

**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-017R1

Expiration Date: June 23, 2019

Permit Renewal Application Deadline: December 23, 2018

EIQ Number: 92-6800

Facility File Number: 77-01-035

Responsible Official

Name: Andrew W. Hansen

Title: Factory Manager

**Mailing Address: 825 SW Irvinedale Drive
Ankeny, Iowa 50023**

Phone #: (515) 289-3083

Permit Contact Person for the Facility

Name: Charles R. Busch

Title: Environmental Engineer

**Mailing Address: 825 SW Irvinedale Drive
Ankeny, Iowa 50023**

Phone #: (515) 289-3429

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

For the Director of the Department of Natural Resources



Lori Hanson, Supervisor of Air Operating Permits Section

June 24, 2014

Date

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Abbreviations

acfm.....	actual cubic feet per minute
AERMOD.....	AMS/EPA Regulatory Model
AQD.....	Polk County Public Works- Air Quality Division
CAS.....	Chemical Abstract Service Registry
CE.....	Control Equipment
CEM.....	Continuous Emission Monitor
CFR.....	Code of Federal Regulation
DNR.....	Iowa Department of Natural Resources
°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
MACT.....	Maximum Achievable Control Technology
µg/m ³	Micrograms per Cubic Meter
MM BTU/ Hr.....	Million British Thermal Units per Hour
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
psia.....	pounds per square inch absolute
lb./hr.....	pounds per hour
lb./MMBtu.....	pounds per Million British thermal units
SCC.....	Source Classification Codes
scfm.....	standard cubic feet per minute
sdcfm.....	standard dry cubic feet per minute
SIC.....	Standard Industrial Classification
TPY.....	Tons Per Year
USEPA.....	United States Environmental Protection Agency
VCU.....	Vapor Combustion Unit

Pollutants

GHG.....	Green House Gas
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-017R1

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

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	Polk County Construction Permit Number
01-28	01-28	6213 Wheelabrator Shot Blast	0432
02-01	02-01	1062 Chrome Plating Tank, with Composite Mesh Pad Vertical Mist Eliminator	0890 Modified #2
02-02	02-02	Acid Dip for Chrome Plating Line, with 1062 Electropolish Vent	2528
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 or propane	2273
02-32	02-32	George Koch & Sons 4 MM Btu/hr Pre E-Coat Dry Off Oven, Combusting Natural Gas or Propane	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 or Propane	2032 Modified
02-38	02-38	Cleaver Brooks 400 BHP (13.4 MMBtu/hr) West Boiler Combusting Natural Gas or Propane	2518 Modified
02-39	02-39	Cleaver Brooks 400 BHP (13.4 MMBtu/hr) East Boiler Combusting Natural Gas or Propane	2516
02-40	02-40	0.4228 MMBtu/ hr 6262 S.C. Atmospheric Generator Combusting Natural Gas	0902
02-44	02-44	Surface Combustion 0.1 MMBtu/hr 6346 Temper Furnace (D39) Combusting Natural Gas or Propane	0903 Modified #2
02-60	02-47	Williams Industries Model 3600 1000 Btu/hr Natural Gas Endothermic Generator	1740 Modified
02-51	02-51	7153 Chrome Plating Tank with KCH Spectr U-111-9000 Composite Mesh Pad Vertical Mist Eliminator	0807 Modified #2

Emission Point Number	Emission Unit Number	Emission Unit Description	Polk County Construction Permit Number
02-52	02-52	Electropolish pretreatment tank and two warm water rinse tanks on hard chrome plating machine - T1, T3, and T4 with Centrifugal moisture extractor	0808
02-OXf	02-OX2	(1) Lissmac Model SBM 1500-A Oxide Removers, with Torit Model TD 486 Dust Collector	2103 Modified
03-OXf	02-OX1, 03-OX1	(2) Lissmac Model SBM 1500-A Oxide Removers, with Torit Model TD 486 Dust Collector	2103 Modified
03-02	03-02	Cleaver Brooks 300 BHP (10.04 MM Btu/hr) Boiler	2517
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	1608 Modified #2
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 or Propane	1830 Modified
11-09	11-10	Rotational Engineering Model CH130, 700 lb/hr Rotomold Machine	1829
11-10			
11-11			
11-12	11-12	Flame Cut Table	0833 Modified
11-13	11-13	Rotomold Pre-cool and Cooling Chambers	2334
11-14			
11-15	11-15	500 lb/hr Ovenpak LE Rotomold Machine Oven with 4.5 MMBtu/hr, Maxon Low Emission Burners combusting natural gas or propane	2334
16-01	16-01	Building 16 Clarke Model JU6H-UF60 1.411 MMBtu/hr 240 Bhp Diesel Fire Pump	1826
18-18	18-01-OVEN	Schweitzer 5.6 MMBtu/hr Building 18 Spray Paint Booth Oven Combusting Natural Gas or Propane	1831 Modified
18-17	18-17	4 MMBtu/hr Building 18 Paint Booth Dry Off Oven Combusting Natural Gas or Propane	1531 Modified #2

Emission Point Number	Emission Unit Number	Emission Unit Description	Polk County Construction Permit Number
26-01	26-01	7377 Wheelabrator Shot Blast with 7377 Torit Model DFT3-12 Dust Collector	1816
26-02	26-02	Building 26 Tube Blow Out Booth with Torit Model ECB-31332 Baghouse	2123
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-02X	CT-02X	Marley Model 047306/A92522A 86 gallon/minute Cooling Tower	2087
CT-02	CT-02	Marley Model AQ495M1SAF Cooling Tower	2527
JAN-FUG; PW-FUG; HAP-FUG	F01-01; F01-02; F01-03	Plant Wide Fugitives; Janitorial Fugitives; and HAP Fugitives	Exempt
02-G1	02-G1	CNC Doffer Grinder with (CE 02-G1): Torit Model 7080 Dry Fabric Filter Dust Collector	2122 Modified
02-G2	02-G2A 02-G2B 02-G2C 02-G2D	Cincinatti Centerless Grinder, Cincinatti Centerless Grinder, Cincinatti Centerless Grinder, Cincinatti Centerless Grinder, all with (CE 02-G2): Torit Model W50-25 Dry Fabric Filter Dust Collector	2122 Modified
02-G3	02-G3A 02-G3B 02-G3C	Cincinatti Centerless Grinder, Cincinatti Centerless Grinder, Cincinatti Centerless Grinder, all with (CE 02-G3): Torit Model W50-25 Dry Fabric Filter Dust Collector	2122 Modified
02-G4	02-G4	Mori Seiki SH-400 Machining Center with (CE 02-G4): Mist Blasters Model SH-400 Particulate Filter	2122 Modified
02-G5	02-G5	Mori Seiki SH-400 Machining Center with (CE 02-G5): Mist Blasters Model SH-400 Particulate Filter	2122 Modified
02-G6	02-G6	Okuma CNC LB15-MW Lathe with (CE 02-G6): Torit Model LB15-MWT Particulate Filter	2122 Modified
02-G7	02-G7	Okuma CNC LB15-MW Lathe with (CE 02-G7): Torit Model LB15-MWT Particulate Filter	2122 Modified
Engine Exhausts	18-1801	Engine Exhaust Stations – Multiple Exhaust Pick-ups (62), Engine Maximum 1,000 hp (44.0 gallon/hr per station)	1606 Modified #2
LCf	01-LC1	Trumpf 5000 Watt Laser Cutter	2069 Modified #5
LCf	01-LC2	Trumpf 5000 Watt Laser Cutter	2069 Modified #5
LCf	01-LC3	Trumpf 5000 Watt Laser Cutter	2069 Modified #5

Emission Point Number	Emission Unit Number	Emission Unit Description	Polk County Construction Permit Number
LCf	01-LC4	Trumpf 5000 Watt Laser Cutter	2069 Modified #5
LCf	01-LC5	Trumpf 5000 Watt Laser Cutter	2069 Modified #5
LCf	01-LC6	Trumpf 5000 Watt Laser Cutter	2069 Modified #5
LCf	02-LC1	Trumpf 5000 Watt Laser Cutter	2069 Modified #5
LCf	02-LC2	Trumpf 5000 Watt Laser Cutter	2069 Modified #5
LCf	02-LC3	Trumpf 5000 Watt Laser Cutter	2069 Modified #5
LCf	02-LC4	Trumpf 5000 Watt Laser Cutter	2069 Modified #5
LCf	02-LC5	Trumpf 5000 Watt Laser Cutter	2069 Modified #5
LCf	02-LC6	Trumpf 5000 Watt Laser Cutter	2069 Modified #5
LCf	02-LC7	Trumpf 5000 Watt Laser Cutter	2069 Modified #5
LCf	02-LC10	Cincinnati 3299 Watt Laser Cutter with Torit Fabric Filter	2069 Modified #5
LCf	02-LC11	Trumpf 5000 Watt Laser Cutter	2069 Modified #5
LCf	03-LC1	Trumpf 5000 Watt Laser Cutter	2069 Modified #5
LCf	03-LC2	Trumpf 5000 Watt Laser Cutter	2069 Modified #5
LCf	03-LC3	Trumpf 5000 Watt Laser Cutter	2069 Modified #5
LCf	03-LC4	Trumpf 5000 Watt Laser Cutter	2069 Modified #5
LCf	26-LC1	Balliu 3 Axis Tube Cutting Laser with Torit Fabric Filter	2069 Modified #5
LCf	26-LC5	BLM Tube Laser with Torit Fabric Filter	2069 Modified #5
01-TU1, 01-TU2	01-TU	Vehicle Touch-Up Spray Booth, with Dry Fabroc Filters	2233 Modified #5
02-18 thru 02-26, 02-31, 02-61	02-30	D-19 E-Coat Dip Tank	2233 Modified #5

Emission Point Number	Emission Unit Number	Emission Unit Description	Polk County Construction Permit Number
02-18 thru 02-26, 02-31, 02-61	02-31	(5) – 3 MMBtu/hr Drying Burners combusting natural gas with propane backup	2233 Modified #5
03-03	03-03	D20A Touch-Up Paint Booth, with Dry Filters	2233 Modified #5
03-06, 03-07, 03-08, 03-15, 03-20, 04-01	03-04	D-20A Black Paint Dip Tank	2233 Modified #5
03-21, 03-22, 03-24, 03-25, 03-36, 03-37	03-21	D-20A North and South Paint Booths, with Dry Filters	2233 Modified #5
03-21, 03-22, 03-24, 03-25	03-22	(1) – 5 MMBtu/hr Burner combusting natural gas with propane backup, with Dry Filters	2233 Modified #5
03-21, 03-22, 03-24, 03-25	03-23	(1) – 5 MMBtu/hr, Burner combusting natural gas with propane backup, with Dry Filters	2233 Modified #5
03-21, 03-22, 03-24, 03-25	03-24	(1) – 1.65 MMBtu/hr Burner combusting natural gas with propane backup, with Dry Filters	2233 Modified #5
03-21, 03-22, 03-24, 03-25	03-25	(1) – 2.6 MMBtu/hr Burner combusting natural gas with propane backup, with Dry Filters	2233 Modified #5
03-21, 03-22, 03-24, 03-25	03-26	(1) – 3.96 MMBtu/hr Burner combusting natural gas with propane backup, with Dry Filters	2233 Modified #5
12-05	12-05	D-51 Maintenance Spray Booth, with Dry Filters	2233 Modified #5

Emission Point Number	Emission Unit Number	Emission Unit Description	Polk County Construction Permit Number
Weld01f	Weld01	GMAW/SMAW Welding	2596
T-59	T-59	B14 Unleaded Gas Storage Tank – 6,000 gallons	Exempt

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
02-41	1240 Integral Quench Furnace (max 0.600,000 MMBtu/hr)
02-42	7191 Integral Quench Furnace (max 0.600,000 MMBtu/hr)
02-43	5267 Integral Quench Furnace (max 0.600,000 MMBtu/hr)
02-45	1022 Internal Quench Furnace (max 0.600,000 MMBtu/hr)
02-46	Rust Prevention Tank (41 max gallons – 15 gallons operating level) (Currently uses – Katz 5550 which contains no SARA 312/313, pH 7.0-9.0)
03-09	Caustic Strip Tank- 2,870 gallons
03-99	B3 Smith Hydronic Boiler (0.670,000 MMBtu/hr)
12-01	Heat Treat I.Q. Furnace (0.275,000 MMBtu/hr) (Installed Jan '68 – grandfathered before Sept 1970)
18-21	Building 18 Wash Booth
HEAVY	Miscellaneous Heavy Oils
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 – 1,800 gallons
T-68	B2 Dirty Oil Storage Tank – 1,800 gallons
T-69	B2 Humble H46 Storage Tank – 1,350 gallons
T-70	B2 Cutting Oil Storage Tank – 1,350 gallons
T-75	B16 Used Oil Storage Tank #1 – 4,000 gallons
T-76	B16 Used Oil Storage Tank #2 – 4,000 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 - 900 gallons

II. Plant-Wide Conditions

Facility Name: John Deere Des Moines Works
Permit Number: 04-TV-017R1

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

Permit Duration

The term of this permit is: 5 years
Commencing on: June 24, 2014
Ending on: June 23, 2019

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

Emission Limits

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

Opacity (visible emissions): <20% opacity

Authority for Requirement: Polk County Board of Health Rules and Regulations:
Chapter V, Article IV, Section 5-9

Sulfur Dioxide (SO₂): 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 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"

Pollutant: CO₂e

Emission Limit: 94,000 TPY*

Authority for Requirement: Polk County AQD Construction Permit #2518 Modified

Process throughput:

- The owner or operator shall not exceed 1,340,681 MMBtu/yr energy usage, of natural gas and propane combined, for the facility.

Reporting & Record keeping:

- The owner or operator shall record monthly the (*plant-wide*) natural gas usage, (*and*) propane usage. Usage shall be converted to Btu's with the following conversions: natural gas 1020 Btu/cf, propane 91,500 Btu/gallon.
- Said record shall include the total combined 12 month Btu (*plant-wide*) usage rolled monthly and the rolling 12 month total CO₂e emissions, rolled monthly.
- Records shall be maintained on site for a minimum period of five years and be made available to representatives of this department upon request.

