
Emission Limits: 5.70 lbs./hr(1) and 1.48 TPY(2)
Authority for Requirement: Polk County AQD Construction Permit #2867

Pollutant: Particulate Matter (PM_{10})
Emission Limits: 0.80 lbs./hr(1) and 0.21 TPY(2)
Authority for Requirement: Polk County AQD Construction Permit #2867

Pollutant: Particulate Matter ($PM_{2.5}$)
Emission Limits: 0.10 lbs./hr(1) and 0.03 TPY(2)
Authority for Requirement: Polk County AQD Construction Permit #2867

(1)Based on AP-42 Table 13.2.6-1 emission factors
(2)Based on requested limit of 65,000 pounds of blast media per 12-month period, rolled monthly.

Authority for Requirement: Polk County AQD Construction Permit #2867

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

Process Throughput:

- The owner/operator shall not exceed 65,000 lbs of blast media usage per 12 month period, rolled monthly.

Work Practice Standards:

- Adequate containment shall be employed during blasting at all times per Polk County Board of Health Rules and Regulations Chapter V, Article IX, Section 5-23(3)

Reporting & Recordkeeping:

- The owner/operator shall record on a monthly basis the amount of blast media used. Said record shall include the 12 month rolling total, rolled monthly of blast media used.
- Records shall be kept on site for a minimum period of 5 years and shall be made available to representatives of this agency upon request.

Authority for Requirement: Polk County AQD Construction Permit #2867

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Discharge Style: Fugitive (Internally Vented)
Authority for Requirement: Polk County AQD Construction Permit #2867

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 28-C1

Emission Unit vented through this Emission Point: 28-C1
Emission Unit Description: Kubota Model 3800 Diesel Fired Non-Emergency Engine/Compressor
Raw Material/Fuel: Diesel
Rated Capacity: 74 kW (99.2 bhp)

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: <20%
Authority for Requirement: Polk County Board of Health Rules and Regulations Chapter V, Article IV, Section 5-9
Polk County AQD Construction Permit #2868 Modified

Pollutant: Particulate Matter (PM)
Emission Limits: 0.54 TPY and 0.10 gr/dscf
Authority for Requirement: Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-14(b)
Polk County AQD Construction Permit #2868 Modified

Pollutant: Particulate Matter (PM_{10})
Emission Limits: 0.54 TPY
Authority for Requirement: Polk County AQD Construction Permit #2868 Modified

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit: 0.01 TPY and 0.5 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(3) "b"
Polk County Board of Health Rules and Regulations Chapter V, Article IX, Section 5-27(2)(b)
Polk County AQD Construction Permit #2868 Modified

Pollutant: Nitrogen Oxide (NO_x)
Emission Limits: 4.20 TPY
Authority for Requirement: Polk County AQD Construction Permit #2868 Modified

Pollutant: Volatile Organic Compounds (VOC)
Emission Limits: 0.42 TPY
Authority for Requirement: Polk County AQD Construction Permit #2868 Modified

Pollutant: Carbon Monoxide (CO)
Emission Limits: 3.57 TPY and 5.0 gram/kW-hr
Authority for Requirement: 40 CFR 60 Subpart IIII
567 IAC 23.1(2) "yyy"
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-16(n)(77)
Polk County AQD Construction Permit #2868 Modified

Pollutant: Hazardous Air Pollutants (HAP)
Emission Limits: 0.01 TPY
Authority for Requirement: Polk County AQD Construction Permit #2868 Modified

Operational Limits & Requirements

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

NSPS Requirements

The owner and operator shall comply with all applicable requirements of 40 CFR 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.

- §60.4204(b) owners and operators must comply with the emission standards in §60.4201
- §60.4201(a) must certify their engine to the emission standards in 40 CFR 1039, Appendix I.
- The emission standards that the engine must be certified by the manufacturer to meet are:

Pollutant	Emission Standard	Regulatory Basis
Particulate Matter (PM)	0.40 grams/kW-hr	40 CFR 1039, Appendix I, Table 3
NO_x + NMHC	4.7 grams/kW-hr	
Carbon Monoxide (CO)	5.0 grams/kW-hr	

- §60.4206 owners and operators must achieve and maintain the stationary CI ICE according to manufacturer's written instructions for life of the engine as required in §§60.4204 and 60.4205.
- §60.4207 shall meet the fuel requirements.
- §60.4209 shall meet the monitoring requirements set forth in §60.4209 and §60.4211
- §60.4211(a)(1) operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions.
- §60.4211(a)(2) change only those emission-related settings that are permitted by the manufacturer
- §60.4211(a)(3) Meet the requirements of 40 CFR part 1068, as they apply to you.
- §60.4211(c) Must purchase an engine an engine certified to the emission standards in §60.4204 (b) or §60.4205(b) or (c) as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in paragraph (g) of this section.
- §60.4212 any testing shall be done in compliance with the methods and procedures of this section.
- §60.4214 shall comply with notification, reporting and recordkeeping requirements.

NOTE: The absence of the inclusion of any NSPS requirements as part of this permit does not relieve the owner or operator from any obligation to comply with all applicable NSPS conditions.

Authority for Requirement: 40 CFR 60 Subpart IIII
567 IAC 23.1(2) "yyy"
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-16(n)(77)
Polk County AQD Construction Permit #2868 Modified

NESHAP Requirements:
The owner or operator shall comply with all applicable requirements of 40 CFR 63 subpart ZZZZ -National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines:

- Per §63.6590(c) the facility satisfies all requirements of this subpart by complying with 40 CFR 60 subpart IIII.

NOTE: The absence of the inclusion of any NESHAP requirements as part of this permit does not relieve the owner or operator from any obligation to comply with all applicable NESHAP conditions.

Authority for Requirement: 40 CFR 63 Subpart ZZZZ
567 IAC 23.1(4) "cz"
Polk County Board of Health Rules and Regulations Chapter V, Article VIII, Section 5-20(zzzz)
Polk County AQD Construction Permit #2868 Modified

Additional Requirements:

- Sulfur content of fuel combusted in this unit shall be limited to 15 ppm (wt%).
- Fuel supplier certification shall be kept on site for each delivery of fuel oil purchased.
- All records shall be kept on site for a minimum period of five years and be made available to Polk County Air Quality personnel upon request.

Authority for Requirement: Polk County AQD Construction Permit #2868 Modified

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

Stack Height, (from the ground): 5
Stack Opening, (inches, dia.): 3, Circular
Exhaust Flow Rate (scfm): Variable
Exhaust Temperature (°F): 870
Discharge Style: Vertical w/unobstructed raincap
Authority for Requirement: Polk County AQD Construction Permit #2868 Modified

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: WH-01

Emission Unit vented through this Emission Point: WH-01
Emission Unit Description: Kohler Model 400 REZXD Emergency Generator with Doosan Model D219L Natural Gas Engine
Raw Material/Fuel: Natural Gas
Rated Capacity: 605 hp (451 kW)

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: <20%
Authority for Requirement: Polk County Board of Health Rules and Regulations Chapter V, Article IV, Section 5-9
Polk County AQD Construction Permit #3547

Pollutant: Particulate Matter (PM)
Emission Limits: 0.10 lbs./hr and 0.03 TPY and 0.10 gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a"
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-14(b)
Polk County AQD Construction Permit #3547

Pollutant: Particulate Matter (PM_{10})
Emission Limits: 0.10 lbs./hr and 0.03 TPY
Authority for Requirement: Polk County AQD Construction Permit #3547

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit: 0.001 TPY and 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"
Polk County Board of Health Rules and Regulations Chapter V, Article IX, Section 5-27(5)
Polk County AQD Construction Permit #3547

