

# Iowa Department of Natural Resources Title V Operating Permit

**Name of Permitted Facility:** John Deere Des Moines Works

**Facility Location:** 825 SW Irvindale Drive, Ankeny, Iowa 50021

**Air Quality Operating Permit Number:** 04-TV-017

**Expiration Date:** October 6, 2009

**EIQ Number:** 92-6800

**Facility File Number:** 77-01-035

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## Responsible Official

**Name:** David T. Rodger

**Title:** General Manager

**Mailing Address:** P.O. Box 1595, Des Moines, Iowa 50306

**Phone #:** (515) 289-3001

## Permit Contact Person for the Facility

**Name:** Kathy Harmon

**Title:** Manager, Materials Engineer

**Mailing Address:** P.O. Box 1595, Des Moines, Iowa 50306

**Phone #:** (515) 289-3445

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

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

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Douglas A. Campbell, Supervisor of Air Operating Permits Section

Date

John Deere Des Moines Works  
October 6, 2004

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## Abbreviations

acfm.....	actual cubic feet per minute
AQD.....	Polk County Public Health- Air Quality Division
CAS.....	Chemical Abstract Service Registry
CFR.....	Code of Federal Regulation
°F.....	degrees Fahrenheit
EIQ.....	Emissions Inventory Questionnaire
EP.....	Emission Point
EU.....	Emission Unit
gr./dscf.....	grains per dry standard cubic foot
gr./ 100 cf.....	grains per one hundred cubic feet
IAC.....	Iowa Administrative Code
IDNR.....	Iowa Department of Natural Resources
ISCST.....	Industrial Source Complex Short Term Dispersion Model
MACT.....	Maximum Achievable Control Technology
µg/m <sup>3</sup> .....	Micrograms per Cubic Meter
MM BTU/ Hr.....	Million British Thermal Units per Hour
MSDS.....	Material Safety Data Sheet(s)
MVAC.....	Motor Vehicle Air Conditioner
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
scfm.....	standard cubic feet per minute
SIC.....	Standard Industrial Classification
TPY.....	Tons Per Year
USEPA.....	United States Environmental Protection Agency
VCU.....	Vapor Combustion Unit

### **Pollutants**

PM.....	Particulate Matter
PM <sub>10</sub> .....	Particulate Matter ten microns or less in diameter
SO <sub>2</sub> .....	Sulfur dioxide
NO <sub>x</sub> .....	Nitrogen Oxides
VOC(s).....	Volatile Organic Compound(s)
CO.....	Carbon Monoxide
HAP(s).....	Hazardous Air Pollutant(s)
THC.....	Total HydroCarbons

# I. Facility Description and Equipment List

Facility Name: John Deere Des Moines Works

Permit Number: 77-01-035

Facility Description: Manufacturing of farm machinery and equipment, SIC 3523

## Equipment List

<b>Emission Point Number</b>	<b>Associated Emission Unit(s) Number (s)</b>	<b>Associated Emission Unit Description</b>
01-22	01-22	5984 Sauder Forge Furnace
01-23	01-22	5984 Sauder Forge Furnace
01-25	01-25	SFE Washer, Temper Furnace
01-26	01-25	SFE, Temper Furnace
01-28	01-28	6213 Wheelabrator Shot Blast
01-29	01-29	Roller Hearth Furnace
01-30	01-29	Roller Hearth Furnace
02-01	02-01	Chrome Plating
02-02	02-02	Electropolish Vent
02-15	02-15	20055 Paint Curing Oven (batch)
02-15	02-16	20055 Paint Curing Oven (batch)
02-16	02-16	20055 Paint Touch-Up Booth (Stack #1)
02-17	02-16	20055 Paint Touch-Up Booth (Stack #2)
02-18	02-31	E-Coat System
02-19	02-31	E-Coat System
02-20	02-31	E-Coat System
02-21	02-31	E-Coat System
02-22	02-31	Paint Bake Oven Exhaust #5
02-23	02-31	Paint Bake Oven Exhaust #4
02-24	02-31	Paint Bake Oven Exhaust #3
02-25	02-31	Paint Bake Oven Exhaust #2
02-26	02-31	Paint Bake Oven Exhaust #1
02-31	02-31	E-Coat & Post Rinse
02-33	02-33	Burner Exhaust #2, Prep. Machine Stage 2A
02-34	02-34	Burner Exhaust #3, Prep. Machine Stage 2
02-35	02-35	Burner Exhaust #2, Prep. Machine Stage 1 H
02-38	02-38	Boiler, 400 bhp, West
02-39	02-39	Boiler, 400 bhp, East
02-40	02-40	6262 Surface Comb. Atmos. Generator
02-44	02-44	6346 Temper Furnace (D39)
02-51	02-51	7153 Chrome Plater