Authority for Requirement: Polk County AQD Construction Permit #2518 Modified

HAPs

Facility wide HAP limit shall be 9.4 TPY* (any single HAP), 24.4 TPY* (all HAPs combined)

Authority for Requirement: Polk County AQD Construction Permit #2233 Modified #5

*Denotes a Facility wide limit

III. Emission Point-Specific Conditions

Facility Name: John Deere Des Moines Works

Permit Number: 04-TV-017R1

Emission Point ID Number: 01-28

Associated Equipment

Emissions Control Equipment ID Number: CE 01-28

Emissions Control Equipment Description: Torit Baghouse

Emission Unit vented through this Emission Point: 01-28

Emission Unit Description: 6213 Wheelabrator Shot Blast

Raw Material/Fuel: Steel Shot

Rated Capacity: 0.46 Tons/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% opacity

Authority for Requirement: Polk County Board of Health Rules and Regulations:

Chapter V, Article IV, Section 5-9

Polk County AQD Construction Permit #0432

Pollutant: PM

Emission Limit: 0.10 gr./dscf

Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V,
Article VI, Section 5-14(b)

Pollutant: PM₁₀

Emission Limit: 0.002 gr./dscf

Authority for Requirement: Polk County AQD Construction Permit #0432

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 #0432

Monitoring Requirements

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

EP 01-28 shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer’s signature, and whether any emissions were observed. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity $\geq 20\%$ is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day when weather permits. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 02-01

Associated Equipment

Emissions Control Equipment ID Number: CE 02-01

Emissions Control Equipment Description: Composite Mesh Pad Vertical Mist Eliminator, KCH Spectr U-111-9000

Emission Unit vented through this Emission Point: 02-01

Emission Unit Description: 1062 Chrome Plating Tank

Raw Material/Fuel: Steel Spindles

Rated Capacity: 38,880 spindles/ 24 hours

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: No Visible Emissions

Authority for Requirement: Polk County AQD Construction Permit #0890 Modified #2

Pollutant: PM / PM₁₀ / PM_{2.5}

Emission Limits: 0.79 lb./hr.

3.46 TPY

0.01 gr./dscf (for PM only)

Authority for Requirement: Polk County AQD Construction Permit #0890 Modified #2

Pollutant: HAP (Total Chromium)

Emission Limits: 0.00033 lb./hr.

0.0014 TPY

0.0097 milligrams/dscm

Authority for Requirement: 40 CFR 63 Subpart N

567 IAC 23.1(4) "n"

Polk County Board of Health Rules and Regulations:

Chapter V, Article VIII, Section 5-20 (n)

Polk County AQD Construction Permit #0890 Modified #2

Operational Limits & Requirements

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

The permittee shall comply with all applicable requirements from 40 CFR 63, Subpart N (National Emission Standards for Chromium Emissions from Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks). The permittee shall also comply with 40 CFR 63, Subpart A (General Provisions), according to the applicable requirements identified in Table 1 of Subpart N.

Work practice standards:

Summary of Work Practice Standards

Composite mesh-pad (CMP) system, Vertical Mist Eliminator and fan separator* on 1062 Chrome plater.	1. Visually inspect fiber bed unit and pre-filtering device to ensure there are proper drainage, no chromic acid buildup in the units, and no evidence of chemical attack on the structural integrity of the devices.	Once per quarter
	2. Visually inspect back portion of the mesh pad closest to the fan to ensure there is no breakthrough of chromic acid mist.	Once per quarter
	3. Visually inspect ductwork from tanks or tanks to the control device to ensure there are no leaks.	Once per quarter
	4. Perform washdown of fiber elements in accordance with manufacturers recommendations.	Per manufacturer
	5. §63.343 Compliance provisions. (c)(1)(ii) On and after the date on which the initial performance test is required to be completed under §63.7, the owner or operator of an affected source, or group of affected sources under common control, shall monitor and record the pressure drop across the composite mesh-pad system once each day that any affected source is operating. To be in compliance with the standards, the composite mesh-pad system shall be operated within ±2 inches of water column of the pressure drop value established during the initial performance test, or shall be operated within the range of compliant values for pressure drop established during multiple performance tests. <i>(The initial performance test result was 1.89 inches of water column.)</i>	Initial performance test <i>(completed November 5, 1996)</i>

* Work practice standards for the control device installed upstream of the mist eliminator to prevent plugging do not apply as long as the work practice standards for the mist eliminator unit are followed. The fan separator was not operated during the initial compliance test.

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

Reporting & Record keeping:

Summary of record keeping requirements

The owner or operator shall maintain the following records.	
All recordkeeping requirements outlined in 40 CFR 63.346 Recordkeeping requirements and in the General Provisions to 40 CFR Part 63	
Compliance status reports for major sources	Two times per year, or four times per year if exceedances occur or if requested by administrator. (<i>Due March 31 and September 30 each year to Polk County AQD.</i>)

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

- The owner or operator shall comply with all applicable requirements of 40 CFR 63 subpart N-National Emission Standards for Chromium Emissions from Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks.
- The owner or operator shall comply with the applicable standards of §63.342.
- The owner or operator shall comply with the *Operation and Maintenance Practices* of §63.342(f).
- The owner or operator shall comply with the *Compliance Provisions* of §63.343.
- The owner or operator shall conduct all performance testing in accordance with §63.344.
- The owner or operator shall comply with the emission standards of §63.344(e).
- The owner or operator shall comply with the recordkeeping requirements of §63.346.
- The owner or operator shall comply with the reporting requirements of §63.347.

Authority for Requirement: 40 CFR 63 Subpart N
 567 IAC 23.1(4) "n"
 Polk County Board of Health Rules and Regulations:
 Chapter V, Article VIII, Section 5-20 (n)
 Polk County AQD Construction Permit #0890 Modified #2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height: 38 feet (from the ground)

Stack Opening: 24 inches (diameter)

Exhaust Flow Rate: 9,200 scfm

Exhaust Temperature: 70°F

Discharge Style: vertical, unobstructed

Authority for Requirement: Polk County AQD Construction Permit #0890 Modified #2

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

Monitoring Requirements

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

The pressure drop across the composite mesh-pad (CMP) system (CE 02-01) on #1062 Chrome plating tank shall be observed and recorded once per day. The pressure drop across the composite mesh-pad (CMP) system (CE 02-01) on #1062 Chrome plating tank shall be operated within ± 2 inches of water column of the pressure drop value established during the performance test (*1.89 inches of water column established in initial test*). If the pressure drop exceeds plus or minus two (2) inches of water column of the pressure drop value established during the performance test, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the exceedance. The observation shall be noted in a log book, which shall state the date, time, and observer's signature. The log book will be maintained on site for 5 years and be made available to representatives of Polk County Air Quality Division upon request.

Emission Point (02-01) shall be visually checked for observable emissions once every week by a designated observer. The observation shall be noted in a log book, which shall state the date, time, observer's signature and whether any emissions are observed. If an opacity is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits. The log book will be maintained on site for 5 years and be made available to representatives of Polk County Air Quality Division upon request.

- The owner or operator shall fulfill all monitoring requirements contained in 40 CFR §63.343 (c)(7)

Authority for Requirement: 40 CFR 63 Subpart N
 567 IAC 23.1(4) "n"
 Polk County Board of Health Rules and Regulations:
 Chapter V, Article VIII, Section 5-20 (n)
 Polk County AQD Construction Permit #0890 Modified #2

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

40 CFR 63.342 (f)

Operation and maintenance practices. All owners or operators subject to the standards in paragraphs (c) and (d) of this section are subject to these operation and maintenance practices.

(1)(i) At all times, including periods of startup, shutdown, and malfunction, owners or operators shall operate and maintain any affected source, including associated air pollution control devices and monitoring equipment, in a manner consistent with good air pollution control practices.

(ii) Malfunctions shall be corrected as soon as practicable after their occurrence.

(iii) Operation and maintenance requirements established pursuant to section 112 of the Act are enforceable independent of emissions limitations or other requirements in relevant standards.

(2)(i) Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to the Administrator, which may include, but is not limited to, monitoring results; review of the operation and maintenance plan, procedures, and records; and inspection of the source.

(ii) Based on the results of a determination made under paragraph (f)(2)(i) of this section, the Administrator may require that an owner or operator of an affected source make changes to the operation and maintenance plan required by paragraph (f)(3) of this section for that source. Revisions may be required if the Administrator finds that the plan:

(A) Does not address a malfunction that has occurred;

(B) Fails to provide for the proper operation of the affected source, the air pollution control techniques, or the control system and process monitoring equipment during a malfunction in a manner consistent with good air pollution control practices; or

(C) Does not provide adequate procedures for correcting malfunctioning process equipment, air pollution control techniques, or monitoring equipment as quickly as practicable.

(3) Operation and maintenance plan. (i) The owner or operator of an affected source subject to paragraph (f) of this section shall prepare an operation and maintenance plan no later than the compliance date. The plan shall be incorporated by reference into the source's title V permit, if and when a title V permit is required. The plan shall include the following elements:

(A) The plan shall specify the operation and maintenance criteria for the affected source, the add-on air pollution control device (if such a device is used to comply with the emission limits), and the process and control system monitoring equipment, and shall include a standardized checklist to document the operation and maintenance of this equipment;

(B) For sources using an add-on control device or monitoring equipment to comply with this subpart, the plan shall incorporate the operation and maintenance practices for that device or monitoring equipment, as identified in Table 1 of this section, if the specific equipment used is identified in Table 1 of this section;

(C) If the specific equipment used is not identified in Table 1 of this section, the plan shall incorporate proposed operation and maintenance practices. These proposed operation and maintenance practices shall be submitted for approval as part of the submittal required under § 63.343(d);

(D) The plan shall specify procedures to be followed to ensure that equipment or process malfunctions due to poor maintenance or other preventable conditions do not occur; and

(E) The plan shall include a systematic procedure for identifying malfunctions of process equipment, add-on air pollution control devices, and process and control system monitoring equipment and for implementing corrective actions to address such malfunctions.

(F) The plan shall include housekeeping procedures, as specified in Table 2 of this section.

(ii) If the operation and maintenance plan fails to address or inadequately addresses an event that meets the characteristics of a malfunction at the time the plan is initially developed, the owner or operator shall revise the operation and maintenance plan within 45 days after such an event occurs. The revised plan shall include procedures for operating and maintaining the process equipment, add-on air pollution control device, or monitoring equipment during similar malfunction events, and a program for corrective action for such events.

(iii) Recordkeeping associated with the operation and maintenance plan is identified in §63.346(b). Reporting associated with the operation and maintenance plan is identified in §63.347 (g) and (h) and paragraph (f)(3)(iv) of this section.

(iv) If actions taken by the owner or operator during periods of malfunction are inconsistent with the procedures specified in the operation and maintenance plan required by paragraph (f)(3)(i) of this section, the owner or operator shall record the actions taken for that event and shall report by phone such actions within 2 working days after commencing actions inconsistent with the plan. This report shall be followed by a letter within 7 working days after the end of the event, unless the owner or operator makes alternative reporting arrangements, in advance, with the Administrator.

(v) The owner or operator shall keep the written operation and maintenance plan on record after it is developed to be made available for inspection, upon request, by the Administrator for the life of the affected source or until the source is no longer subject to the provisions of this subpart. In addition, if the operation and maintenance plan is revised, the owner or operator shall keep previous (i.e., superseded) versions of the operation and maintenance plan on record to be made available for inspection, upon request, by the Administrator for a period of 5 years after each revision to the plan.

(vi) To satisfy the requirements of paragraph (f)(3) of this section, the owner or operator may use applicable standard operating procedure (SOP) manuals, Occupational Safety and Health Administration (OSHA) plans, or other existing plans, provided the alternative plans meet the requirements of this section.

(g) The standards in this section that apply to chromic acid baths shall not be met by using a reducing agent to change the form of chromium from hexavalent to trivalent.

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 40 CFR 63 Subpart N
567 IAC 23.1(4) "n"
Polk County Board of Health Rules and Regulations:
Chapter V, Article VIII, Section 5-20 (n)
567 IAC 22.108(3)

Emission Point ID Number: 02-02

Associated Equipment

Emissions Control Equipment ID Number: 02-02

Emissions Control Equipment Description: KCH Centrifugal Mist Eliminator

Emission Unit vented through this Emission Point: 02-02

Emission Unit Description: Acid Dip for Chrome Plating Line, with 1062 Electropolish Vent

Raw Material/Fuel: spindles

Rated Capacity: 1,620 parts/ hour

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit: <20% opacity

Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V,
Article IV, Section 5-9
Polk County AQD Construction Permit #2528

Pollutant: PM/ PM₁₀

Emission Limit: 0.31 lbs./hr.,
1.36 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 #2528

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 #2528

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height: 37 feet (from the ground)

Stack Opening: 22.6 inches (diameter)

Exhaust Flow Rate: 6,460 scfm

Exhaust Temperature: 90 °F

Discharge Style: vertical, unobstructed

Authority for Requirement: Polk County AQD Construction Permit #2528

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

Monitoring Requirements

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

Emission point (02-02) shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer’s signature, and whether any emissions were observed. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity $\geq 20\%$ is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 02-P10

Emission Unit vented through this Emission Point: 02-10

Emission Unit Description: 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

Raw Material/Fuel: natural gas or propane

Rated Capacity: 39.4 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% opacity

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: PM/ PM₁₀

Emission Limit: 0.31 lbs./hr.,
1.32 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 #2273

Pollutant: SO_x

Emission Limit: 0.65 lbs./hr.,
2.83 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: NOx
Emission Limit: 5.6 lbs./hr. and
24.52 TPY
Authority for Requirement: Polk County AQD Construction Permit #2273

Pollutant: VOC
Emission Limit: 0.44 lbs./hr. and
1.89 TPY
Authority for Requirement: Polk County AQD Construction Permit #2273

Pollutant: CO
Emission Limit: 3.25 lbs./hr. and
14.21 TPY
Authority for Requirement: Polk County AQD Construction Permit #2273

NESHAP Requirements:

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

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

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 #2273

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height: 45.0 feet (from the ground)
Stack Opening: 51 inches (diameter)
Exhaust Flow Rate: 34,560 scfm
Exhaust Temperature: 450 °F
Discharge Style: vertical, unobstructed
Authority for Requirement: Polk County AQD Construction Permit #2273

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department 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 22.108(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 or propane
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% opacity

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: PM/ PM₁₀

Emission Limit: 0.03 lbs./hr.,
0.13 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 #1827 Modified