Pollutant: Nitrogen Oxide (NO_x)
Emission Limits: 2.69 lb./hr and 0.68 TPY 1.0 gram/HP-hr
Authority for Requirement: 40 CFR 60 Subpart JJJJ
567 IAC 23.1(2) "zzz"
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-16(n)(78)
40 CFR 63 Subpart ZZZZ
567 IAC 23.1(4) "cz"
Polk County Board of Health Rules and Regulations Chapter V, Article VIII, Section 5-20(zzzz)
Polk County AQD Construction Permit #3547

Pollutant: Volatile Organic Compounds (VOC)
Emission Limits: 0.15 lb./hr and 0.04 TPY and 0.7 gram/HP-hr
Authority for Requirement: 40 CFR 60 Subpart JJJJ
567 IAC 23.1(2) "zzz"
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-16(n)(78)
40 CFR 63 Subpart ZZZZ
567 IAC 23.1(4) "cz"
Polk County Board of Health Rules and Regulations Chapter V, Article VIII, Section 5-20(zzzz)
Polk County AQD Construction Permit #3547

Pollutant: Carbon Monoxide (CO)
Emission Limits: 4.35 lb./hr and 1.09 TPY and 2.0 gram/HP-hr
Authority for Requirement: 40 CFR 60 Subpart JJJJ
567 IAC 23.1(2) "zzz"
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-16(n)(78)
40 CFR 63 Subpart ZZZZ
567 IAC 23.1(4) "cz"
Polk County Board of Health Rules and Regulations Chapter V, Article VIII, Section 5-20(zzzz)
Polk County AQD Construction Permit #3547

Operational Limits & Requirements

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

NSPS Requirements

The owner and operator shall comply with all applicable requirements of 40 CFR 60 Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines.

- The owner or operator must comply with the emission standards in Table 1 of this subpart (40 CFR 60 subpart JJJJ) per §60.4233(e).
  The emission standards that the engine must be certified by the manufacturer to meet are:

Pollutant	Emission Standard		Regulatory Basis
	g/HP-hr	ppmvd at 15% O_2	
NO_x	2.0	160	40 CFR 60 JJJJ Table 1
CO	4.0	540	
VOC	1.0	86	

- The owner or operator must operate and maintain stationary SI ICE that achieve the emission standards as required in §60.4233 over the entire life of the engine.
- §60.4237 Owners and operators shall comply with monitoring requirements§60.4237.
- §60.4243 Owners and operators shall comply with compliance requirements by:
  - (a) If you are an owner or operator of a stationary SI internal combustion engine that is manufactured after July 1, 2008, and must comply with the emission standards specified in §60.4233(a) through (c), you must comply by purchasing an engine certified to the emission standards in §60.4231(a) through (c), as applicable, for the same engine class and maximum engine power. In addition, you must meet one of the requirements specified in (a)(1) and (2) of this section.
    - (1) If you operate and maintain the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions, you must keep records of conducted maintenance to demonstrate compliance, but no performance testing is required if you are an owner or operator. You must also meet the requirements as specified in 40 CFR part 1068, subparts A through D, as they apply to you. If you adjust engine settings according to and consistent with the manufacturer's instructions, your stationary SI internal combustion engine will not be considered out of compliance.
    - (2) If you do not operate and maintain the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions, your engine will be considered a non-certified engine, and you must demonstrate compliance according to (a)(2)(i) through (iii) of this section, as appropriate.
      - (iii) If you are an owner or operator of a stationary SI internal combustion engine greater than 500 HP, 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 an initial performance test within 1 year of engine startup and conduct

subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance.

- (b) If you are an owner or operator of a stationary SI internal combustion engine and must comply with the emission standards specified in §60.4233(d) or (e), you must demonstrate compliance according to one of the methods specified in paragraphs (b)(1) and (2) of this section.
  - (1) Purchasing an engine certified according to procedures specified in this subpart, for the same model year and demonstrating compliance according to one of the methods specified in paragraph (a) of this section.
- (d) If you own or operate an emergency stationary ICE, you must operate the emergency stationary ICE according to the requirements in paragraphs (d)(1) through (3) of this section. In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (d)(1) through (3) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (d)(1) through (3) of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.
  - (1) There is no time limit on the use of emergency stationary ICE in emergency situations.
  - (2) You may operate your emergency stationary ICE for any combination of the purposes specified in paragraphs (d)(2)(i) through (iii) of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (d)(3) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (d)(2).
    - (i) Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year.
  - (3) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (d)(2) of this section. Except as provided in paragraph (d)(3)(i) of this section, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency

demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

- (i) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:
  - (A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator;
  - (B) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.
  - (C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.
  - (D) The power is provided only to the facility itself or to support the local transmission and distribution system.
  - (E) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

- The owner or operator shall comply with the notification, reporting and recordkeeping requirements per §60.4245:
  Owners or operators of stationary SI ICE must meet the following notification, reporting and recordkeeping requirements.
  - (a) Owners and operators of all stationary SI ICE must keep records of the information in paragraphs (a)(1) through (4) of this section.
    - (1) All notifications submitted to comply with this subpart and all documentation supporting any notification.
    - (2) Maintenance conducted on the engine.
    - (3) If the stationary SI internal combustion engine is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR parts 90, 1048, 1054, and 1060, as applicable.
- §60.4248 Owners and operators shall operate the engine as an emergency stationary internal combustion engine as defined in this subpart.
- The owner or operator shall comply with the General Provisions in §§60.1 through 60.19 listed in Table 3 which apply to you per §60.4246.

Authority for Requirement: 40 CFR 60 Subpart JJJJ
567 IAC 23.1(2) "zzz"
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-16(n)(78)
Polk County AQD Construction Permit #3547

NESHAP Requirements

The owner or operator shall comply with all applicable requirements of 40 CFR 63 subpart ZZZZ -National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines:

- Per §63.6590(c) the facility satisfies all requirements of this subpart by complying with 40 CFR 60 subpart JJJJ.

Authority for Requirement: 40 CFR 63 Subpart ZZZZ
567 IAC 23.1(4) "cz"
Polk County Board of Health Rules and Regulations Chapter V, Article VIII, Section 5-20(zzzz)
Polk County AQD Construction Permit #3547

Additional Requirements

- The owner or operator shall operate engine in a manner consistent with the definition of an Emergency stationary RICE as defined by §63.6675.
- Operation shall be limited to five hundred (500) hours per twelve (12) month period rolled and totaled monthly.
- A non-resettable totalizing hour meter shall be installed on the unit.
- The owner or operator shall maintain the following monthly records:
    - the number of hours that the engine is operated for maintenance checks and readiness testing.
    - the number of hours that the engine is operated for allowed non-emergency operations.
    - the total number of hours that the engine is operated.
    - each of the above records shall include the rolling 12-month total of hours for each category of operation (i.e. maintenance and readiness testing, non-emergency use, total hours of operation).
- All records shall be kept on site for a minimum period of five years and be made available to Polk County Air Quality personnel upon request.

Authority for Requirement: Polk County AQD Construction Permit #3547

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

Stack Height, (from the ground): 8
Stack Opening, (inches, dia.): 5, Circular
Exhaust Flow Rate (scfm): 840
Exhaust Temperature (°F): 1136
Discharge Style: Vertical, obstructed
Authority for Requirement: Polk County AQD Construction Permit #3547

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 03-05

Emission Unit vented through this Emission Point: 03-05
Emission Unit Description: Hurst Welding & Boiler Co. Series 500 Natural Gas Boiler
Raw Material/Fuel: Natural Gas
Rated Capacity: 10.043 MMBtu/hr, 300 bhp

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: <20%
Authority for Requirement: Polk County Board of Health Rules and Regulations Chapter V, Article IV, Section 5-9
Polk County AQD Construction Permit #3788

Pollutant: Particulate Matter (PM)
Emission Limits: 0.33 TPY and 0.6 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(2)"b"
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-15(b)
Polk County AQD Construction Permit #3788

Pollutant: Particulate Matter (PM_{10})
Emission Limits: 0.33 TPY
Authority for Requirement: Polk County AQD Construction Permit #3788

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit: 0.03 TPY and 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"
Polk County Board of Health Rules and Regulations Chapter V, Article IX, Section 5-27(5)
Polk County AQD Construction Permit #3788

Pollutant: Nitrogen Oxide (NO_x)
Emission Limits: 4.83 TPY
Authority for Requirement: Polk County AQD Construction Permit #3788

Pollutant: Volatile Organic Compounds (VOC)
Emission Limits: 0.24 TPY
Authority for Requirement: Polk County AQD Construction Permit #3788

Pollutant: Carbon Monoxide (CO)
Emission Limits: 3.62 TPY
Authority for Requirement: Polk County AQD Construction Permit #3788

Operational Limits & Requirements

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

NSPS Requirements

The owner and operator shall comply with all applicable requirements of 40 CFR 60 Subpart Dc – Standards of Performance for Small, Industrial-Commercial-Institutional Steam Generating Units.

- **60.40c Applicability and delegation of authority.**
  - As per §60.40c(a), this is an affected facility to which this subpart applies, since this is a steam generating unit for which construction, modification, or reconstruction commenced after June 9, 1989 and that has a maximum design heat input capacity of 29 megawatts (MW) (100 million Btu per hour (BTU/hr)) or less, but greater than or equal to 2.9 MW (10 million BTU/hr). The delegation of authority in terms of the Administrator is the Polk County Air Quality Division Health Officer.
- **§60.48c Reporting and recordkeeping requirements.**
  - As per §60.48c(a), the owner or operator of EU 03-05 shall submit notification of the date of construction or reconstruction and actual startup, as provided by §60.7 of this part.
  - The owner or operator shall comply with the Reporting and Recordkeeping Requirements of §60.48c(g)(1)-(3).
    - (1) Except as provided under paragraphs (g)(2) and (g)(3) of this section, the owner or operator of each affected facility shall record and maintain records of the amount of each fuel combusted during each operating day.
    - (2) As an alternative to meeting the requirements of paragraph (g)(1) of this section, the owner or operator of an affected facility that combusts only natural gas, wood, fuels using fuel certification in §60.48c(f) to demonstrate compliance with the SO2 standard, fuels not subject to an emissions standard (excluding opacity), or a mixture of these fuels may elect to record and maintain records of the amount of each fuel combusted during each calendar month.
    - (3) As an alternative to meeting the requirements of paragraph (g)(1) of this section, the owner or operator of an affected facility or multiple affected facilities located on a contiguous property unit where the only fuels combusted in any steam generating unit (including steam generating units not subject to this subpart) at that property are natural gas, wood, distillate oil meeting the most current requirements in §60.42C to use fuel certification to demonstrate compliance with the SO2 standard, and/or fuels, excluding coal and residual oil, not subject to an emissions standard (excluding opacity) may elect to record and maintain records of the total

amount of each steam generating unit fuel delivered to that property during each calendar month.

Authority for Requirement: 40 CFR 60 Subpart Dc
567 IAC 23.1(2) "lll"
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-16(n)(64)
Polk County AQD Construction Permit #3788

Additional Requirements:

- See Plant-Wide Conditions.

Authority for Requirement: Polk County AQD Construction Permit #3788

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (from the ground): 42
Stack Opening, (inches, dia.): 20, Circular
Exhaust Flow Rate (scfm): 2,413
Exhaust Temperature (°F): 364
Discharge Style: Vertical, obstructed
Authority for Requirement: Polk County AQD Construction Permit #3788

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

IV. General Conditions

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

G1. Duty to Comply

1. The permittee must comply with all conditions of the Title V permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for a permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. *567 IAC 24.108(9)"a"*
2. Any compliance schedule shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based. *567 IAC 24.105(2)"h"(3)*
3. Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be enforceable by the administrator and are incorporated into this permit. *567 IAC 24.108(1)"b"*
4. Unless specified as either "state enforceable only" or "local program enforceable only", all terms and conditions in the permit, including provisions to limit a source's potential to emit, are enforceable by the administrator and citizens under the Act. *567 IAC 24.108(14)*
5. It shall not be a defense for a permittee, in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. *567 IAC 24.108(9)"b"*
6. For applicable requirements with which the permittee is in compliance, the permittee shall continue to comply with such requirements. For applicable requirements that will become effective during the permit term, the permittee shall meet such requirements on a timely basis. *567 IAC 24.108(15)"c"*

G2. Permit Expiration

1. Except as provided in rule 567—24.104(455B), permit expiration terminates a source’s right to operate unless a timely and complete application for renewal has been submitted in accordance with rule 567—24.105(455B). *567 IAC 24.116(2)*
2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall submit on forms or electronic format specified by the Department. Additional copies to local programs or EPA are not required for application materials submitted through the electronic format specified by the Department. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in 567 IAC 24.105(2). *567 IAC 24.105*

G3. Certification Requirement for Title V Related Documents

Any application, report, compliance certification or other document submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. All certifications shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. *567 IAC 24.107(4)*

G4. Annual Compliance Certification

By March 31 of each year, the permittee shall submit compliance certifications for the previous calendar year. The certifications shall include descriptions of means to monitor the compliance status of all emissions sources including emissions limitations, standards, and work practices in accordance with applicable requirements. The certification for a source shall include the identification of each term or condition of the permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with all applicable department rules. For sources determined not to be in compliance at the time of compliance certification, a compliance schedule shall be submitted which provides for periodic progress reports, dates for achieving activities, milestones, and an explanation of why any dates were missed and preventive or corrective measures. The compliance certification shall be submitted to the administrator, director, and Polk County Air Quality Division. *567 IAC 24.108(15)"e"*

G5. Semi-Annual Monitoring Report

By March 31 and September 30 of each year, the permittee shall submit a report of any monitoring required under this permit for the 6 month periods of July 1 to December 31 and January 1 to June 30, respectively. All instances of deviations from permit requirements must be clearly identified in these reports, and the report must be signed by a responsible official, consistent with 567 IAC 24.107(4). The semi-annual monitoring report shall be submitted to the director and the appropriate Polk County Air Quality Division. *567 IAC 24.108 (5)*

G6. Annual Fee

1. The permittee is required under subrule 567 IAC 24.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The emissions inventory shall be submitted annually by March 31 with forms specified by the department documenting actual emissions for the previous calendar year.
4. The fee shall be submitted annually by July 1 with forms specified by the department.
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed.

The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.
6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 24.115(1)"d".

G7. Inspection of Premises, Records, Equipment, Methods and Discharges
Upon presentation of proper credentials and any other documents as may be required by law, the permittee shall allow the director or the director's authorized representative to:

1. Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
4. Sample or monitor, at reasonable times, substances or parameters for the purpose of ensuring compliance with the permit or other applicable requirements. *567 IAC 24.108 (15)"b" and Chapter V, Article II, 5-3 and 5-4*

G8. Duty to Provide Information
The permittee shall furnish to the director, within a reasonable time, any information that the director may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the director copies of records required to be kept by the permit, or for information claimed to be confidential, the permittee shall furnish such records directly to the administrator of EPA along with a claim of confidentiality. *567 IAC 24.108 (9)"e" and Chapter V, Article X, 5-46 and 5-47*

G9. General Maintenance and Repair Duties
The owner or operator of any air emission source or control equipment shall:

1. Maintain and operate the equipment or control equipment at all times in a manner consistent with good practice for minimizing emissions.
2. Remedy any cause of excess emissions in an expeditious manner.
3. Minimize the amount and duration of any excess emission to the maximum extent possible during periods of such emissions. These measures may include but not be limited to the use of clean fuels, production cutbacks, or the use of alternate process units or, in the case of utilities, purchase of electrical power until repairs are completed.
4. Schedule, at a minimum, routine maintenance of equipment or control equipment during periods of process shutdowns to the maximum extent possible. *567 IAC 21.8(1) and Chapter V, Article VI, Section 5-17.1*

G10. Recordkeeping Requirements for Compliance Monitoring

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:
    a. The date, place and time of sampling or measurements
    b. The date the analyses were performed.
    c. The company or entity that performed the analyses.
    d. The analytical techniques or methods used.
    e. The results of such analyses; and
    f. The operating conditions as existing at the time of sampling or measurement.
    g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)
2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.
3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:
    a. Comply with all terms and conditions of this permit specific to each alternative scenario.
    b. Maintain a log at the permitted facility of the scenario under which it is operating.
    c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 24.108(4), 567 IAC 24.108(12)*

G11. Evidence used in establishing that a violation has or is occurring.
Notwithstanding any other provisions of these rules, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any provisions herein.

1. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred at a source:
    a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 24;
    b. Compliance test methods specified in 567 Chapter 21; or
    c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.
2. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:
    a. Any monitoring or testing methods provided in these rules; or
    b. Other testing, monitoring, or information gathering methods that produce information comparable to that produced by any method in subrule 21.5(1) or this subrule. *567 IAC 21.5(1)-567 IAC 21.5(2)*

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

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Act, the permittee shall notify the department of this requirement. The plan shall be filed with all appropriate authorities by the deadline specified by EPA. A certification that this risk management plan is being properly implemented shall be included in the annual compliance certification of this permit. *567 IAC 24.108(6)*

G13. Hazardous Release

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

G14. Excess Emissions and Excess Emissions Reporting Requirements

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

2. Excess Emissions Reporting
    a. Initial Reporting of Excess Emissions. An incident of excess emission (other than an incident of excess emission during a period of startup, shutdown, or cleaning) shall be reported to the appropriate field office of the department within eight hours of, or at the start of the first working day following the onset of the incident. The reporting exemption for an incident of excess emission during startup, shutdown or cleaning does not relieve the owner or operator of a source with continuous monitoring equipment of the obligation of submitting reports required in 567-subrule 21.10(6). An initial report of excess emission is not required for a source with operational continuous monitoring equipment (as specified in 567-subrule 21.10(1)) if the incident of excess emission continues for less than 30 minutes and does not exceed the applicable emission standard by more than 10 percent or the applicable visible emission standard by more than 10 percent opacity. The initial report may be made by electronic mail (E-mail), in person, or by telephone and shall include as a minimum the following:
        i. The identity of the equipment or source operation from which the excess emission originated and the associated stack or emission point.
        ii. The estimated quantity of the excess emission.
        iii. The time and expected duration of the excess emission.
        iv. The cause of the excess emission.
        v. The steps being taken to remedy the excess emission.
        vi. The steps being taken to limit the excess emission in the interim period.
    b. Written Reporting of Excess Emissions. A written report of an incident of excess emission shall be submitted as a follow-up to all required initial reports to the department within seven days of the onset of the upset condition, and shall include as a minimum the following:
        i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
        ii. The estimated quantity of the excess emission.
        iii. The time and duration of the excess emission.
        iv. The cause of the excess emission.
        v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.
        vi. The steps that were taken to limit the excess emission.
        vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 21.7(1)-567 IAC 21.7(4) and Chapter V, Article VI, 5-17*

G15. Permit Deviation Reporting Requirements

A deviation is any failure to meet a term, condition or applicable requirement in the permit. Reporting requirements for deviations that result in a hazardous release or excess emissions have been indicated above (see G13 and G14). Unless more frequent deviation reporting is specified in the permit, any other deviation shall be documented in the semi-annual monitoring report and the annual compliance certification (see G4 and G5). *567 IAC 24.108(5)"b"*

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

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

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

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:
    a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 24.
    b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
    c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
    d. The changes are not subject to any requirement under Title IV of the Act (revisions affecting Title IV permitting are addressed in rules 567—24.140(455B) through 567 - 24.144(455B));.
    e. The changes comply with all applicable requirements.
    f. For each such change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:
        i. A brief description of the change within the permitted facility,
        ii. The date on which the change will occur,
        iii. Any change in emission as a result of that change,
        iv. The pollutants emitted subject to the emissions trade
        v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
        vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
        vii. Any permit term or condition no longer applicable as a result of the change. *567 IAC 24.110(1)*

2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 24.110(2)*
3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 24.110(1). *567 IAC 24.110(3)*
4. The permit shield provided in subrule 24.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 24.110(4)*
5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 24.108(11)*

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.
    a. An administrative permit amendment is a permit revision that does any of the following:
        i. Correct typographical errors
        ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;
        iii. Require more frequent monitoring or reporting by the permittee; or
        iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.
    b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.
    c. Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.
2. Minor Title V Permit Modification.
    a. Minor Title V permit modification procedures may be used only for those permit modifications that satisfy all of the following:
        i. Do not violate any applicable requirement;
        ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit;
        iii. Do not require or change a case by case determination of an emission limitation or other standard, or an increment analysis;
        iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which

the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act;

v. Are not modifications under any provision of Title I of the Act; and
vi. Are not required to be processed as significant modification under rule 567 - 24.113(455B).

b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:
   i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;
   ii. The permittee's suggested draft permit;
   iii. Certification by a responsible official, pursuant to 567 IAC 24.107(4), that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used; and
   iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 24.107(7).

c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 24.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against the facility.

3. Significant Title V Permit Modification.

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

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

G19. Duty to Obtain Construction Permits

Unless exempted in 567 IAC 22.1(2) or to meet the parameters established in 567 IAC 22.1(1)"c", the permittee shall not construct, install, reconstruct or alter any equipment, control equipment or anaerobic lagoon without first obtaining a construction permit, or conditional

permit, or permit pursuant to rule 567 IAC 22.8, or permits required pursuant to rules 567 IAC 22.4, 567 IAC 22.5, 567 IAC 31.3, and 567 IAC 33.3 as required in 567 IAC 22.1(1). A permit shall be obtained prior to the initiation of construction, installation or alteration of any portion of the stationary source or anaerobic lagoon. *567 IAC 22.1(1) and Chapter V, Article X, 5-28*

G20. Asbestos
The permittee shall comply with 567 IAC 23.1(3)"a", and 567 IAC 23.2(3)"g" when activities involve asbestos mills, surfacing of roadways, manufacturing operations, fabricating, insulating, waste disposal, spraying applications, demolition and renovation operations *(567 IAC 23.1(3)"a");* training fires and controlled burning of a demolished building *(567 IAC 23.2).*

G21. Open Burning
The permittee is prohibited from conducting open burning, except as provided in *567 IAC 23.2. 567 IAC 23.2 except 23.2(3)"j"; 567 IAC 23.2(3)"j" - State Only*

G22. Acid Rain (Title IV) Emissions Allowances
The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated there under. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners and operators of the unit or the designated representative of the owners and operators is prohibited. Exceedences of applicable emission rates are prohibited. "Held" in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. *567 IAC 24.108(7)*

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

1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
    a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.
    b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.
    c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.
    d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.
2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:
    a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.
    b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.

c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.
d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)
e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.
f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.