Pollutant: SO_x

Emission Limit: 0.01 lbs./hr.,
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: NOx

Emission Limit: 0.57 lbs./hr. and
2.50 TPY

Authority for Requirement: Polk County AQD Construction Permit #1827 Modified

Pollutant: VOC

Emission Limit: 0.02 lbs./hr. and
0.09 TPY

Authority for Requirement: Polk County AQD Construction Permit #1827 Modified

Pollutant: CO

Emission Limit: 0.33 lbs./hr. and
1.45 TPY

Authority for Requirement: Polk County AQD Construction Permit #1827 Modified

NESHAP Requirements:

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

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

Polk County Board of Health Rules and Regulations:
Chapter V, Article VIII, Section 5-20 (mmmm)

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 #1827 Modified

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height: 43 feet (from the ground)

Stack Opening: 18 inches (diameter)

Exhaust Flow Rate: 1,891 scfm

Exhaust Temperature: 350 °F

Discharge Style: vertical, unobstructed

Authority for Requirement: Polk County AQD Construction Permit #1827 Modified

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department 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 22.108(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 or Propane
Rated Capacity: 10.6 MM Btu/ 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% opacity
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: PM/ PM₁₀
Emission Limit: 0.09 lbs./hr.,
0.39 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 #2032 Modified

Pollutant: SO_x
Emission Limit: 0.01 lbs./hr.,
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: NO_x

Emission Limit: 1.51 lbs./hr. and
6.61TPY

Authority for Requirement: Polk County AQD Construction Permit #2032 Modified

Pollutant: VOC

Emission Limit: 0.06 lbs./hr. and
0.25 TPY

Authority for Requirement: Polk County AQD Construction Permit #2032 Modified

Pollutant: CO

Emission Limit: 0.87 lbs./hr. and
3.81 TPY

Authority for Requirement: Polk County AQD Construction Permit #2032 Modified

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 #2032 Modified

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height: 36 feet (from the ground)

Stack Opening: 20 inches (diameter)

Exhaust Flow Rate: 1,891 scfm

Exhaust Temperature: 100 °F

Discharge Style: vertical, unobstructed

Authority for Requirement: Polk County AQD Construction Permit #2032 Modified

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department 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 22.108(3)

Emission Point ID Number: 02-38

Emission Unit vented through this Emission Point: 02-38
Emission Unit Description: Cleaver Brooks 400 BHP West Boiler
Raw Material/Fuel: Natural Gas or propane
Rated Capacity: 13.4 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% opacity

Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V,
Article IV, Section 5-9
Polk County AQD Construction Permit #2518 Modified

Pollutant: PM/ PM₁₀

Emission Limit: 0.12 lbs./hr.,
0.51 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 #2518 Modified

Pollutant: SO_x

Emission Limit: 0.01 lbs./hr.,
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 #2518 Modified

Pollutant: NOx
Emission Limit: 1.90 lbs./hr. and
8.34 TPY
Authority for Requirement: Polk County AQD Construction Permit #2518 Modified

Pollutant: VOC
Emission Limit: 0.07 lbs./hr. and
0.32 TPY
Authority for Requirement: Polk County AQD Construction Permit #2518 Modified

Pollutant: CO
Emission Limit: 1.10 lbs./hr. and
4.83 TPY
Authority for Requirement: Polk County AQD Construction Permit #2518 Modified

Pollutant: CO2e
Emission Limit: 94,000 TPY*
Authority for Requirement: Polk County AQD Construction Permit #2518 Modified

*Denotes a Facility wide limit

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 1,340,681 MMBtu/yr energy usage, of natural gas and propane combined, for the facility.

Work practice standards:

- Routine maintenance and inspection.

Reporting & Record keeping:

- Tune-up, maintenance and inspection records shall be kept on site for a minimum period of five years and will be made available to representatives of this department upon request.
- The owner or operator shall record monthly the (*plant-wide*) natural gas usage, (*and*) propane usage. Usage shall be converted to Btu's with the following conversions: natural gas 1020 Btu/cf, propane 91,500 Btu/gallon.
- Said record shall include the total combined 12 month Btu (*plant-wide*) usage rolled monthly and the rolling 12 month total (*plant-wide*) CO2e emissions, rolled monthly.
- Records shall be maintained on site for a minimum period of five years and be made available to representatives of this department upon request.

Authority for Requirement: Polk County AQD Construction Permit #2518 Modified

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height: 40 feet (from the ground)

Stack Opening: 24 inches (diameter)

Exhaust Flow Rate: 9,606 scfm

Exhaust Temperature: 400 °F

Discharge Style: vertical, unobstructed

Authority for Requirement: Polk County AQD Construction Permit #2518 Modified

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department 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 22.108(3)

Emission Point ID Number: 02-39

Emission Unit vented through this Emission Point: 02-39
Emission Unit Description: Cleaver Brooks 400 BHP East Boiler
Raw Material/Fuel: Natural Gas or propane
Rated Capacity: 13.4 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% opacity

Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V,
Article IV, Section 5-9
Polk County AQD Construction Permit #2516

Pollutant: PM/ PM₁₀

Emission Limit: 0.12 lbs./hr.,
0.51 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 #2516

Pollutant: SO_x

Emission Limit: 0.01 lbs./hr.,
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 #2516

Pollutant: NO_x

Emission Limit: 1.90 lbs./hr. and
8.34TPY

Authority for Requirement: Polk County AQD Construction Permit #2516

Pollutant: VOC

Emission Limit: 0.07 lbs./hr. and
0.32 TPY

Authority for Requirement: Polk County AQD Construction Permit #2516

Pollutant: CO

Emission Limit: 1.10 lbs./hr. and
4.83 TPY

Authority for Requirement: Polk County AQD Construction Permit #2516

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 #2516

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height: 40 feet (from the ground)

Stack Opening: 24 inches (diameter)

Exhaust Flow Rate: 9,606 scfm

Exhaust Temperature: 400 °F

Discharge Style: vertical, unobstructed

Authority for Requirement: Polk County AQD Construction Permit #2516

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department 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 22.108(3)

Emission Point ID Number: 02-40

Emission Unit vented through this Emission Point: 02-40
Emission Unit Description: 6262 S.C. Atmospheric Generator
Raw Material/Fuel: Natural Gas
Rated Capacity: 0.4228 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: No Visible Emissions
Authority for Requirement: Polk County AQD Construction Permit #0902

Pollutant: PM/ PM₁₀
Emission Limits: 0.00497 lbs./hr. and
0.0218 TPY
Authority for Requirement: Polk County AQD Construction Permit #0902

Pollutant: SO_x
Emission Limits: 0.00025 lbs./hr. and
0.0011 TPY
Authority for Requirement: Polk County AQD Construction Permit #0902

Pollutant: NO_x
Emission Limit: 0.04140 lbs./hr. and
0.1813 TPY
Authority for Requirement: Polk County AQD Construction Permit #0902

Pollutant: VOC
Emission Limit: 0.00219 lbs./hr. and
0.0096 TPY
Authority for Requirement: Polk County AQD Construction Permit #0902

Pollutant: CO
Emission Limit: 0.00869 lbs./hr. and
0.0381 TPY
Authority for Requirement: Polk County AQD Construction Permit #0902

Operational Limits & Requirements

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

Work practice standards: Maximum of 414 ft³/ hour Natural Gas
Authority for Requirement: Polk County Construction Permit #0902

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height: 31.8 feet (from the ground)
Stack Opening: 8.4 inches (diameter)
Exhaust Flow Rate: 140 acfm
Exhaust Temperature: 400 °F
Discharge Style: vertical, unobstructed
Authority for Requirement: Polk County AQD Construction Permit #0902

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department 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 22.108(3)

Emission Point ID Number: 02-44

Associated Equipment

Emissions Control Equipment ID Number: 02-44

Emissions Control Equipment Description: Fan Pack Mist Collection Unit

Emission Unit vented through this Emission Point: 02-44

Emission Unit Description: Surface Combustion 6346 Temper Furnace (D39)

Raw Material/Fuel: Natural gas or propane

Rated Capacity: 0.1 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% opacity

Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V,
Article IV, Section 5-9
Polk County AQD Construction Permit # 0903 Modified #2

Pollutant: PM/ PM₁₀

Emission Limit: 0.001 lbs./hr.,
0.004 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 # 0903 Modified #2

Pollutant: SO_x

Emission Limit: 0.001 lbs./hr.,
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 # 0903 Modified #2

Pollutant: NO_x

Emission Limit: 0.014 lbs./hr. and
0.062TPY

Authority for Requirement: Polk County AQD Construction Permit # 0903 Modified #2

Pollutant: VOC

Emission Limit: 0.001 lbs./hr. and
0.002 TPY

Authority for Requirement: Polk County AQD Construction Permit # 0903 Modified #2

Pollutant: CO

Emission Limit: 0.008 lbs./hr. and
0.036 TPY

Authority for Requirement: Polk County AQD Construction Permit # 0903 Modified #2

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 Construction Permit #0903 Modified #2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height: 32 feet (from the ground)

Stack Opening: 7 inches (diameter)

Exhaust Flow Rate: 500 scfm

Exhaust Temperature: 70 °F

Discharge Style: vertical, unobstructed

Authority for Requirement: Polk County AQD Construction Permit #0903 Modified #2

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

Monitoring Requirements

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

Emission Point (02-44): The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. If visible emissions are observed then a Method 9 observation will be required. If an opacity greater than or equal to 20% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: Polk County AQD Construction Permit # 0903 Modified #2
567 IAC 22.108(3)

Emission Point ID Number: 02-60

Emission Unit vented through this Emission Point: 02-47
Emission Unit Description: Williams Industries Model 3600 Endothermic Generator
Raw Material/Fuel: Natural gas
Rated Capacity: 1,000 Btu/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: No Visible Emissions
Authority for Requirement: Polk County AQD Construction Permit # 1740 Modified

Pollutant: PM/ PM₁₀
Emission Limit: 0.00001 lbs./hr.,
0.00003 TPY, and
0.01 gr./dscf
Authority for Requirement: Polk County AQD Construction Permit # 1740 Modified

Pollutant: SO_x
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 (5)
Polk County AQD Construction Permit # 1740 Modified

Pollutant: NO_x
Emission Limit: 0.0001 lbs./hr. and
0.00044TPY
Authority for Requirement: Polk County AQD Construction Permit # 1740 Modified

Pollutant: VOC
Emission Limit: 0.00001 lbs./hr. and
0.00002 TPY
Authority for Requirement: Polk County AQD Construction Permit # 1740 Modified

Pollutant: CO
Emission Limit: 0.00008 lbs./hr. and
0.00037 TPY
Authority for Requirement: Polk County AQD Construction Permit # 1740 Modified

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 Construction Permit #1740 Modified

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height: 32 feet (from the ground)

Stack Opening: 16 inches (diameter)

Exhaust Flow Rate: 500 acfm

Exhaust Temperature: 400 °F

Discharge Style: vertical, unobstructed

Authority for Requirement: Polk County AQD Construction Permit #1740 Modified

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department 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: Polk County AQD Construction Permit # 0903 Modified #2
567 IAC 22.108(3)

Emission Point ID Number: 02-51

Associated Equipment

Emissions Control Equipment ID Number: CE 02-51

Emissions Control Equipment Description: KCH Spectr U-111-9000 Composite Mesh Pad
Vertical Mist Eliminator

Emission Unit vented through this Emission Point: 02-51

Emission Unit Description: 7153 Chrome Plating Tank

Raw Material/Fuel: Spindles

Rated Capacity: 38,800 spindles/ 24 hours

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: No Visible Emissions

Authority for Requirement: Polk County AQD Construction Permit # 0807 Modified #2

Pollutant: PM/ PM₁₀ / PM_{2.5}

Emission Limit: 1.15 lbs./hr.,
5.05 TPY, and
0.01 gr./dscf (for PM only)

Authority for Requirement: Polk County AQD Construction Permit # 0807 Modified #2

Pollutant: HAP (Total Chromium)

Emission Limit: 0.00049 lbs./hr.,
0.0022 TPY, and
0.0098 milligrams/dscm

Authority for Requirement: 40 CFR 63 Subpart N
567 IAC 23.1(4)"n"
Polk County Board of Health Rules and Regulations:
Chapter V, Article VIII, Section 5-20 (n)
Polk County AQD Construction Permit #0807 Modified #2

Operational Limits & Requirements

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

Work practice standards:

- All applicable provisions of 40 CFR Part 63 Subpart N shall be complied with.

The permittee shall comply with all applicable requirements from 40 CFR 63, Subpart N (National Emission Standards for Chromium Emissions from Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks). The permittee shall also comply with 40 CFR 63, Subpart A (General Provisions), according to the applicable requirements identified in Table 1 of Subpart N.

Summary of Work Practice Standards

Composite mesh-pad (CMP) Vertical Mist Eliminator system on 7153 Chrome Plating Tank.	1. Visually inspect fiber bed unit and pre-filtering device to ensure there are proper drainage, no chromic acid buildup in the units, and no evidence of chemical attack on the structural integrity of the device.	Once per quarter
	2. Visually inspect back portion of the mesh pad closest to the fan to ensure there is no breakthrough of chromic acid mist.	Once per quarter
	3. Visually inspect ductwork from tank to the control device to ensure there are no leaks.	Once per quarter
	4. Perform washdown of composite mesh-pads in accordance with manufacturers recommendations.	Per manufacturer
	5. §63.343 Compliance provisions. (c)(1)(ii) On and after the date on which the initial performance test is required to be completed under §63.7, the owner or operator of an affected source, or group of affected sources under common control, shall monitor and record the pressure drop across the composite mesh-pad system once each day that any affected source is operating. To be in compliance with the standards, the composite mesh-pad system shall be operated within ±2 inches of water column of the pressure drop value established during the initial performance test, or shall be operated within the range of compliant values for pressure drop established during multiple performance tests. <i>(The initial performance test result was 3.20 inches of water column.)</i>	Initial performance test <i>(completed 5/1/1998)</i>

Reporting & Record keeping:

Summary of record keeping requirements

The owner or operator shall maintain the following records.	
All recordkeeping requirements outlined in 40 CFR 63.346 Recordkeeping requirements and in the General Provisions to 40 CFR Part 63	
Compliance status reports for major sources	Two times per year, or four times per year if exceedances occur or if requested by administrator. (<i>Due March 31 and September 30 each year to Polk County AQD.</i>)

Authority for Requirement: 40 CFR 63 Subpart N
 567 IAC 23.1(4)"n"
 Polk County Board of Health Rules and Regulations:
 Chapter V, Article VIII, Section 5-20 (n)
 Polk County AQD Construction Permit #0807 Modified #2

Reporting & Record keeping:

- The owner or operator shall comply with the applicable standards of §63.342.
- The owner or operator shall comply with the *Operation and Maintenance Practices* of §63.342(f).
- The owner or operator shall comply with the *Compliance Provisions* of §63.343.
- The owner or operator shall conduct all performance testing in accordance with §63.344.
- The owner or operator shall comply with the emission standards of §63.344(e).
- The owner or operator shall comply with the recordkeeping requirements of §63.346.
- The owner or operator shall comply with the reporting requirements of §63.347.

Authority for Requirement: 40 CFR 63 Subpart N
 567 IAC 23.1(4)"n"
 Polk County Board of Health Rules and Regulations:
 Chapter V, Article VIII, Section 5-20 (n)
 Polk County AQD Construction Permit #0807 Modified #2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height: 38 feet (from the ground)

Stack Opening: 30 inches (diameter)

Exhaust Flow Rate: 13,400 scfm

Exhaust Temperature: 70°F

Discharge Style: vertical, unobstructed

Authority for Requirement: Polk County AQD Construction Permit #0807 Modified #2

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

Monitoring Requirements

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

- The owner or operator shall fulfill all monitoring requirements contained in 40 CFR §63.343.

The pressure drop across the composite mesh-pad (CMP) system (CE 02-51) on #7153 Chrome Plating Tank shall be observed and recorded once per day. The pressure drop across the composite mesh-pad (CMP) system (CE 02-51) on #7153 Chrome Plating Tank shall be operated within ± 2 inches of water column of the pressure drop value established during the performance test (*initial test results were 3.20 inches of water column*). If the pressure drop exceeds plus or minus two (2) inches of water column of pressure drop value established during the performance test, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the exceedance. The observation shall be noted in a log book, which shall state the date, time, and observer's signature. The log book will be maintained on site for 5 years and be made available to representatives of Polk County Air Quality Division upon request.

EP 02-51 shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer's signature, and whether any emissions were observed. If visible emissions are observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

40 CFR 63.342 (f)

Operation and Maintenance Practices. All owners or operators subject to the standards in paragraphs (c) and (d) of this section are subject to these operation and maintenance practices.

(1)(i) At all times, including periods of startup, shutdown, and malfunction, owners or operators shall operate and maintain any affected source, including associated air pollution control devices and monitoring equipment, in a manner consistent with good air pollution control practices.

(ii) Malfunctions shall be corrected as soon as practicable after their occurrence.

(iii) Operation and maintenance requirements established pursuant to section 112 of the Act are enforceable independent of emissions limitations or other requirements in relevant standards.

(2)(i) Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to the Administrator, which may include, but is not limited to, monitoring results; review of the operation and maintenance plan, procedures, and records; and inspection of the source.

(ii) Based on the results of a determination made under paragraph (f)(2)(i) of this section, the Administrator may require that an owner or operator of an affected source make changes to the operation and maintenance plan required by paragraph (f)(3) of this section for that source. Revisions may be required if the Administrator finds that the plan:

(A) Does not address a malfunction that has occurred;

(B) Fails to provide for the proper operation of the affected source, the air pollution control techniques, or the control system and process monitoring equipment during a malfunction in a manner consistent with good air pollution control practices; or

(C) Does not provide adequate procedures for correcting malfunctioning process equipment, air pollution control techniques, or monitoring equipment as quickly as practicable.

(3) Operation and maintenance plan. (i) The owner or operator of an affected source subject to paragraph (f) of this section shall prepare an operation and maintenance plan no later than the compliance date. The plan shall be incorporated by reference into the source's title V permit, if and when a title V permit is required. The plan shall include the following elements:

(A) The plan shall specify the operation and maintenance criteria for the affected source, the add-on air pollution control device (if such a device is used to comply with the emission limits), and the process and control system monitoring equipment, and shall include a standardized checklist to document the operation and maintenance of this equipment;

(B) For sources using an add-on control device or monitoring equipment to comply with this subpart, the plan shall incorporate the operation and maintenance practices for that device or monitoring equipment, as identified in Table 1 of this section, if the specific equipment used is identified in Table 1 of this section;

(C) If the specific equipment used is not identified in Table 1 of this section, the plan shall incorporate proposed operation and maintenance practices. These proposed operation and maintenance practices shall be submitted for approval as part of the submittal required under § 63.343(d);

(D) The plan shall specify procedures to be followed to ensure that equipment or process malfunctions due to poor maintenance or other preventable conditions do not occur; and

(E) The plan shall include a systematic procedure for identifying malfunctions of process equipment, add-on air pollution control devices, and process and control system monitoring equipment and for implementing corrective actions to address such malfunctions.

(F) The plan shall include housekeeping procedures, as specified in Table 2 of this section.

(ii) If the operation and maintenance plan fails to address or inadequately addresses an event that meets the characteristics of a malfunction at the time the plan is initially developed, the owner or operator shall revise the operation and maintenance plan within 45 days after such an event occurs. The revised plan shall include procedures for operating and maintaining the process equipment, add-on air pollution control device, or monitoring equipment during similar malfunction events, and a program for corrective action for such events.

(iii) Recordkeeping associated with the operation and maintenance plan is identified in §63.346(b). Reporting associated with the operation and maintenance plan is identified in §63.347 (g) and (h) and paragraph (f)(3)(iv) of this section.

(iv) If actions taken by the owner or operator during periods of malfunction are inconsistent with the procedures specified in the operation and maintenance plan required by paragraph (f)(3)(i) of this section, the owner or operator shall record the actions taken for that event and shall report by phone such actions within 2 working days after commencing actions inconsistent with the plan. This report shall be followed by a letter within 7 working days after the end of the event, unless the owner or operator makes alternative reporting arrangements, in advance, with the Administrator.

(v) The owner or operator shall keep the written operation and maintenance plan on record after it is developed to be made available for inspection, upon request, by the Administrator for the life of the affected source or until the source is no longer subject to the provisions of this subpart. In addition, if the operation and maintenance plan is revised, the owner or operator shall keep previous (i.e., superseded) versions of the operation and maintenance plan on record to be made available for inspection, upon request, by the Administrator for a period of 5 years after each revision to the plan.

(vi) To satisfy the requirements of paragraph (f)(3) of this section, the owner or operator may use applicable standard operating procedure (SOP) manuals, Occupational Safety and Health Administration (OSHA) plans, or other existing plans, provided the alternative plans meet the requirements of this section.

(g) The standards in this section that apply to chromic acid baths shall not be met by using a reducing agent to change the form of chromium from hexavalent to trivalent.

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 40 CFR 63 Subpart N
567 IAC 23.1(4)"n"
567 IAC 22.108(3)
Polk County Board of Health Rules and Regulations:
Chapter V, Article VIII, Section 5-20 (n)
Polk County AQD Construction Permit #0807 Modified #2

Emission Point ID Number: 02-52

Associated Equipment

Emissions Control Equipment ID Number: CE 02-52

Emissions Control Equipment Description: Centrifugal moisture extractor

Emission Unit vented through this Emission Point: 02-52

Emission Unit Description: Electropolish pretreatment tank and two warm water rinse tanks on hard chrome plating machine - T1, T3, and T4 (7153 Electropolish)

Raw Material/Fuel: Spindles

Rated Capacity: 1,620 parts/ hour

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit: <20% Opacity

Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V, Article IV, Section 5-9.

Pollutant: PM₁₀

Emission Limits: 0.225 lbs./hr,
0.9868 TPY
0.0055 gr./SCFM

Authority for Requirement: Polk County AQD Construction Permit #0808

Pollutant: PM

Emission Limit: 0.01 gr./dscf

Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V, Article VI, Section 5-15

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 #0808

Monitoring Requirements

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

Emission Point 02-52 shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer’s signature, and whether any emissions were observed. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity $\geq 20\%$ is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

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

Associated Equipment

Associated Emission Unit ID Numbers: 02-OX1, 02-OX2, 03-OX1

Emissions Control Equipment ID Numbers: CE 02-OX and CE 03-OX

Emissions Control Equipment Description: (2) Torit Model TD 486 Dust Collectors

EU = Emission Unit

EU	EU Description	Raw Material	Rated Capacity	Control ID	EP
02-OX1	Lissmac Model SBM 1500-A Oxide Remover	Steel Sheets	280 inches/ minute	O3-OX	03-OXf
02-OX2	Lissmac Model SBM 1500-A Oxide Remover	Steel Sheets	280 inches/ minute	O2-OX	02-OXf
03-OX1	Lissmac Model SBM 1500-A Oxide Remover	Steel Sheets	280 inches/ minute	O3-OX	03-OXf

Applicable Requirements

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

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

(EU 02-OX2 / CE 02-OX / EP 02-OXf)

Pollutant: Opacity

Emission Limit: No Visible Emissions

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

Pollutant: PM₁₀

Emission Limits: 0.10 lbs./hr,

0.44 TPY,

0.05 gr./ dscf

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

(EU 02-OX1, 03-OX1 / CE 03-OX / EP 03-OXf)

Pollutant: Opacity

Emission Limit: No Visible Emissions

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

Pollutant: PM₁₀

Emission Limits: 0.10 lbs./hr,
0.44 TPY,
0.05 gr./ dscf

Authority for Requirement: 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 maintenance and 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: EPs O2-OXf and 03-OXf shall be 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 22.108(3)

Emission Point ID Number: 03-02

Emission Unit vented through this Emission Point: 03-02
Emission Unit Description: Cleaver Brooks 300 BHP Boiler
Raw Material/Fuel: Natural Gas or propane
Rated Capacity: 10.04 MM Btu/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% Opacity

Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V,
Article IV, Section 5-9
Polk County AQD Construction Permit #2517

Pollutant: PM/ PM₁₀

Emission Limits: 0.09 lb./hr,
0.38 TPY,
0.10 gr/dscf

Authority for Requirement: Polk County AQD Construction Permit #2517

Pollutant: PM

Emission Limit: 0.60 lb./MMBtu

Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V,
Article V, Section 5-12 (2)

Pollutant: SO_x

Emission Limits: 0.01 lb./hr,
0.03 TPY,
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 # 2517

Pollutant: NO_x

Emission Limits: 1.43 lbs./hr. and
6.25 TPY

Authority for Requirement: Polk County AQD Construction Permit # 2517

Pollutant: VOC

Emission Limits: 0.05 lbs./hr. and
0.24 TPY

Authority for Requirement: Polk County AQD Construction Permit # 2517

Pollutant: CO

Emission Limits: 0.83 lbs./hr. and
3.62 TPY

Authority for Requirement: Polk County Construction Permit #2517

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 # 2517

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height: 44 feet (from the ground)

Stack Opening: 25 inches (diameter)

Exhaust Flow Rate: 7,205 scfm

Exhaust Temperature: 400 °F

Discharge Style: vertical, unobstructed

Authority for Requirement: Polk County AQD Construction Permit #2517

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department 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 22.108(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 or propane
Rated Capacity: 4 MM Btu/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% Opacity

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: PM/ PM₁₀

Emission Limits: 0.03 lb./hr,
0.13 TPY,
0.10 gr/dscf

Authority for Requirement: Polk County AQD Construction Permit #1825 Modified

Pollutant: SO_x

Emission Limits: 0.01 lb./hr,
0.01 TPY,
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: NO_x

Emission Limits: 0.57 lbs./hr. and
2.50 TPY

Authority for Requirement: Polk County AQD Construction Permit # 1825 Modified

Pollutant: VOC

Emission Limits: 0.02 lbs./hr. and
0.09 TPY

Authority for Requirement: Polk County AQD Construction Permit # 1825 Modified

Pollutant: CO

Emission Limits: 0.33 lbs./hr. and
1.45 TPY

Authority for Requirement: Polk County AQD Construction Permit # 1825 Modified

NESHAP Requirements:

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

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

Polk County Board of Health Rules and Regulations:
Chapter V, Article VIII, Section 5-20 (m)

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 Construction Permit #1825 Modified

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height: 24 feet (from the ground)

Stack Opening: 14 inches (diameter)

Exhaust Flow Rate: 4,991 scfm

Exhaust Temperature: 350 °F

Discharge Style: vertical, unobstructed

Authority for Requirement: Polk County AQD Construction Permit #1825 Modified

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department 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 22.108(3)

Emission Point ID Numbers: 03-30, 03-31

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
03-30	03-30	Immersol Jet Burner: Washer- Heat Stage 1B	Natural Gas or Propane	3.6 MMBtu/ hr
03-31	03-31	Immersol Jet Burner: Washer- Heat Stage 1A	Natural Gas or Propane	3.6 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.