3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.
4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,
5. The permittee shall be allowed to switch from any ozone-depleting or greenhouse gas generating substances to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

G24. Permit Reopenings

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 24.108(9)"c"*
2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.
    a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;
    b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.
    c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 24.108(17)"a", 567 IAC 24.108(17)"b"*
3. A permit shall be reopened and revised under any of the following circumstances:

a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;
b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;
c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.
d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.
e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 24.114(1)*

4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 24.114(2)*
5. A notice of intent shall be provided to the Title V source at least 30 days in advance of the date the permit is to be reopened, except that the director may provide a shorter time period in the case of an emergency. *567 IAC 24.114(3)*

G25. Permit Shield

1. The director may expressly include in a Title V permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:
    a. Such applicable requirements are included and are specifically identified in the permit; or
    b. The director, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.
2. A Title V permit that does not expressly state that a permit shield exists shall be presumed not to provide such a shield.
3. A permit shield shall not alter or affect the following:
    a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;
    b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;

c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;
d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 24.108 (18)*

G26. Severability
The provisions of this permit are severable and if any provision or application of any provision is found to be invalid by this department or a court of law, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected by such finding. *567 IAC 24.108 (8) and Chapter V, Article XVII, 5-77*

G27. Property Rights
The permit does not convey any property rights of any sort, or any exclusive privilege. *567 IAC 24.108 (9)"d"*

G28. Transferability
This permit is not transferable from one source to another. If title to the facility or any part of it is transferred, an administrative amendment to the permit must be sought consistent with the requirements of 567 IAC 24.111(1). *567 IAC 24.111 (1)"d"*

G29. Disclaimer
No review has been undertaken on the engineering aspects of the equipment or control equipment other than the potential of that equipment for reducing air contaminant emissions. *567 IAC 24.3(3)"c"*

G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification
The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with applicable requirements of 567 – Chapter 23 or a permit condition. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. If the owner or operator does not provide timely notice to the department, the department shall not consider the test results or performance evaluation results to be a valid demonstration of compliance with applicable rules or permit conditions. Upon written request, the department may allow a notification period of less than 30 days. At the department’s request, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. A testing protocol shall be submitted to the department no later than 15 days before the owner or operator conducts the compliance demonstration. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks (42 days) of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing,

continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.

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

Stack Test Review Coordinator
Iowa DNR, Air Quality Bureau
6200 Park Ave
Suite 200
Des Moines, IA 50321
(515) 343-6589

Within Polk County, stack test notifications, reports and correspondence shall also be directed to the supervisor of the respective county air pollution program.
567 IAC 21.10(7)"a", 567 IAC 21.10(9) and Chapter V, Article VII, 5-18 and 5-19

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

G32. Contacts List
The current address and phone number for reports and notifications to the EPA administrator is:

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

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

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

Reports or notifications to the local program shall be directed to the supervisor at the appropriate local program. Current address and phone number is:

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

V. Appendix A: Web Links to Applicable Regulations

(push Ctrl & click the link)

- 40 CFR 60 Subpart Dc: Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units
  https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-Dc

- 40 CFR 60 Subpart IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
  https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-IIII

- 40 CFR 60 Subpart JJJJ: Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
  https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-JJJJ

- 40 CFR 63 Subpart ZZZZ: National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
  https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-ZZZZ

- 40 CFR 63 Subpart CCCCCC: National Emission Standards for Hazardous Air Pollutants for Source Categories: Gasoline Dispensing Facilities
  https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-CCCCCC

VI. Appendix B: Executive Order 10 (EO10) Rules Crosswalk

Previous Chapter Number (Prior to 5/15/2024)	Current Chapter Number	Previous Title and Description (Prior to 5/15/2024)	Current Title and Description	Actions Taken
20	**20 (Reserved)**	Scope of Title - Definitions	N/A	**Definitions moved** to Ch. 21, 22 and 23. **Rescinded** Ch. 20. (Reserved)
21	**21**	Compliance	Compliance, Excess Emissions, and Measurement of Emissions	**Kept and combined** with rules from Chapters 24, 25, 26, and 29.
22	**22**	Controlling Pollution-Permits	Controlling Air Pollution - Construction Permitting	**Kept construction permit rules and combined** with Ch. 20 (definitions) and Ch. 28 (NAAQS). **Moved operating permit rules** to Chapter 24.
22.100 - 22.300(12)	**(New) 24**	N/A	Operating Permits	**Moved operating permit rules** from Ch. 22 to Ch. 24.
23	**23**	Emission Standards	Air Emission Standards	**Kept**
24	**(New) 21**	Excess Emissions	Compliance, Excess Emissions, and Measurement of Emissions	**Moved rules and combined** with Ch. 21. **Moved TV rules** here (to Ch. 24)**.**
25	**(New) 21**	Emissions Measurement	Compliance, Excess Emissions, and Measurement of Emissions	**Moved rules and combined** with Ch. 21. **Rescinded** Ch. 25. (Reserved)
26	**(New) 21**	Emergency Air Pollution Episodes	Compliance, Excess Emissions, and Measurement of Emissions	**Moved rules and combined** with Ch. 21. **Rescinded** Ch. 26. (Reserved)
27	**27**	Local Program Acceptance	Local Program Acceptance	**Kept**
28	**22**	NAAQS	N/A	**Moved rules and combined** with Ch. 22. **Rescinded** Ch. 28. (Reserved)
29	**(New) 21**	Opacity Qualifications	Compliance, Excess Emissions, and Measurement of Emissions	**Moved rules and combined** with Ch. 21. **Rescinded** Ch. 29. (Reserved)
30	**30**	Fees	Fee	**Kept**
31	**31**	Nonattainment Areas	Nonattainment New Source Review	**Kept**
32	**N/A**	AFO Field Study	N/A	**Rescinded** Ch. 32. (Reserved)
33	**33**	Special regulations and construction permit requirements for major stationary sources—Prevention of significant deterioration (PSD) of air quality	Construction permit requirements for major stationary sources—Prevention of significant deterioration (PSD)	**Kept**
34	**N/A**	Emissions Trading-CAIR-CAMR	N/A	**Rescinded** Ch. 34. (Reserved)
35	**N/A**	Grant Assistance Programs	N/A	**Rescinded** Ch. 35. (Reserved)

Previous Chapter Number (Prior to 5/15/2024)	Current Chapter Number	Previous Title and Description (Prior to 5/15/2024)	Current Title and Description	Actions Taken
20	**20 (Reserved)**	**Scope of Title - Definitions**	**N/A**	**Definitions moved** to Ch. 21, 22 and 23. **Rescinded** Ch. 20. (Reserved)
20.1	N/A	Scope of title	N/A	
20.2	Ch. 21, 22, 23	Definitions	Definitions	See beginning of Ch. 21, 22, and 23
20.3	N/A	Air quality forms generally	N/A	
21	**21**	**Compliance**	**Compliance, Excess Emissions, and Measurement of Emissions**	**Kept and combined** with rules from Chapters 24, 25, 26, and 29.
21.1	21.1	Compliance Schedule	Definitions and compliance requirements	Added definitions from Ch. 21, some language updated
21.2	21.2	Variances	Variances	Some language updated
21.3	21.3	Emission reduction program	Reserved	Reserved
21.4	21.4	Circumvention of rules	Circumvention of rules	Minor language updated
21.5	21.5	Evidence used in establishing that a violation has or is occurring	Evidence used in establishing that a violation has occurred or is occurring	21.5(2) Reserved, some language updated
21.6	21.6	Temporary electricity generation for disaster situations	Temporary electricity generation for disaster situations	Minor language updated
24.1	21.7	Excess emission reporting	Excess emission reporting	Moved from Ch. 24, some language updated
24.2	21.8	Maintenance and repair requirements	Maintenance and repair requirements	Moved from Ch. 24, some language updated
N/A	21.9	N/A	Compliance with other requirements	New language
25.1	21.10	Testing and sampling of new and existing equipment	Testing and sampling of new and existing equipment	Moved from Ch. 25, some language updated
25.2	21.11	Continuous emission monitoring under the acid rain program	Continuous emission monitoring under the acid rain program	Moved from Ch. 25, some language updated
25.3	N/A	Mercury emissions testing and monitoring	N/A	Rescinded. Except 25.3(5)
25.3(5)	21.12	Affected sources subject to Section 112(g)	Affected sources subject to Section 112(g)	Moved from Ch. 25, some language updated
29.1	21.13	Methodology and qualified observer	Methodology and qualified observer	Moved from Ch. 29, some language updated
26.1	21.14	Prevention of air pollution emergency episodes - General	Prevention of air pollution emergency episodes	Moved from Ch. 26, some language updated
26.2	21.15	Episode criteria	Episode criteria	Moved from Ch. 26, some language updated
26.3	21.16	Preplanned abatement strategies	Preplanned abatement strategies	Moved from Ch. 26, some language updated
26.4	21.17	Actions taken during episodes	Actions taken during episodes	Moved from Ch. 26, some language updated
Ch 26 Table III	Table I	Abatement strategies emission reduction actions alert level	Abatement strategies emission reduction actions alert level	Moved from Ch. 26, reference federal appendix table
Ch 26 Table IV	Table II	Abatement strategies emission reduction actions warning level	Abatement strategies emission reduction actions warning level	Moved from Ch. 26, reference federal appendix table
Ch 26 Table V	Table III	Abatement strategies emission reduction actions emergency level	Abatement strategies emission reduction actions emergency level	Moved from Ch. 26, reference federal appendix table
22	**22**	**Controlling Pollution-Permits**	**Controlling Air Pollution - Construction Permitting**	**Kept construction permit rules and combined** with Ch. 20 (definitions) and Ch. 28 (NAAQS). **Moved operating permit rules** to Chapter 24.
22.1	22.1	Permits required for new or existing stationary sources	Definitions and permit requirements for new or existing stationary sources	Added definitions from Ch. 20, some language updated
22.2	22.2	Processing permit applications	Processing permit applications	
22.3	22.3	Issuing permits	Issuing permits	
22.4	22.4	Special requirements for major stationary sources located in areas designated attainment or unclassified (PSD)	Major stationary sources located in areas designated attainment or unclassified (PSD)	
22.5	22.5	Special requirements for nonattainment areas	Major stationary sources located in areas designated Nonattainment	
22.6	22.6	Nonattainment area designations	Reserved	