(EU 03-30 / EP 03-30)

Pollutant: Opacity

Emission Limit: <20% Opacity

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: PM/ PM₁₀

Emission Limits: 0.03 lb./hr,
0.13 TPY,
0.10 gr/dscf

Authority for Requirement: Polk County AQD Construction Permit #1608 Modified #2

Pollutant: SO_x

Emission Limits: 0.01 lb./hr,
0.01 TPY,
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: NO_x

Emission Limits: 0.51 lbs./hr. and
2.23 TPY

Authority for Requirement: Polk County AQD Construction Permit #1608 Modified #2

Pollutant: VOC
Emission Limits: 0.02 lbs./hr. and
0.09 TPY
Authority for Requirement: Polk County AQD Construction Permit #1608 Modified #2

Pollutant: CO
Emission Limits: 0.30 lbs./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% Opacity
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: PM/ PM₁₀
Emission Limits: 0.03 lb./hr,
0.13 TPY,
0.10 gr/dscf
Authority for Requirement: Polk County AQD Construction Permit #1608 Modified #2

Pollutant: SO_x
Emission Limits: 0.01 lb./hr,
0.01 TPY,
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: NO_x
Emission Limits: 0.51 lbs./hr. and
2.23 TPY
Authority for Requirement: Polk County AQD Construction Permit #1608 Modified #2

Pollutant: VOC
Emission Limits: 0.02 lbs./hr. and
0.09 TPY
Authority for Requirement: Polk County AQD Construction Permit #1608 Modified #2

Pollutant: CO

Emission Limits: 0.30 lbs./hr. and
1.31 TPY

Authority for Requirement: Polk County AQD Construction Permit #1608 Modified #2

NESHAP Requirements:

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

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

Polk County Board of Health Rules and Regulations:
Chapter V, Article VIII, Section 5-20 (mmm)

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 Construction Permit #1608 Modified #2

Emission Point Characteristics

*The emission points shall conform to the specifications listed below.
(EP 03-30 and EP 03-31)*

Stack Height: 26.0 feet (from the ground)

Stack Opening: 18 inches (diameter)

Exhaust Flow Rate: 3,368 scfm

Exhaust Temperature: 400 °F

Discharge Style: vertical, unobstructed

Authority for Requirement: Polk County AQD Construction Permit #1608 Modified #2

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department 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 22.108(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 ft³/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% opacity

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: PM/ PM₁₀

Emission Limit: 0.09 lbs./hr.,
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: 43 feet (from the ground)

Stack Opening: 5.5" x 5.5" (square)

Exhaust Flow Rate: 1,000 scfm

Exhaust Temperature: ambient

Discharge Style: horizontal

Authority for Requirement: Polk County AQD Construction Permit #2088

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

Monitoring Requirements

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

Emission point (11-08) shall be visually checked for observable emissions every time the Centro Plastic Storage Silo (EU 11-08) is filled with polyethylene powder, by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer’s signature, and whether any emissions were observed. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity $\geq 20\%$ is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 11-09

Emission Unit vented through this Emission Point: 11-09
Emission Unit Description: Rotational Engineering Model CH130 Rotomold Oven
Raw Material/Fuel: Natural Gas or propane
Rated Capacity: 4.5 MMBtu/hr

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit: <20% Opacity

Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V,
Article IV, Section 5-9
Polk County AQD Construction Permit #1830 Modified

Pollutant: PM/ PM₁₀

Emission Limits: 0.04 lb./hr,
0.18 TPY,
0.10 gr/dscf

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

Pollutant: SO_x

Emission Limits: 0.01 lb./hr,
0.01 TPY,
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 # 1830 Modified

Pollutant: NO_x

Emission Limits: 0.64 lbs./hr. and
2.80 TPY

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

Pollutant: VOC

Emission Limits: 0.03 lbs./hr. and
0.13 TPY

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

Pollutant: CO

Emission Limits: 0.37 lbs./hr. and
1.62 TPY

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

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 Construction Permit #1830 Modified

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height: 36 feet (from the ground)

Stack Opening: 12 inches (diameter)

Exhaust Flow Rate: 1,500 scfm

Exhaust Temperature: 700 °F

Discharge Style: Vertical with obstructing rain cap

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

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department 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 22.108(3)

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

Emission Unit vented through these Emission Points: 11-10
Emission Unit Description: Rotational Engineering Model CH130 Rotomold Machine
Raw Material/Fuel: Plastic Resin
Rated Capacity: 700 lb./ hr

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit: No Visible Emissions
Authority for Requirement: Polk County AQD Construction Permit #1829

Pollutant: PM/ PM₁₀
Emission Limits: 0.04 lbs./hr,
0.20 TPY,
0.10 gr./dscf
Authority for Requirement: Polk County AQD Construction Permit #1829

Pollutant: VOC
Emission Limits: 0.08 lbs./hr. and
0.34 TPY
Authority for Requirement: Polk County AQD Construction Permit # 1829

Pollutant: Cadmium
Emission Limits: 0.04 lbs./hr. and
0.20 TPY
Authority for Requirement: Polk County AQD Construction Permit # 1829

Pollutant: Antimony
Emission Limits: 0.04 lbs./hr. and
0.20 TPY
Authority for Requirement: Polk County AQD Construction Permit # 1829

Pollutant: Chromium
Emission Limits: 0.04 lbs./hr. and
0.20 TPY
Authority for Requirement: Polk County AQD Construction Permit # 1829

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 #1829

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

(EP 11-09)

Stack Height: 36 feet (from the ground)

Stack Opening: 12 inches (diameter)

Exhaust Flow Rate: 1,500 scfm

Exhaust Temperature: 700 °F

Discharge Style: Vertical with obstructing rain cap

Authority for Requirement: Polk County AQD Construction Permit #1829

(EP 11-10)

Stack Height: 22 feet (from the ground)

Stack Opening: 30 inches (diameter)

Exhaust Flow Rate: 1,146 scfm

Exhaust Temperature: 600 °F

Discharge Style: Vertical

Authority for Requirement: Polk County AQD Construction Permit #1829

(EP 11-11)

Stack Height: 22 feet (from the ground)

Stack Opening: 30 inches (diameter)

Exhaust Flow Rate: 1,146 scfm

Exhaust Temperature: 600 °F

Discharge Style: Vertical

Authority for Requirement: Polk County AQD Construction Permit #1829

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

Monitoring Requirements

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

Emission Points 11-09, 11-10, & 11-11 shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer’s signature, and whether any emissions were observed. If visible emissions are observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 11-12

Emission Unit vented through this Emission Point: 11-12
Emission Unit Description: Flame Cut Table
Raw Material/Fuel: Propylene
Rated Capacity: 0.004658 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% Opacity

Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V,
Article IV, Section 5-9
Polk County AQD Construction Permit #0833 Modified

Pollutant: PM/ PM₁₀

Emission Limits: 0.01 TPY,
0.10 gr/dscf

Authority for Requirement: Polk County AQD Construction Permit #0833 Modified

Pollutant: SO_x

Emission Limits: 0.01 TPY,
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 #0833 Modified

Pollutant: NO_x

Emission Limit: 0.01TPY

Authority for Requirement: Polk County AQD Construction Permit #0833 Modified

Pollutant: VOC

Emission Limit: 0.01TPY

Authority for Requirement: Polk County AQD Construction Permit #0833 Modified

Pollutant: CO

Emission Limit: 0.01TPY

Authority for Requirement: Polk County AQD Construction Permit #0833 Modified

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 40,000 cubic feet of propylene gas combusted per 12 month period. The facility shall record monthly the amount of propylene gas combusted. Said record shall include a rolling 12 month total. The facility may record the amount of propylene gas purchased in place of the amount of gas combusted.

Reporting & Record keeping:

- Records shall be kept on site for a period of five years and shall be made available to representatives of this agency upon request.

Authority for Requirement: Polk County AQD Construction Permit #0833 Modified

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height: 12 feet (from the ground)

Stack Opening: 18" x 18" inches

Exhaust Flow Rate: 4,382 acfm

Exhaust Temperature: 100 °F

Discharge Style: Horizontal

Authority for Requirement: Polk County AQD Construction Permit #0833 Modified

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

Monitoring Requirements

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

Emission Point 11-12 shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer’s signature, and whether any emissions were observed. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity $\geq 20\%$ is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

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

Emission Unit vented through these Emission Points: (EU 11-13 / EP 11-13, EP 11-14)

Emission Unit Description: Rotomold Pre-cool and Cooling Chambers

Raw Material/Fuel: VOC / Air

Rated Capacity: 35,365 scfm

Emission Unit vented through this Emission Point: (EU 11-15 / EP 11-15)

Emission Unit Description: 500 lb/hr Ovenpak LE Rotomold Machine Oven with
Maxon Low Emission Burners

Raw Material/Fuel: Natural Gas or propane

Rated Capacity: 4.5 MMBtu/hr

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit: <20% Opacity

Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V,
Article IV, Section 5-9

Polk County AQD Construction Permit #2334

Pollutant: PM/ PM₁₀

Emission Limits: 0.07 lb./hr,

0.31 TPY,

0.10 gr/dscf

Authority for Requirement: Polk County AQD Construction Permit #2334

Pollutant: PM

Emission Limit: 0.60 lb./MMBtu

Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V,
Article V, Section 5-12 (1)

Pollutant: SO_x

Emission Limits: 0.01 lb./hr,
0.01 TPY,
0.5 lb./MMBtu
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 # 2334

Pollutant: NO_x

Emission Limits: 0.64 lbs./hr. and
2.80 TPY

Authority for Requirement: Polk County AQD Construction Permit # 2334

Pollutant: VOC

Emission Limits: 0.04 lbs./hr. and
0.17 TPY

Authority for Requirement: Polk County AQD Construction Permit # 2334

Pollutant: CO

Emission Limits: 0.37 lbs./hr. and
1.62 TPY

Authority for Requirement: Polk County AQD Construction Permit # 2334

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 Construction Permit #2334

Emission Point Characteristics

The emission points shall conform to the specifications listed below.

EP 11-13

Stack Height: 35.0 feet (from the ground)

Stack Opening: 48 inches (diameter)

Exhaust Flow Rate: 35,365 scfm

Exhaust Temperature: 110 °F

Discharge Style: Vertical, unobstructed

Authority for Requirement: Polk County AQD Construction Permit #2334

EP 11-14

Stack Height: 35.0 feet (from the ground)

Stack Opening: 48 inches (diameter)

Exhaust Flow Rate: 35,365 scfm

Exhaust Temperature: 110 °F

Discharge Style: Vertical, unobstructed

Authority for Requirement: Polk County AQD Construction Permit #2334

EP 11-15

Stack Height: 35.0 feet (from the ground)

Stack Opening: 14 inches (diameter)

Exhaust Flow Rate: 1,500 scfm

Exhaust Temperature: 650 °F

Discharge Style: Vertical, unobstructed

Authority for Requirement: Polk County AQD Construction Permit #2334

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department 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 22.108(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 point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit: No Visible Emissions
Authority for Requirement: Polk County AQD Construction Permit #1826

Pollutant: PM/ PM₁₀
Emission Limit: 0.44 lbs./hr. and
1.91 TPY
Authority for Requirement: Polk County AQD Construction Permit #1826

Pollutant: SO_x
Emission Limit: 0.41 lbs./hr. and
1.79 TPY
Authority for Requirement: Polk County AQD Construction Permit #1826

Pollutant: NO_x
Emission Limit: 6.22 lbs./hr. and
27.24 TPY
Authority for Requirement: Polk County AQD Construction Permit #1826

Pollutant: VOC
Emission Limit: 0.49 lbs./hr. and
2.16 TPY
Authority for Requirement: Polk County AQD Construction Permit #1826

Pollutant: CO
Emission Limit: 1.34 lbs./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 (2)(b)

Reporting & Record keeping:

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 22.108(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 maintenance and inspection.

Authority for Requirement: Polk County Construction Permit #1826

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height: 20 feet (from the ground)

Stack Opening: 5 inches (diameter)

Exhaust Flow Rate: 1,227 acfm

Exhaust Temperature: 800 - 950 °F

Discharge Style: vertical, unobstructed

Authority for Requirement: Polk County AQD Construction Permit #1826

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

Monitoring Requirements

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

Emission Point 16-01 shall be visually checked for observable emissions once every time the fire pump (EU 16-01) is operated, by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer's signature, and whether any emissions were observed. If visible emissions are observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 18-18

Emission Unit vented through this Emission Point: 18-01-OVEN
Emission Unit Description: Schweitzer Building 18 Spray Paint Booth Oven
Raw Material/Fuel: Natural Gas or Propane
Rated Capacity: 5.6 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% Opacity

Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V,
Article IV, Section 5-9
Polk County AQD Construction Permit #1831 Modified

Pollutant: PM/ PM₁₀

Emission Limits: 0.05 lb./hr,
0.22 TPY,
0.10 gr/dscf

Authority for Requirement: Polk County AQD Construction Permit #1831 Modified

Pollutant: SO_x

Emission Limits: 0.01 lb./hr,
0.01 TPY,
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 # 1831 Modified

Pollutant: NO_x

Emission Limits: 0.80 lbs./hr. and
3.50 TPY

Authority for Requirement: Polk County AQD Construction Permit # 1831 Modified

Pollutant: VOC

Emission Limits: 0.03 lbs./hr. and
0.13 TPY

Authority for Requirement: Polk County AQD Construction Permit # 1831 Modified

Pollutant: CO

Emission Limits: 0.46 lbs./hr. and
2.02 TPY

Authority for Requirement: Polk County AQD Construction Permit # 1831 Modified

NESHAP Requirements:

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

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

Polk County Board of Health Rules and Regulations:
Chapter V, Article VIII, Section 5-20 (mmm)

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 Construction Permit #1831 Modified

Emission Point Characteristics

The emission points shall conform to the specifications listed below.

Stack Height: 42 feet (from the ground)

Stack Opening: 17 x 34 inches (rectangular)

Exhaust Flow Rate: 7,800 scfm

Exhaust Temperature: 200 °F

Discharge Style: Vertical, unobstructed

Authority for Requirement: Polk County AQD Construction Permit #1831 Modified

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department 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 22.108(3)

Emission Point ID Number: 18-17

Emission Unit vented through this Emission Point: 18-17
Emission Unit Description Building 18 Paint Booth Dry Off Oven
Raw Material/Fuel: Natural Gas or Propane
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% Opacity

Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V,
Article IV, Section 5-9
Polk County AQD Construction Permit #1531 Modified #2

Pollutant: PM/ PM₁₀

Emission Limits: 0.03 lb./hr,
0.13 TPY,
0.10 gr/dscf

Authority for Requirement: Polk County AQD Construction Permit #1531 Modified #2

Pollutant: SO_x

Emission Limits: 0.01 lb./hr,
0.01 TPY,
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 # 1531 Modified #2

Pollutant: NO_x

Emission Limits: 0.57 lbs./hr. and
2.50 TPY

Authority for Requirement: Polk County AQD Construction Permit # 1531 Modified #2

Pollutant: VOC

Emission Limits: 0.02 lbs./hr. and
0.09 TPY

Authority for Requirement: Polk County AQD Construction Permit # 1531 Modified #2

Pollutant: CO

Emission Limits: 0.33 lbs./hr. and
1.45 TPY

Authority for Requirement: Polk County AQD Construction Permit # 1531 Modified #2

NESHAP Requirements:

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

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

Polk County Board of Health Rules and Regulations:
Chapter V, Article VIII, Section 5-20 (mmm)

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 Construction Permit #1531 Modified #2

Emission Point Characteristics

The emission points shall conform to the specifications listed below.