Previous Chapter Number (Prior to 5/15/2024)	Current Chapter Number	Previous Title and Description (Prior to 5/15/2024)	Current Title and Description	Actions Taken
22.7	22.7	Alternative emission control program	Alternative emission control program	
22.8	22.8	Permit by rule	Permit by rule	
22.9	22.9	Special requirements for visibility protection	Special requirements for visibility protection	A lot of language updated or removed
22.10	22.10	Permitting requirements for country grain elevators, country grain terminal elevators, grain terminal elevators and feed mill equipment	Permitting requirements for country grain elevators, country grain terminal elevators, grain terminal elevators and feed mill equipment	
28.1	22.11	Ambient air quality standards - Statewide standards	Ambient air quality standards	Moved from Ch. 28, minor language updated
22.12 to 22.99	N/A	Reserved	N/A	Removed

22.100 - 22.300(12)	**(New) 24**	**N/A**	**Operating Permits**	**Moved operating permit rules** from Ch. 22 to Ch. 24.
22.100	24.100	Definitions for Title V operating permits	Definitions for Title V operating permits	Moved from Ch. 22, some language updated, many 40 CFR 70 definitions adopted by reference
22.101	24.101	Applicability of Title V operating permit requirements	Applicability of Title V operating permit requirements	Moved from Ch. 22, some language updated to correct punctuation and remove old dates
22.102	24.102	Source category exemptions	Source category exemptions	Moved from Ch. 22, some language updated to correct punctuation
22.103	24.103	Insignificant activities	Insignificant activities	Moved from Ch. 22, some language updated to correct typos and remove old dates
22.104	24.104	Requirement to have a Title V permit	Requirement to have a Title V permit	Moved from Ch. 22, some language updated no changes to rule text
22.105	24.105	Title V permit applications	Title V permit applications	Moved from Ch. 22, updated language to address electronic submissions and remove past application due dates
22.106	24.106	Annual Title V emissions inventory	Annual Title V emissions inventory	Moved from Ch. 22, no changes to rule text
22.107	24.107	Title V permit processing procedures	Title V permit processing procedures	Moved from Ch. 22, some language updated to update locations of public records and remove old CFR amendment dates
22.108	24.108	Permit content	Permit content	Moved from Ch. 22, some language updated to correct punctuation, remove old dates, and adopt 40 CFR 70 rules by reference
22.109	24.109	General permits	General permits	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.110	24.110	Changes allowed without a Title V permit revision (off-permit revisions)	Changes allowed without a Title V permit revision (off-permit revisions)	Moved from Ch. 22, some language updated to remove redundant language
22.111	24.111	Administrative amendments to Title V permits	Administrative amendments to Title V permits	Moved from Ch. 22, no changes to rule text
22.112	24.112	Minor Title V permit modifications	Minor Title V permit modifications	Moved from Ch. 22, no changes to rule text
22.113	24.113	Significant Title V permit modifications	Significant Title V permit modifications	Moved from Ch. 22, no changes to rule text
22.114	24.114	Title V permit reopenings	Title V permit re-openings	Moved from Ch. 22 to Ch. 24, some language updated to adopt 40 CFR 70 rules by reference
22.115	24.115	Suspension, termination, and revocation of Title V permits	Suspension, termination, and revocation of Title V permits	Moved from Ch. 22, no changes to rule text
22.116	24.116	Title V permit renewals	Title V permit renewals	Moved from Ch. 22, no changes to rule text
22.117-22.119	24.117-24.119	Reserved	Reserved	Moved from Ch. 22, no changes to rule text
22.120	24.120	Acid rain program—definitions	Acid rain program—definitions	Moved from Ch. 22, some language updated to remove old CFR amendment dates and address electronic submissions
22.121	24.121	Measurements, abbreviations, and acronyms	Reserved	Moved from Ch. 22, no changes to rule text
22.122	24.122	Applicability	Applicability	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.123	24.123	Acid rain exemptions	Acid rain exemptions	Moved from Ch. 22, some language updated to correct punctuation
22.124	24.124	Retired units exemption	Reserved	Moved from Ch. 22, no changes to rule text
22.125	24.125	Standard requirements	Standard requirements	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.126	24.126	Designated representative—submissions	Designated representative—submissions	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.127	24.127	Designated representative—objections	Designated representative—objections	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.128	24.128	Acid rain applications—requirement to apply	Acid rain applications—requirement to apply	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference

22.129	24.129	Information requirements for acid rain permit applications	Information requirements for acid rain permit applications	Moved from Ch. 22, no changes to rule text