Stack Height: 35 feet (from the ground)

Stack Opening: 40 inches (diameter)

Exhaust Flow Rate: 15,172 scfm

Exhaust Temperature: 200 °F

Discharge Style: Vertical, unobstructed

Authority for Requirement: Polk County AQD Construction Permit #1531 Modified #2

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department 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 22.108(3)

Emission Point ID Number: 26-01

Associated Equipment

Emissions Control Equipment ID Number: 26-01

Emissions Control Equipment Description: 7377 Torit Model DFT3-12 Dust Collector

Emission Unit vented through this Emission Point: 26-01

Emission Unit Description: 7377 Wheelabrator Shot Blast

Raw Material/Fuel: steel shot

Rated Capacity: 0.046 tons/ 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: No Visible Emissions

Authority for Requirement: Polk County AQD Construction Permit #1816

Pollutant: PM/ PM₁₀

Emission Limits: 0.002 lb./hr,

0.01 TPY,

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 #1816

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 Construction Permit #1816

Emission Point Characteristics

The emission points shall conform to the specifications listed below.

- Stack Height: 15 feet (from the ground)
- Stack Opening: 24 x 36 inches (rectangular)
- Exhaust Flow Rate: 4,800 scfm
- Exhaust Temperature: Ambient
- Discharge Style: Horizontal
- Authority for Requirement: Polk County AQD Construction Permit #1816

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

Monitoring Requirements

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

Emission Point 26-01 shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer’s signature, and whether any emissions were observed. If visible emissions are observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 26-02

Associated Equipment

Emissions Control Equipment ID Number: 26-02

Emissions Control Equipment Description: Torit Model ECB-31332 Baghouse

Emission Unit vented through this Emission Point: 26-02

Emission Unit Description: Building 26 Tube Blow Out Booth

Raw Material/Fuel: metal tubes

Rated Capacity: 100 tubes/ 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: PM/ PM₁₀

Emission Limits: 0.09 lb./hr,
0.38 TPY,
0.01 gr/dscf

Authority for Requirement: Polk County AQD Construction Permit #2123

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 Construction Permit #2123

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Discharge Style: CE 26-02 / EP 26-02 shall be internally vented.

Authority for Requirement: Polk County AQD Construction Permit #2123

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 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 point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit: <20% Opacity

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: PM/ PM₁₀

Emission Limit: 0.26 lbs./hr.,
0.07 TPY, and
1.2 gram/ kW-hr

Authority for Requirement: 40 CFR 60 Subpart III
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: SO_x

Emission Limit: 0.27 lbs./hr.,
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 + NO_x

Emission Limit: 1.44 lbs./hr. and
0.36 TPY
6.6 gram/ kW-hr

Authority for Requirement: 40 CFR 60 Subpart III
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: CO

Emission Limit: 0.89 lbs./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.

Work practice standards:

- All applicable conditions of 40 CFR 60 Subpart III –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 & Record keeping:

- 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, ie. 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 upon request.

Authority for Requirement: 40 CFR 60 Subpart III

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: 8 feet (from the ground)

Stack Opening: 4 inches (diameter)

Exhaust Flow Rate: 679 acfm

Exhaust Temperature: 1,074 °F

Discharge Style: vertical, unobstructed

Authority for Requirement: Polk County AQD Construction Permit #2526

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

Monitoring Requirements

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

Emission Point 40-01 shall be visually checked for observable emissions once every time the emergency generator (EU 40-01) is operated, by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer’s signature, and whether any emissions were observed. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity $\geq 20\%$ is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point Number	Emission Unit 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 or Propane

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit: <20% Opacity

Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V, Article IV, Section 5-9

Pollutant: PM

Emission Limit: 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: SO₂

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

1. Change oil and filter every 500 hours of operation or annually, whichever comes first. (See 63.6625(j) for the oil analysis option to extend time frame of requirements.)
2. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first, and replace as necessary.
3. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
4. Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
5. Install a non-resettable hour meter if one is not already installed.
6. Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

Operating Limits 40 CFR 63.6640(f)

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

Recordkeeping Requirements 40 CFR 63.6655

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

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

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

Authority for Requirement: 40 CFR 63 Subpart ZZZZ
567 IAC 23.1(4)"cz"
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 22.108(3)

Emission Point ID Number: CT-02X

Emission Unit vented through this Emission Point: CT-02X
Emission Unit Description: Marley Model 047306/A92522A Cooling Tower
Raw Material/Fuel: Water
Rated Capacity: 86 gallon/minute

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit: <20% Opacity

Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V,
Article IV, Section 5-9
Polk County AQD Construction Permit #2087

Pollutant: PM/ PM₁₀

Emission Limits: 0.044 lb./hr,
0.19 TPY,
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 #2087

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 or operator shall not use any chromium based water treatment chemicals in the cooling tower.
- The owner or operator shall not use any water treatment chemicals in the cooling tower containing VOC or HAP compounds.

Reporting & Record keeping:

- Technical Data Sheets of all additives to the cooling tower shall be maintained on-site.
- All records required above shall be maintained on-site for a period of five (5) years and shall be made available to representatives of Polk County AQD upon request.

Authority for Requirement: Polk County Construction Permit #2087

Monitoring Requirements

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

Emission Point CT-02X shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer’s signature, and whether any emissions were observed. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity $\geq 20\%$ is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 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 point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit: <20% Opacity

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: PM

Emission Limits: 0.01 lb./hr,
0.04 TPY,
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 #2527

Pollutant: PM₁₀

Emission Limits: 0.01 lb./hr,
0.02 TPY,
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 #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 Construction Permit #2527

Monitoring Requirements

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

Emission Point CT-02 shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer’s signature, and whether any emissions were observed. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity $\geq 20\%$ is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: JAN-FUG; PW-FUG; and HAP-FUG

Emission Units vented through these Emission Points: F01-01; F01-02; and F01-03
Emission Unit Description: VOC fugitive emissions
Raw Material/Fuel: janitorial chemicals, paints, solvents, and cleaners
Rated Capacity: 5 lbs. /hour

Applicable Requirements

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

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

None applicable at this time.

Operational Limits & Requirements

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

None applicable at this time.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: 02-G1, 02-G2, 02-G3, 02-G4, 02-G5, 02-G6, and 02-G7

Associated Equipment

Associated Emission Unit ID Numbers: 02-G1, 02-G2A, 02-G2B, 02-G2C, 02-G2D, 02-G3A, 02-G3B, 02-G3C, 02-G4, 02-G5, 02-G6, and 02-G7

Emissions Control Equipment ID Numbers: 02-G1, 02-G2, 02-G3, 02-G4, 02-G5, 02-G6, and 02-G7

Emissions Control Equipment Description: see below

SOURCE: Building 2 Grinders and Machining Centers Composed of:

EU Name	EP ID	EU ID	CE ID	CE Description
CNC Doffer Grinder	02-G1	02-G1	02-G1	02-G1 Torit Model 7080 Dry Fabric Filter Dust Collector
Cincinatti Centerless Grinder Cincinatti Centerless Grinder Cincinatti Centerless Grinder Cincinatti Centerless Grinder	02-G2	02-G2A 02-G2B 02-G2C 02-G2D	02-G2	02-G2 Torit Model W50-25 Dry Fabric Filter Dust Collector
Cincinatti Centerless Grinder Cincinatti Centerless Grinder Cincinatti Centerless Grinder	02-G3	02-G3A 02-G3B 02-G3C	02-G3	02-G3 Torit Model W50-25 Dry Fabric Filter Dust Collector
Mori Seiki SH-400 Machining Center	02-G4	02-G4	02-G4	02-G4 Mist Blasters Model SH-400 Particulate Filter
Mori Seiki SH-400 Machining Center	02-G5	02-G5	02-G5	02-G5 Mist Blasters Model SH-400 Particulate Filter
Okuma CNC LB15-MW Lathe	02-G6	02-G6	02-G6	02-G6 Torit Model LB15-MWT Particulate Filter
Okuma CNC LB15-MW Lathe	02-G7	02-G7	02-G7	02-G7 Torit Model LB15-MWT Particulate Filter

Applicable Requirements

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

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

Emissions shall not exceed the following for CE/EP 02-G1:

<u>Pollutant</u>	<u>lbs/hr.</u>	<u>tons/year</u>	<u>Allowable Concentration</u>
PM/PM ₁₀	0.10	0.44	0.01 gr/dscf

Emissions shall not exceed the following for CE/EP 02-G2:

<u>Pollutant</u>	<u>lbs/hr.</u>	<u>tons/year</u>	<u>Allowable Concentration</u>
PM/PM ₁₀	0.13	0.57	0.01 gr/dscf

Emissions shall not exceed the following for CE/EP 02-G3:

<u>Pollutant</u>	<u>lbs/hr.</u>	<u>tons/year</u>	<u>Allowable Concentration</u>
PM/PM ₁₀	0.13	0.57	0.01 gr/dscf

Emissions shall not exceed the following for CE/EP 02-G4:

<u>Pollutant</u>	<u>lbs/hr.</u>	<u>tons/year</u>	<u>Allowable Concentration</u>
PM/PM ₁₀	0.08	0.35	0.01 gr/dscf

Emissions shall not exceed the following for CE/EP 02-5:

<u>Pollutant</u>	<u>lbs/hr.</u>	<u>tons/year</u>	<u>Allowable Concentration</u>
PM/PM ₁₀	0.08	0.35	0.01 gr/dscf

Emissions shall not exceed the following for CE/EP 02-6:

<u>Pollutant</u>	<u>lbs/hr.</u>	<u>tons/year</u>	<u>Allowable Concentration</u>
PM/PM ₁₀	0.06	0.26	0.01 gr/dscf

Emissions shall not exceed the following for CE/EP 02-7:

<u>Pollutant</u>	<u>lbs/hr.</u>	<u>tons/year</u>	<u>Allowable Concentration</u>
PM/PM ₁₀	0.06	0.26	0.01 gr/dscf

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

Operational Limits & Requirements

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

Work practice standards:

- The owner or operator is afforded the flexibility to “switchout” emission units listed in this permit with identical make and model replacement units. These “switchout” replacements are exempt from the notification, permitting and testing requirements of Section 3. Transferability of *Polk County AQD Construction Permit #2122 Modified*.
- This authorization is limited to activities that can be accommodated by the original installation of each grinder and that are performed in conjunction with an ongoing program of maintenance, repair, and replacement, so as to not constitute a modification of the emission units with respect to NSR or PSD. This authorization does not extend to installation of a replacement emission unit that would change the discharge flow rates, stack parameters, emission rates or would result in the addition of emission units or to activities that are intended to or would have the result of increasing the pound per hour emission rate.
- The “switchout” provisions were included to allow for off permit replacement of “grinders” or overhaul of existing “grinders” that may have existing federally enforceable limits. For replacement emission units which trigger new applicable requirements (i.e., NSPS, NESHAP, etc.), the construction permit process of Polk County Board of Health Rules and Regulations Chapter V, Article X shall be utilized to maintain the permitted emission limits of the replaced or overhauled emission units and incorporate the new applicable requirements.
- Routine maintenance and inspection.

Reporting & Record keeping:

Records shall be maintained on site for a minimum period of five years and be made available to representatives of Polk County AQD upon request.

- The owner or operator shall maintain records on site for the emission unit “switchout” replacements. Records shall include the date of the replacement.

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

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Discharge Style: CE/ EP 02-G1, 02-G2, 02-G3, 02-G4, 02-G5, 02-G6, and 02-G7 shall be internally vented.

Authority for Requirement: Polk County AQD Construction Permit #2122 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 22.108(3)

Emission Point ID Number: Engine Exhausts (62 pick-up points)

Emission Unit vented through this Emission Point: 18-1801

Emission Unit Description: Engine Exhaust Stations – Multiple Exhaust Pick-ups (62),
Engine Maximum 1,000 hp

Raw Material/Fuel: Diesel

Rated Capacity: 44.0 gallon/hr per exhaust station

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit: <20%

Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V,
Article IV, Section 5-9
Polk County AQD Construction Permit #1606 Modified #2

Pollutant: PM/ PM₁₀

Emission Limits: 1.92 lbs./hr.,
6.05 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 #1606 Modified #2

Pollutant: SO_x

Emission Limits: 0.30 lbs./hr. and
0.94 TPY

Authority for Requirement: Polk County AQD Construction Permit #1606 Modified #2

Pollutant: NO_x

Emission Limits: 12.48 lbs./hr. and
39.28 TPY

Authority for Requirement: Polk County AQD Construction Permit #1606 Modified #2

Pollutant: VOC

Emission Limits: 0.98 lbs./hr. and
3.07 TPY

Authority for Requirement: Polk County AQD Construction Permit #1606 Modified #2

Pollutant: CO

Emission Limits: 2.18 lbs./hr. and
6.86 TPY

Authority for Requirement: Polk County AQD Construction Permit #1606 Modified #2

Operational Limits & Requirements

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

Process throughput:

- Operation of the facility engine exhaust stations shall be limited to two hundred seventy-seven thousand (277,000) gallons diesel fuel per twelve (12) month period rolled and totaled monthly. Maximum engine capacity shall not exceed one thousand (1,000) horse-power (hp). The maximum fuel usage shall not exceed 44.0 gallons per hour for each exhaust station. The above operational limits shall apply to all engine exhaust stations.

Work practice standards:

- Only diesel fuels meeting the ASTM requirements of number 1 or number 2 low sulfur diesel fuels or biodiesel blends (sulfur content not to exceed 0.5% by weight) shall be used in the diesel combustion engines.
- The facility may install, relocate, modify and remove engine testing stations throughout the facility without written notification; however, the facility shall maintain a log of active engine exhaust stations, stacks, and location. This log shall be made available to representatives of Polk County Air Quality Division upon request.
- Routine maintenance and inspection.

Reporting & Record keeping:

- An MSDS or supplier certification shall be maintained and logged for each shipment of fuel received.
- Said logs shall be made available to representatives of this department (*Polk County AQD*) upon request and maintained on-site for five (5) years.