Previous Chapter Number (Prior to 5/15/2024)	Current Chapter Number	Previous Title and Description (Prior to 5/15/2024)	Current Title and Description	Actions Taken
22.130	24.130	Acid rain permit application shield and binding effect of permit application	Acid rain permit application shield and binding effect of permit application	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.131	24.131	Acid rain compliance plan and compliance options—general	Acid rain compliance plan and compliance options—general	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.132	24.132	Repowering extensions	Reserved	Moved from Ch. 22, no changes to rule text
22.133	24.133	Acid rain permit contents—general	Acid rain permit contents—general	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.134	24.134	Acid rain permit shield	Acid rain permit shield	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.135	24.135	Acid rain permit issuance procedures—general	Acid rain permit issuance procedures—general	Moved from Ch. 22, no changes to rule text
22.136	24.136	Acid rain permit issuance procedures—completeness	Acid rain permit issuance procedures—completeness	Moved from Ch. 22, no changes to rule text
22.137	24.137	Acid rain permit issuance procedures—statement of basis	Acid rain permit issuance procedures—statement of basis	Moved from Ch. 22, no changes to rule text
22.138	24.138	Issuance of acid rain permits	Issuance of acid rain permits	Moved from Ch. 22, some language updated to remove old dates and deadlines
22.139	24.139	Acid rain permit appeal procedures	Acid rain permit appeal procedures	Moved from Ch. 22, no changes to rule text
22.140	24.140	Permit revisions—general	Permit revisions—general	Moved from Ch. 22, some language updated to remove old dates
22.141	24.141	Permit modifications	Permit modifications	Moved from Ch. 22, no changes to rule text
22.142	24.142	Fast-track modifications	Fast-track modifications	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.143	24.143	Administrative permit amendment	Administrative permit amendment	Moved from Ch. 22, some language updated to remove fax option
22.144	24.144	Automatic permit amendment	Automatic permit amendment	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.145	24.145	Permit reopenings	Permit re-openings	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.146	24.146	Compliance certification—annual report	Compliance certification—annual report	Moved from Ch. 22, no changes to rule text
22.147	24.147	Compliance certification—units with repowering extension plans	Reserved	Moved from Ch. 22, no changes to rule text
22.148	24.148	Sulfur dioxide opt-ins	Sulfur dioxide opt-ins	Moved from Ch. 22, some language updated to update the 40 CFR Part 74 amendment date
22.149 - 22.199	24.149 - 24.299	Reserved	Reserved	Moved from Ch. 22, no changes to rule text
22.200	24.200 - 24.299	Definitions for voluntary operating permits	Reserved	Moved from Ch. 22, no changes to rule text
22.201	24.200 - 24.299	Eligibility for voluntary operating permits	Reserved	Moved from Ch. 22, no changes to rule text
22.203	24.200 - 24.299	Voluntary operating permit applications	Reserved	Moved from Ch. 22, no changes to rule text
22.204	24.200 - 24.299	Voluntary operating permit fees	Reserved	Moved from Ch. 22, no changes to rule text
22.205	24.200 - 24.299	Voluntary operating permit processing procedures	Reserved	Moved from Ch. 22, no changes to rule text
22.206	24.200 - 24.299	Permit content	Reserved	Moved from Ch. 22, no changes to rule text
22.207	24.200 - 24.299	Relation to construction permits	Reserved	Moved from Ch. 22, no changes to rule text
22.208	24.200 - 24.299	Suspension, termination, and revocation of voluntary operating permits	Reserved	Moved from Ch. 22, no changes to rule text
22.209	24.200 - 24.299	Change of ownership for facilities with voluntary operating permits	Reserved	Moved from Ch. 22, no changes to rule text
22.210 - 22.299	24.200 - 24.299	Reserved	Reserved	Moved from Ch. 22, no changes to rule text
22.300	24.300	Operating permit by rule for small sources	Operating permit by rule for small sources	Moved from Ch. 22, no changes to rule text

23	23	Emission Standards	Air Emission Standards	Kept
23.1	23.1	Emission standards	Emission standards	Kept, language updated, tables used
23.2	23.2	Open burning	Open burning	Kept, some language updated
23.3	23.3	Specific contaminants	Specific contaminants	Kept, some language updated
23.4	23.4	Specific processes	Specific processes	Kept, some language updated
23.5	23.5	Anaerobic lagoons	Anaerobic lagoons	Kept, some language updated
23.6	23.6	Alternative emission limits (the “bubble concept”)	Reserved	Removed

Previous Chapter Number (Prior to 5/15/2024)	Current Chapter Number	Previous Title and Description (Prior to 5/15/2024)	Current Title and Description	Actions Taken
24	**(New) 21**	**Excess Emissions**	**Compliance, Excess Emissions, and Measurement of Emissions**	**Moved rules and combined** with Ch. 21. **Moved operating permit rules** here (to Ch. 24)**.**
24.1	21.7	Excess emission reporting	Excess emission reporting	Moved from Ch. 24, some language updated
24.2	21.8	Maintenance and repair requirements	Maintenance and repair requirements	Moved from Ch. 24, some language updated
25	**(New) 21**	**Emissions Measurement**	**Compliance, Excess Emissions, and Measurement of Emissions**	**Moved rules and combined** with Ch. 21. **Rescinded** Ch. 25. (Reserved)
25.1	21.10	Testing and sampling of new and existing equipment	Testing and sampling of new and existing equipment	Moved from Ch. 25, some language updated
25.2	21.11	Continuous emission monitoring under the acid rain program	Continuous emission monitoring under the acid rain program	Moved from Ch. 25, some language updated
25.3		Mercury emissions testing and monitoring	N/A	Rescinded. Except 25.3(5)
25.3(5)	21.12	Affected sources subject to Section 112(g)	Affected sources subject to Section 112(g)	Moved from Ch. 25, some language updated
26	**(New) 21**	**Emergency Air Pollution Episodes**	**Compliance, Excess Emissions, and Measurement of Emissions**	**Moved rules and combined** with Ch. 21. **Rescinded** Ch. 26. (Reserved)
26.1	21.14	Prevention of air pollution emergency episodes - General	Prevention of air pollution emergency episodes	Moved from Ch. 26, some language updated
26.2	21.15	Episode criteria	Episode criteria	Moved from Ch. 26, some language updated
26.3	21.16	Preplanned abatement strategies	Preplanned abatement strategies	Moved from Ch. 26, some language updated
26.4	21.17	Actions taken during episodes	Actions taken during episodes	Moved from Ch. 26, some language updated
Ch 26 Table III	Table I	Abatement strategies emission reduction actions alert level	Abatement strategies emission reduction actions alert level	Moved from Ch. 26, reference federal appendix table
Ch 26 Table IV	Table II	Abatement strategies emission reduction actions warning level	Abatement strategies emission reduction actions warning level	Moved from Ch. 26, reference federal appendix table
Ch 26Table V	Table III	Abatement strategies emission reduction actions emergency level	Abatement strategies emission reduction actions emergency level	Moved from Ch. 26, reference federal appendix table
27	**27**	**Local Program Acceptance**	**Local Program Acceptance**	**Kept**
27.1	27.1	General	General	Kept, some language updated
27.2	27.2	Certificate of acceptance	Certificate of acceptance	Kept, some language updated
27.3	27.3	Ordinance or regulations	Ordinance or regulations	Kept, some language updated
27.4	27.4	Administrative organization	Administrative organization	Kept, some language updated
27.5	27.5	Program activities	Program activities	Kept, some language updated
28	**22**	**NAAQS**	**N/A**	**Moved rules and combined** with Ch. 22. **Rescinded** Ch. 28. (Reserved)
28.1	22.11	Ambient air quality standards - Statewide standards	Ambient air quality standards	**Moved from Ch. 28**, minor language updated **Rescinded** Ch. 28. (Reserved)
29	**(New) 21**	**Opacity Qualifications**	**Compliance, Excess Emissions, and Measurement of Emissions**	**Moved rules and combined** with Ch. 21. **Rescinded** Ch. 29. (Reserved)
29.1	21.13	Methodology and qualified observer	Methodology and qualified observer	Moved from Ch. 29, some language updated