Authority for Requirement: Polk County Construction Permit #1606 Modified #2

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: LCf

Associated Equipment

EU #	Equipment Description	CE #	CE Description	EP #
01-LC1	Trumpf 5000 Watt Laser Cutter	n/a	Built In	LCf
01-LC2	Trumpf 5000 Watt Laser Cutter	n/a	Built In	LCf
01-LC3	Trumpf 5000 Watt Laser Cutter	n/a	Built In	LCf
01-LC4	Trumpf 5000 Watt Laser Cutter	n/a	Built In	LCf
01-LC5	Trumpf 5000 Watt Laser Cutter	n/a	Built In	LCf
01-LC6	Trumpf 5000 Watt Laser Cutter	n/a	Built In	LCf
02-LC1	Trumpf 5000 Watt Laser Cutter	n/a	Built In	LCf
02-LC2	Trumpf 5000 Watt Laser Cutter	n/a	Built In	LCf
02-LC3	Trumpf 5000 Watt Laser Cutter	n/a	Built In	LCf
02-LC4	Trumpf 5000 Watt Laser Cutter	n/a	Built In	LCf
02-LC5	Trumpf 5000 Watt Laser Cutter	n/a	Built In	LCf
02-LC6	Trumpf 5000 Watt Laser Cutter	n/a	Built In	LCf
02-LC7	Trumpf 5000 Watt Laser Cutter	n/a	Built In	LCf
02-LC10	Cincinnati 3299 Watt Laser Cutter	02-LC10	Torit Fabric Filter	LCf
02-LC11	Trumpf 5000 Watt Laser Cutter	n/a	Built In	LCf
03-LC1	Trumpf 5000 Watt Laser Cutter	n/a	Built In	LCf
03-LC2	Trumpf 5000 Watt Laser Cutter	n/a	Built In	LCf
03-LC3	Trumpf 5000 Watt Laser Cutter	n/a	Built In	LCf
03-LC4	Trumpf 5000 Watt Laser Cutter	n/a	Built In	LCf
26-LC1	Balliu 3 Axis Tube Cutting Laser	26-LC1	Torit Fabric Filter	LCf
26-LC5	BLM Tube Laser	26-LC5	Torit Fabric Filter	LCf

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% Opacity

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 #5

(For each individual emission unit emitted by EP LCf)

Pollutant: PM/ PM₁₀ / PM_{2.5}

Emission Limits: 0.10 lbs./hr.,
0.44 TPY, and
0.10 gr./dscf

(For all emission units emitted by EP LCf combined)

Pollutant: PM/ PM₁₀

Emission Limit: 9.24 TPY

Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V,
Article VI, Section 5-14(b)
Polk County AQD Construction Permit #2069 Modified #5

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 #2069 Modified #5

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Discharge Style: Each Emission Unit *emitted through (EP LCf)* shall be internally vented.

Authority for Requirement: Polk County AQD Construction Permit #2069 Modified #5

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Group Source: Wet Paint Spraying Operations

Associated Equipment

EU #	EP #	Description	Control Equipment	Rated Capacity
01-TU	01-TU1, 01-TU2	Vehicle Touch-Up Spray Booth	CE 01-TU1 and CE 01-TU2 Dry Fabric Filters	7.01 gallons/ hr
02-30	02-18 thru 02-26, 02-31, 02-61	D-19 E-Coat Dip Tank	N/A	0.05 ton/ hr
02-31	02-18 thru 02-26, 02-31, 02-61	(5) – 3 MMBtu/hr Drying Burners combusting natural gas with propane backup	N/A	15 MMBtu/ hr
03-03	03-03	D-20A Touch-Up Paint Booth	CE 03-03 Dry Filters	8 gallons/ hr
03-04	03-06, 03-07, 03-08, 03-15, 03-20, 04-01	D-20A Black Paint Dip Tank	N/A	0.03 ton/ hr
03-21	03-21, 03-22, 03-24, 03-25, 03-36, 03-37	D-20A North and South Paint Booths	CE 03-21 Dry Filters	72 gallons/ hr
03-22	03-21, 03-22, 03-24, 03-25	(1) – 5 MMBtu/hr Burner combusting natural gas with propane backup	CE 03-21 Dry Filters	5 MMBtu/ hr
03-23	03-21, 03-22, 03-24, 03-25	(1) – 5 MMBtu/hr Burner combusting natural gas with propane backup	CE 03-21 Dry Filters	5 MMBtu/ hr
03-24	03-21, 03-22, 03-24, 03-25	(1) – 1.65 MMBtu/hr Burner combusting natural gas with propane backup	CE 03-21 Dry Filters	1.65 MMBtu/ hr
03-25	03-21, 03-22, 03-24, 03-25	(1) – 2.6 MMBtu/hr Burner combusting natural gas with propane backup	CE 03-21 Dry Filters	2.6 MMBtu/ hr
03-26	03-21, 03-22, 03-24, 03-25	(1) – 3.96 MMBtu/hr Burner combusting natural gas with propane backup	CE 03-21 Dry Filters	3.96 MMBtu/ hr
12-05	12-05	D-51 Maintenance Spray Booth	CE 12-05 Dry Filters	0.0025 ton/ hr

Applicable Requirements

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

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

Emissions shall not exceed the following for Emission Units 02-30, 03-03, 03-04, 03-21, 12-05, and 01-TU:

<u>Pollutant</u>	<u>Emission Unit Number</u>	<u>lbs/hr</u>	<u>TPY</u>	<u>Concentration</u>	<u>Opacity</u>
PM/PM ₁₀ /PM _{2.5}	01-TU	2.80	0.19	0.01 grain/dscf	<20%
	02-30	N/A	N/A	N/A	N/A
	03-03	1.60	1.50	0.01 grain/dscf	<20%
	03-04	N/A	N/A	N/A	N/A
	03-21	8.10	3.00	0.01 grain/dscf	<20%
	12-05	1.60	1.50	0.01 grain/dscf	<20%

VOC: Emission points comprising Wet Paint Spraying Operations per above source list shall not exceed 220.0 Tons per 12 month period rolled monthly.

HAPs*: Facility wide HAP limit shall be 9.4 TPY (any single HAP), 24.4 TPY (all HAPs combined)

PM/PM₁₀ lbs/hr is based on maximum throughput for each emission unit

PM/PM₁₀ TPY is based on the requested annual gallon limit for each emission unit

** HAP as defined by section 112 of the 1990 Clean Air Act Amendments*

Emissions shall not exceed the following for EU 02-31:

<u>Pollutant</u>	<u>lbs/hr.</u>	<u>tons/year</u>	<u>Allowable Concentration</u>
PM/PM ₁₀ /PM _{2.5}	0.13	0.57	0.10 gr/dscf
Opacity	---	---	<20 %
SO _x	0.01	0.04	0.5 lb/MMBtu
NO _x	2.13	9.33	N/A
Total VOC	0.08	0.36	---
HAP	N/A	N/A	N/A
CO	1.24	5.41	N/A

N/A = Not Applicable

Emissions shall not exceed the following for EU 03-22:

<u>Pollutant</u>	<u>lbs/hr.</u>	<u>tons/year</u>	<u>Allowable Concentration</u>
PM/PM ₁₀ /PM _{2.5}	0.04	0.19	0.10 gr/dscf
Opacity	---	---	<20 %
SO _x	0.01	0.01	0.5 lb/MMBtu
NO _x	0.71	3.11	N/A
Total VOC	0.03	0.12	---
HAP	N/A	N/A	N/A
CO	0.41	1.80	N/A

N/A = Not Applicable

Emissions shall not exceed the following for EU 03-23:

<u>Pollutant</u>	<u>lbs/hr.</u>	<u>tons/year</u>	<u>Allowable Concentration</u>
PM/PM ₁₀ /PM _{2.5}	0.04	0.19	0.10 gr/dscf
Opacity	---	---	<20 %
SO _x	0.01	0.01	0.5 lb/MMBtu
NO _x	0.71	3.11	N/A
Total VOC	0.03	0.12	---
HAP	N/A	N/A	N/A
CO	0.41	1.80	N/A

N/A = Not Applicable

Emissions shall not exceed the following for EU 03-24:

<u>Pollutant</u>	<u>lbs/hr.</u>	<u>tons/year</u>	<u>Allowable Concentration</u>
PM/PM ₁₀ /PM _{2.5}	0.01	0.06	0.10 gr/dscf
Opacity	---	---	<20 %
SO _x	0.01	0.01	0.5 lb/MMBtu
NO _x	0.23	1.03	N/A
Total VOC	0.01	0.04	---
HAP	N/A	N/A	N/A
CO	0.14	0.60	N/A

N/A = Not Applicable

Emissions shall not exceed the following for EU 03-25:

<u>Pollutant</u>	<u>lbs/hr.</u>	<u>tons/year</u>	<u>Allowable Concentration</u>
PM/PM ₁₀ /PM _{2.5}	0.02	0.10	0.10 gr/dscf
Opacity	---	---	<20 %
SO _x	0.01	0.01	0.5 lb/MMBtu
NO _x	0.37	1.62	N/A
Total VOC	0.01	0.06	---
HAP	N/A	N/A	N/A
CO	0.21	0.94	N/A

N/A = Not Applicable

Emissions shall not exceed the following for EU 03-26:

<u>Pollutant</u>	<u>lbs/hr.</u>	<u>tons/year</u>	<u>Allowable Concentration</u>
PM/PM ₁₀ /PM _{2.5}	0.03	0.15	0.10 gr/dscf
Opacity	---	---	<20 %
SO _x	0.01	0.01	0.5 lb/MMBtu
NO _x	0.56	2.46	N/A
Total VOC	0.02	0.09	---
HAP	N/A	N/A	N/A
CO	0.33	1.43	N/A

N/A = Not Applicable

Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V, Article VI, Section 5-16(m)
 Polk County Board of Health Rules and Regulations: Chapter V, Article VI, Section 5-14(b)
 Polk County Board of Health Rules and Regulations: Chapter V, Article IV, Section 5-9
 Polk County AQD Construction Permit #2233 Modified #5

Operational Limits & Requirements

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

Process throughput:

- Combined total usage of all paint, primer, thinner, reducers, hardeners, varnishes or any other related products that are sprayed in the booths shall be limited to the following gallon limits per 12-month period, rolled and totaled monthly per emission unit. These throughput limits are for all paint related materials sprayed in the booth, and does not include paint gun flush solvent which is not sprayed.
 (EU 01-TU; 1,900 gallons), (EU 03-03; 26,000 gallons), (EU 03-21; 52,174 gallons), (EU 18-12; 26,000 gallons), (EU 12-05; 26,000 gallons).

Control equipment parameters:

For Emission Units 01-TU, 02-30, 03-03, 03-04, 03-21, 03-33, 12-05:

- Filters must be in place when the exhaust fan is operating.

Work practice standards:

- Routine maintenance and inspection.

- HAP content of the paints sprayed in the painting/surface coating operations shall be compliant with 40 CFR 63 Subpart M- National Emission Standard for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products requirements.
- The spray equipment for the paint booths may have solvent flushed through the lines for cleaning purposes. Flush line solvent must be collected in a lidded bucket or sealed drum.

Reporting & Record keeping:

- The permittee shall record monthly, on a rolling 12-month basis the total amount of material sprayed within each of the above listed emission units.
For Emission Units 01-TU, 02-30, 03-03, 03-04, 03-21, 03-33, 12-05:
- The permittee shall calculate and record the following information on a monthly basis. This monthly tracking is for the combination of the surface coating emission units identified above. Individual emission unit tracking is not required for this permit condition. Each of the following monthly tracking requirements shall also include a twelve month rolling total.
 - (a) The volume (in gallons) of total paint used
 - (b) The total mass of VOC emitted
 - (c) The total mass of HAP emitted
- Solvent shall not be included in the 12 month rolling total requirements unless added to the paint prior to being sprayed.
- All solvents added as thinners to the paint shall be included and accounted for in the VOC and HAP emission calculations.
- If the rolling twelve month total of VOC or HAP emissions is equal to or greater than 85% of allowable emissions listed in *the Emission Limits section above, (Wet Paint Spraying Operations Emission Limits)*, the permittee shall calculate a 365 day rolling total on a weekly basis until such time that the 365 daily rolling total of VOC or HAP emissions fall below the 85% threshold level (187.0 TPY VOC, 8.00 TPY single HAP, or 20.74 TPY all HAPs combined) for a period consisting of the remainder of the month they are in, plus one additional month, then monthly calculations may resume.
- The owner/operator is permitted to use aerosol cans within the facility for touch-up applications provided that the paint is compliant with 40 CFR 63 Subpart M requirements, paint usage is recorded and counted towards the paint booth material usage limits, included in the Annual Title V Emission Inventory, and counted towards the 85% daily recording trigger.
- Technical Data Sheets of all paints and solvents sprayed shall be maintained on-site for a period of five (5) years and shall be made available to representatives of Polk County AQD upon request.
- All records required above shall be maintained on-site for a period of five (5) years and shall be made available to representatives of Polk County AQD upon request.