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30	**30**	**Fees**	**Fee**	**Kept**
30.1	30.1	Purpose	Purpose	Kept, language updated
30.2	30.2	Fees associated with new source review applications	Fees associated with new source review applications	Kept, some language updated
30.3	30.3	Fees associated with asbestos demolition or renovation notification	Fees associated with asbestos demolition or renovation notification	Kept, some language updated
30.4	30.4	Fees associated with Title V operating permits	Fees associated with Title V operating permits	Kept, some language updated
30.5	30.5	Fee advisory groups	Fee advisory groups	Kept, language updated
30.6	30.6	Process to establish or adjust fees and notification of fee rates	Process to establish or adjust fees and notification of fee rates	Kept, some language updated
30.7	30.7	Fee revenue	Reserved	Language removed
31	**31**	**Nonattainment Areas**	**Nonattainment New Source Review**	**Kept**
31.1	31.1	Permit requirements relating to nonattainment areas	Permit requirements relating to nonattainment areas	Kept, some language updated
31.2	31.2	Conformity of general federal actions to the Iowa state implementation plan or federal implementation plan - Rescinded	Reserved	Language removed
31.3	31.3	Nonattainment new source review requirements for areas designated nonattainment on or after May 18, 1998	Nonattainment new source review (NNSR) requirements for areas designated nonattainment	Kept, some language updated
31.4	31.4	Preconstruction review permit program	Preconstruction review permit program	Kept
31.5 - 31.8	31.5 - 31.8	Reserved	Reserved	Kept
31.9	31.9	Actuals PALs	Actuals PALs	Kept, some language updated
31.10	31.10	Validity of rules	Validity of rules	Kept
31.11 - 31.19	N/A	Reserved	N/A	Rescinded and removed
31.20	N/A	Special requirements for nonattainment areas designated before May 18, 1998	N/A	Rescinded and removed
32	**N/A**	**AFO Field Study**	**N/A**	**Rescinded** Ch. 32. (Reserved)
32.1	N/A	Animal feeding operations field study	N/A	Rescinded, reserved, and language removed
32.2	N/A	Definitions	N/A	Rescinded, reserved, and language removed
32.3	N/A	Exceedance of the health effects value (HEV) for hydrogen sulfide	N/A	Rescinded, reserved, and language removed
32.4	N/A	Exceedance of the health effects standard (HES) for hydrogen sulfide	N/A	Rescinded, reserved, and language removed
32.5	N/A	Iowa Air Sampling Manual	N/A	Rescinded, reserved, and language removed
33	**33**	**Special regulations and construction permit requirements for major stationary sources—Prevention of significant deterioration (PSD) of air quality**	**Construction permit requirements for major stationary sources—Prevention of significant deterioration (PSD)**	**Kept**
33.1	33.1	Purpose	Purpose	Kept, some language updated
33.2	33.2	Reserved	Reserved	Kept
33.3	33.3	Special construction permit requirements for major stationary sources in areas designated attainment or unclassified (PSD)	PSD construction permit requirements for major stationary sources	Kept, some language updated
33.4 - 33.8	33.4 - 33.8	Reserved	Reserved	Kept
33.9	33.9	Plantwide applicability limitations (PALs)	Plantwide applicability limitations (PALs)	Kept, some language updated
33.10	33.10	Exceptions to adoption by reference	Exceptions to adoption by reference	Kept, some language updated

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34	**N/A**	**Emissions Trading-CAIR-CAMR**	**N/A**	**Rescinded** Ch. 34. (Reserved)
34.1	N/A	Purpose	N/A	Rescinded, reserved, and language removed
34.2 - 34.199	N/A	Reserved	N/A	Rescinded, reserved, and language removed
34.200	N/A	Provisions for air emissions trading and other requirements for the Clean Air Interstate Rule (CAIR) - rescinded	N/A	Rescinded, reserved, and language removed
34.201	N/A	CAIR NOx annual trading program general provisions - rescinded	N/A	Rescinded, reserved, and language removed
34.202	N/A	CAIR designated representative for CAIR NOx sources - rescinded	N/A	Rescinded, reserved, and language removed
34.203	N/A	Permits - rescinded	N/A	Rescinded, reserved, and language removed
34.204	N/A	Reserved	N/A	Rescinded, reserved, and language removed
34.205	N/A	CAIR NOx allowance allocations - rescinded	N/A	Rescinded, reserved, and language removed
34.206	N/A	CAIR NOx allowance tracking system - rescinded	N/A	Rescinded, reserved, and language removed
34.207	N/A	CAIR NOx allowance transfers - rescinded	N/A	Rescinded, reserved, and language removed
34.208	N/A	Monitoring and reporting - rescinded	N/A	Rescinded, reserved, and language removed
34.209	N/A	CAIR NOx opt-in units - rescinded	N/A	Rescinded, reserved, and language removed
34.210	N/A	CAIR SO2 trading program - rescinded	N/A	Rescinded, reserved, and language removed
34.211 - 34.219	N/A	Reserved	N/A	Rescinded, reserved, and language removed
34.220	N/A	CAIR NOx ozone season trading program - rescinded	N/A	Rescinded, reserved, and language removed
34.221	N/A	CAIR NOx ozone season trading program general provisions - rescinded	N/A	Rescinded, reserved, and language removed
34.222	N/A	CAIR designated representative for CAIR NOx ozone season sources - rescinded	N/A	Rescinded, reserved, and language removed
34.223	N/A	CAIR NOx ozone season permits - rescinded	N/A	Rescinded, reserved, and language removed
34.224	N/A	Reserved	N/A	Rescinded, reserved, and language removed
34.225	N/A	CAIR NOx ozone season allowance allocations - rescinded	N/A	Rescinded, reserved, and language removed
34.226	N/A	CAIR NOx ozone season allowance tracking system - rescinded	N/A	Rescinded, reserved, and language removed
34.227	N/A	CAIR NOx ozone season allowance transfers - rescinded	N/A	Rescinded, reserved, and language removed
34.228	N/A	CAIR NOx ozone season monitoring and reporting - rescinded	N/A	Rescinded, reserved, and language removed
34.229	N/A	CAIR NOx ozone season opt-in units - rescinded	N/A	Rescinded, reserved, and language removed
34.230 - 34.299	N/A	Reserved	N/A	Rescinded, reserved, and language removed
34.300	N/A	Provisions for air emissions trading and other requirements for the Clean Air Mercury Rule (CAMR) - rescinded	N/A	Rescinded, reserved, and language removed
34.301	N/A	Mercury (Hg) budget trading program general provisions - rescinded	N/A	Rescinded, reserved, and language removed
34.302	N/A	Hg designated representative for Hg budget sources - rescinded	N/A	Rescinded, reserved, and language removed
34.303	N/A	General Hg budget trading program permit requirements - rescinded	N/A	Rescinded, reserved, and language removed
34.304	N/A	Hg allowance allocations - rescinded	N/A	Rescinded, reserved, and language removed
34.305	N/A	Hg allowance tracking system - rescinded	N/A	Rescinded, reserved, and language removed

34.306	N/A	Hg allowance transfers - rescinded	N/A	Rescinded, reserved, and language removed
Previous Chapter Number (Prior to 5/15/2024)	**Current Chapter Number**	**Previous Title and Description (Prior to 5/15/2024)**	**Current Title and Description**	**Actions Taken**
34.307	N/A	Monitoring and reporting - rescinded	N/A	Rescinded, reserved, and language removed
34.308	N/A	Performance specifications - rescinded	N/A	Rescinded, reserved, and language removed

35	**N/A**	**Grant Assistance Programs**	**N/A**	**Rescinded** Ch. 35. (Reserved)
35.1	N/A	Purpose	N/A	Rescinded, reserved, and language removed
35.2	N/A	Definitions	N/A	Rescinded, reserved, and language removed
35.3	N/A	Role of the department of natural resources	N/A	Rescinded, reserved, and language removed
35.4	N/A	Eligible projects	N/A	Rescinded, reserved, and language removed
35.5	N/A	Forms	N/A	Rescinded, reserved, and language removed
35.6	N/A	Project selection	N/A	Rescinded, reserved, and language removed
35.7	N/A	Funding sources	N/A	Rescinded, reserved, and language removed
35.8	N/A	Type of financial assistance	N/A	Rescinded, reserved, and language removed
35.9	N/A	Term of loans	N/A	Rescinded, reserved, and language removed
35.10	N/A	Reduced award	N/A	Rescinded, reserved, and language removed
35.11	N/A	Fund disbursement limitations	N/A	Rescinded, reserved, and language removed
35.12	N/A	Applicant cost share	N/A	Rescinded, reserved, and language removed
35.13	N/A	Eligible costs	N/A	Rescinded, reserved, and language removed
35.14	N/A	Ineligible costs	N/A	Rescinded, reserved, and language removed
35.15	N/A	Written agreement	N/A	Rescinded, reserved, and language removed
35.16	N/A	Financial assistance denial	N/A	Rescinded, reserved, and language removed