Authority for Requirement: 40 CFR 63 Subpart M
 567 IAC 23.1(4) "cm"
 Polk County Board of Health Rules and Regulations:
 Chapter V, Article VIII, Section 5-20 (m)
 Polk County AQD Construction Permit #2233 Modified #5

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Discharge Style:

Stack Specification	02-18	02-19	02-20	02-21
Shape	Circular	Circular	Circular	Circular
Size/Diameter	40 inches	40 inches	33 inches	33 inches
Height Above Grade	60 feet	60 feet	60 feet	60 feet
Discharge Style	Vertical, unobstructed	Vertical, unobstructed	Vertical, unobstructed	Vertical, unobstructed
Rated Flow Rate	20,000 acfm	20,000 acfm	8,463 acfm	8,463 acfm
Exhaust Temperature	90° F	90° F	90° F	90° F

Stack Specification	02-22	02-23	02-24	02-25
Shape	Circular	Circular	Circular	Circular
Size/Diameter	10 inches	10 inches	10 inches	10 inches
Height Above Grade	60 feet	60 feet	60 feet	60 feet
Discharge Style	Vertical, unobstructed	Vertical, unobstructed	Vertical, unobstructed	Vertical, unobstructed
Rated Flow Rate	1,891 acfm	1,891 acfm	1,891 acfm	1,891 acfm
Exhaust Temperature	180° F	180° F	180° F	180° F

Stack Specification	02-26	02-31	03-03	03-06
Shape	Circular	Circular	Circular	Rectangular
Size/Diameter	10 inches	33 inches	40 inches	36 x 24 inches
Height Above Grade	60 feet	36 feet	35 feet	37.58
Discharge Style	Vertical, unobstructed	Vertical, unobstructed	Vertical, unobstructed	Horizontal
Rated Flow Rate	1,891 acfm	11,365 acfm	30,000 acfm	19,107 acfm
Exhaust Temperature	180° F	75° F	Ambient	150° F

Stack Specification	03-07	03-08	03-15	03-20
Shape	Circular	Circular	Circular	Circular
Size/Diameter	32 inches	15 inches	32 inches	36 inches
Height Above Grade	39 feet	38 feet	38 feet	34 feet
Discharge Style	Vertical, rain cap	Vertical, unobstructed	Vertical, unobstructed	Vertical, unobstructed
Rated Flow Rate	5,638 acfm	5,638 acfm	21,485 acfm	21,485 acfm
Exhaust Temperature	180° F	180° F	150° F	150° F

Stack Specification	03-21	03-22	03-24	03-25
Shape	Circular	Circular	Circular	Circular
Size/Diameter	52 inches	52 inches	52 inches	52 inches
Height Above Grade	46 feet	46 feet	46 feet	46 feet
Discharge Style	Vertical, unobstructed	Vertical, unobstructed	Vertical, unobstructed	Vertical, unobstructed
Rated Flow Rate	42,000 acfm	42,000 acfm	42,000 acfm	42,000 acfm
Exhaust Temperature	70° F	70° F	70° F	70° F

Stack Specification	03-36	03-37	12-05	04-01
Shape	Circular	Circular	Circular	Circular
Size/Diameter	18 inches	18 inches	36 inches	32 inches
Height Above Grade	15 feet	15 feet	25 feet	38 feet
Discharge Style	Horizontal	Horizontal	Vertical, unobstructed	Vertical, unobstructed
Rated Flow Rate	780 acfm	780 acfm	13,087 acfm	5,638 acfm
Exhaust Temperature	70° F	70° F	75° F	180° F

Stack Specification	01-TU1	01-TU2	02-61
Shape	Circular	Circular	Circular
Size/Diameter	48 inches	48 inches	46 inches
Height Above Grade	40 feet	40 feet	38 feet
Discharge Style	Vertical, unobstructed	Vertical, unobstructed	Vertical, unobstructed
Rated Flow Rate	28,000 scfm	28,000 scfm	21,300 acfm
Exhaust Temperature	70° F	70° F	75° F

Authority for Requirement: Polk County AQD Construction Permit #2233 Modified #5

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

Monitoring Requirements

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

Emission Points 01-TU1, 01-TU2, 02-18 thru 02-26, 02-31, 02-61, 03-03, 03-06, 03-07, 03-08, 03-15, 03-20, 04-01, 03-21, 03-22, 03-24, 03-25, 03-36, 03-37, and 12-05 shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer’s signature, and whether any emissions were observed. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity $\geq 20\%$ is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

Agency Approved Operation & Maintenance Plan Required? Yes No

Weekly

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

Recordkeeping and Reporting

- Maintenance and inspection records will be kept for five (5) years and made available upon request.

Quality Control

- The filter equipment will be operated and maintained according to the manufacturers recommendations.

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: Weld01f

Emission Unit vented through this Emission Point: Weld01
Emission Unit Description: GMAW/SMAW Welding
Raw Material/Fuel: steel welding wire/ rods
Rated Capacity: 3 million pounds/ year

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% opacity

Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V,
Article IV, Section 5-9
Polk County AQD Construction Permit #2596

Pollutant: PM/ PM₁₀/ PM_{2.5}

Emission Limits: 7.80 TPY,
0.10 gr/dscf

Authority for Requirement: Polk County AQD Construction Permit #2596

Pollutant: HAP (Manganese)

Emission Limit: 0.48 TPY

Authority for Requirement: Polk County AQD Construction Permit #2596

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 three million pounds of steel welding wire/rod usage per twelve month period. A monthly log of steel welding wire/rod usage shall be kept on site. Said log shall include a twelve month rolling total.

Work practice standards:

- The steel welding wire/rod usage limit applies to all production and maintenance welding operations.
- Facility shall not use steel welding wire/rod with emission factors greater than those for E70S without first contacting this agency (*Polk County AQD*).

- 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 welding equipment within the plant. These changes shall not be subject to the notification and reporting requirements of [sections 3, 16. A. and 16. E. of this permit] (*Polk County AQD notification and reporting requirements for moving equipment within the plant*) for GMAW/SMAW welding equipment which is installed, relocated or retired within the plant.
- Routine maintenance and inspection

Reporting & Record keeping:

- 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 #2596

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Discharge Style: Emission Unit Weld01 shall be internally vented.

Authority for Requirement: Polk County AQD Construction Permit #2596

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 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 as Appendix 1 to this permit, and hereby incorporated by reference is the web link to 40 CFR 63 Subpart CCCCCC.

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

Reporting & Record keeping:

- 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 22.108(3)

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (from the ground): 20 feet
- Stack Opening, (diameter): 8"
- Exhaust Temperature: Ambient
- Discharge Style: rain cap
- Authority for Requirement: 567 IAC 22.108(3)

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department 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 22.108(3)

IV. General Conditions

This permit is issued under the authority of the Iowa Code subsection 455B.133(8) and in accordance with 567 Iowa Administrative Code chapter 22 and Polk County Board Of Health Rules And Regulations, Chapter V, Air Pollution, (Chapter V), Article X, 5-35.

G1. Duty to Comply

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

G2. Permit Expiration

1. Except as provided in rule 567—22.104(455B), permit expiration terminates a source's right to operate unless a timely and complete application for renewal has been submitted in accordance with rule 567—22.105(455B). *567 IAC 22.116(2)*
2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall submit on forms or electronic format specified by the Department to the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, 7900 Hickman Rd, Suite #1, Windsor Heights, Iowa 50324, two copies (three if your facility is located in Linn or Polk county) of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. An additional copy must also be sent to U.S. EPA Region VII, Attention: Chief of Air Permits, 11201 Renner Blvd., Lenexa, KS 66219. Additional copies to local programs or EPA are not required for application materials submitted through the electronic format specified by the Department. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in 567 IAC 22.105(2). *567 IAC 22.105*

G3. Certification Requirement for Title V Related Documents

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

G4. Annual Compliance Certification

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

G5. Semi-Annual Monitoring Report

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

G6. Annual Fee

1. The permittee is required under subrule 567 IAC 22.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The following forms shall be submitted annually by March 31 documenting actual emissions for the previous calendar year.
 - a. Form 1.0 "Facility Identification";
 - b. Form 4.0 "Emissions unit-actual operations and emissions" for each emission unit;
 - c. Form 5.0 "Title V annual emissions summary/fee"; and
 - d. Part 3 "Application certification."
4. The fee shall be submitted annually by July 1. The fee shall be submitted with the following forms:
 - a. Form 1.0 "Facility Identification";
 - b. Form 5.0 "Title V annual emissions summary/fee";
 - c. Part 3 "Application certification."
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.
6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d".

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

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

1. Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;

3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
4. Sample or monitor, at reasonable times, substances or parameters for the purpose of ensuring compliance with the permit or other applicable requirements. *567 IAC 22.108 (15)"b" 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 22.108 (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 24.2(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 22.108(4), 567 IAC 22.108(12)*

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

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

1. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred at a source:
 - a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 22;
 - b. Compliance test methods specified in 567 Chapter 25; or

- c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.
2. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:
 - a. Any monitoring or testing methods provided in these rules; or
 - b. Other testing, monitoring, or information gathering methods that produce information comparable to that produced by any method in subrule 21.5(1) or this subrule. *567 IAC 21.5(1)-567 IAC 21.5(2)*

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

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

G13. Hazardous Release

The permittee must report any situation involving the actual, imminent, or probable release of a hazardous substance into the atmosphere which, because of the quantity, strength and toxicity of the substance, creates an immediate or potential danger to the public health, safety or to the environment. A verbal report shall be made to the department at (515) 281-8694 and to the local police department or the office of the sheriff of the affected county as soon as possible but not later than six hours after the discovery or onset of the condition. This verbal report must be followed up with a written report as indicated in *567 IAC 131.2(2)*. *567 IAC Chapter 131- State Only*

G14. Excess Emissions and Excess Emissions Reporting Requirements

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

2. Excess Emissions Reporting

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

- i. The identity of the equipment or source operation from which the excess emission originated and the associated stack or emission point.
 - ii. The estimated quantity of the excess emission.
 - iii. The time and expected duration of the excess emission.
 - iv. The cause of the excess emission.
 - v. The steps being taken to remedy the excess emission.
 - vi. The steps being taken to limit the excess emission in the interim period.
- b. **Written Reporting of Excess Emissions.** A written report of an incident of excess emission shall be submitted as a follow-up to all required initial reports to the department within seven days of the onset of the upset condition, and shall include as a minimum the following:
- i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
 - ii. The estimated quantity of the excess emission.
 - iii. The time and duration of the excess emission.
 - iv. The cause of the excess emission.
 - v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.
 - vi. The steps that were taken to limit the excess emission.
 - vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 24.1(1)-567 IAC 24.1(4) and Chapter V, Article VI, 5-17*

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

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

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

G15. Permit Deviation Reporting Requirements

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

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

During the term of this permit, the permittee must notify the department of any source that becomes subject to a standard or other requirement under 567-subrule 23.1(2) (standards of performance of new stationary sources) or section 111 of the Act; or 567-subrule 23.1(3) (emissions standards for hazardous air pollutants), 567-subrule 23.1(4) (emission standards for hazardous air pollutants for source categories) or section 112 of the Act. This notification shall be submitted in writing to the department pursuant to the notification requirements in 40 CFR Section 60.7, 40 CFR Section 61.07, and/or 40 CFR Section 63.9. *567 IAC 23.1(2), 567 IAC 23.1(3), 567 IAC 23.1(4)* 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 22.
 - b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
 - c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
 - d. The changes are not subject to any requirement under Title IV of the Act (revisions affecting Title IV permitting are addressed in rules 567—22.140(455B) through 567 - 22.144(455B));.
 - e. The changes comply with all applicable requirements.
 - f. For each such change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:
 - i. A brief description of the change within the permitted facility,
 - ii. The date on which the change will occur,
 - iii. Any change in emission as a result of that change,
 - iv. The pollutants emitted subject to the emissions trade
 - v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
 - vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
 - vii. Any permit term or condition no longer applicable as a result of the change.*567 IAC 22.110(1)*
2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 22.110(2)*
3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*
4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*
5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 22.108(11)*

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

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

2. Minor Title V Permit Modification.

- a. Minor Title V permit modification procedures may be used only for those permit modifications that satisfy all of the following:
 - i. Do not violate any applicable requirement;
 - ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit;
 - iii. Do not require or change a case by case determination of an emission limitation or other standard, or an increment analysis;
 - iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act;
 - v. Are not modifications under any provision of Title I of the Act; and
 - vi. Are not required to be processed as significant modification under rule 567 - 22.113(455B).
- b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:
 - i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;
 - ii. The permittee's suggested draft permit;
 - iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used; and
 - iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).
- c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against the facility.

3. Significant Title V Permit Modification.

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

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

G19. Duty to Obtain Construction Permits

Unless exempted in 567 IAC 22.1(2) and Chapter V, Article X, 5-33, 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 & Polk County Chapter V, Article X, 5-28, 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 may be allowed by *Chapter V, Article III, 5-7- State Only*

G22. Acid Rain (Title IV) Emissions Allowances

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

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

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

- a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.
- b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.
- c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.
- d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.

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

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

- b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.
 - c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.
 - d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)
 - e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.
 - f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.
3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.
4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,
5. The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

G24. Permit Reopenings

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*
2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.
- a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;
 - b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.
 - c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a"*, *567 IAC 22.108(17)"b"*
3. A permit shall be reopened and revised under any of the following circumstances:
- a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;
 - b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;
 - c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.
 - d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

- e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*
- 4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*
- 5. A notice of intent shall be provided to the Title V source at least 30 days in advance of the date the permit is to be reopened, except that the director may provide a shorter time period in the case of an emergency. *567 IAC 22.114(3)*

G25. Permit Shield

- 1. The director may expressly include in a Title V permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:
 - a. Such applicable requirements are included and are specifically identified in the permit; or
 - b. The director, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.
- 2. A Title V permit that does not expressly state that a permit shield exists shall be presumed not to provide such a shield.
- 3. A permit shield shall not alter or affect the following:
 - a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;
 - b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
 - c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;
 - d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 22.108 (18)*

G26. Severability

The provisions of this permit are severable and if any provision or application of any provision is found to be invalid by this department or a court of law, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected by such finding. *567 IAC 22.108 (8)* 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 22.108 (9)"d"*

G28. Transferability

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

G29. Disclaimer

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

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

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

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

Stack Test Review Coordinator
Iowa DNR, Air Quality Bureau
7900 Hickman Road, Suite #1
Windsor Heights, IA 50324
(515) 725-9545

Within Polk County, stack test notifications, reports, correspondence, and the appropriate fee shall also be directed to the supervisor of the county air pollution program.

567 IAC 25.1(7)"a", 567 IAC 25.1(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:

Chief of Air Permits
U.S. EPA Region 7
Air Permits and Compliance Branch
11201 Renner Boulevard
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
7900 Hickman Road, Suite #1
Windsor Heights, IA 50324
(515) 725-9500

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 1.....NSPS and NESHAP web addresses

(Press control + left click on web address below each CFR Title)

- **40 CFR 60 Subpart III—Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**

<http://www.ecfr.gov/cgi-bin/text-idx?c=ecfr&rgn=div6&view=test&node=40:7.0.1.1.1.97>

- **40 CFR 63- Subpart N—National Emission Standards for Chromium Emissions From Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks**

<http://www.ecfr.gov/cgi-bin/text-idx?SID=761900aad76ff38cbe9a274162f0c732&node=40:10.0.1.1.1.14&rgn=div6>

- **40 CFR 63 Subpart MMMM—National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products**

<http://www.ecfr.gov/cgi-bin/text-idx?SID=761900aad76ff38cbe9a274162f0c732&node=40:13.0.1.1.1.19&rgn=div6#40:13.0.1.1.1.19.292>

- **40 CFR 63- Subpart ZZZZ—NATIONAL EMISSIONS STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES**

<http://www.ecfr.gov/cgi-bin/text-idx?SID=761900aad76ff38cbe9a274162f0c732&node=40:14.0.1.1.1.1&rgn=div6>

- **40 CFR 63- Subpart CCCCCC—National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities**

<http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=1&SID=f90cb6ca6283101b651b6419d95fc286&ty=HTML&h=L&r=SUBPART&n=40v15.0.1.1.1.16>