John Deere Des Moines Works  
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02-52	02-52	7153 Electropolish
03-02	03-02	Boiler, 300 bhp – S (60PSI)
03-03	03-03	Touch up Paint Booth
03-04	03-04	Green Paint Dip Tank STK#1, Building 3
03-05	03-04	Green Paint Dip Tank STK#2, Building 3
03-20	03-04	Exhaust Black Paint Dip Tank (Main), Building 3
03-35	03-04	Exhaust – Black Paint Dip Tank (Pit), Building 3
03-06	03-06	Paint Curing Oven – Entrance South, Building 3
03-07	03-06	Paint Curing Oven, Building 3
04-01	03-06	Paint Curing Oven – Exit North, Building 3 Dip Tanks
04-02	03-06	Paint Curing Oven, Building 3 Dip Tanks
03-09	03-08	Caustic Strip Tank – 2,870 gallons
03-10	03-10	6308 Forge Furnace (Box)
03-11	03-11	6391 Forge Furnace (Slot)
03-21	03-21	Spray Paint Booth – North #1, Building 3 Paint Booths
03-22	03-21	Spray Paint Booth – North #2, Building 3 Paint Booths
03-24	03-21	Spray Paint Booth – South #1, Building 3 Paint Booths
03-25	03-21	Spray Paint Booth – South #2, Building 3 Paint Booths
03-22	03-22	Air Make Up Unit
03-21	03-23	Air Make Up Unit
03-24	03-24	Air Make Up Unit
03-25	03-25	Air Make Up Unit
03-28	03-28	Washer – Heat Stage 3
03-29	03-29	Washer – Heat Stage 2
03-30	03-30	Washer – Heat Stage 1B
03-31	03-31	Washer – Heat Stage 1A
11-09	11-09	Rotomolding Oven
11-10	11-09	Rotomolding Oven
11-11	11-09	Rotomolding Oven
11-12	11-12	Flame Cut Vent
12-05	12-05	Exhaust – Spray Paint Booth
12-06	12-06	Parts Washer Vent
16-01	16-01	Waukesha Generator F817 G
18-18	18-01-Oven	Paint Bake Oven
18-01	18-01-PB	Spray Paint Booth Exhaust #1
18-02	18-01-PB	Spray Paint Booth Exhaust #2
18-03	18-01-PB	Spray Paint Booth Exhaust #3
18-04	18-01-PB	Spray Paint Booth Exhaust #4
18-05	18-01-PB	Spray Paint Booth Exhaust #5
18-06	18-01-PB	Spray Paint Booth Exhaust #6
18-07	18-01-PB	Spray Paint Booth Exhaust #7
18-08	18-01-PB	Spray Paint Booth Exhaust #8
18-09	18-01-PB	Spray Paint Booth Exhaust #9
18-10	18-01-PB	Spray Paint Booth Exhaust #10
18-11	18-01-PB	Spray Paint Booth Exhaust #11
18-12	18-01-PB	Spray Paint Booth Exhaust #12
18-13	18-12	Touch Up Paint Booth Exhaust #1

18-14	18-12	Touch Up Paint Booth Exhaust #2
18-15	18-12	Touch Up Paint Booth Exhaust #3
18-16	18-12	Touch Up Paint Booth Exhaust #4
CT-FUG	CT-001	Cooling Tower Fugitives, Building 1 Cooling Tower
02-10	02-10	Engine Exhaust (2pickups)
02-11	02-11	Engine Exhaust (2pickups)
02-12	02-12	Engine Exhaust (1pickup)
02-13	02-13	Engine Exhaust (1pickup)
02-14	02-14	Engine Exhaust (1pickup)
02-54	02-54	High Cycle Sprayer Engine Exhaust (2pickups)
02R-01	02R-01	Engine Exhaust
14-01	14-01	Engine Exhaust (6pickups)
18-19	18-19	Engine Exhaust (1pickup)
18X-01	18X-01	Engine Test Station (5pickups)
25-01	25-01	Engine Exhaust (3pickups)
25-02	25-02	Engine Exhaust (3pickups)
28-01	28-01	Engine Exhaust (1pickup)
28X-01	28X-01	Engine Exhaust (1pickup)
28X-02	28X-02	Engine Exhaust (1pickup)
28X-03	28X-03	Engine Exhaust (1pickup)
28X-04	28X-04	Engine Exhaust (1pickup)
F01-01	F01-01	Plant Wide Fugitives, Janitorial Fugitives
F01-02	F01-02	Plant Wide Fugitives
F01-03	F01-03	Plant Wide Fugitives, HAP Fugitives
F01-04	F01-04	Plant Wide Fugitives, HAP Fugitives
F01-05	F01-05	Plant Wide Fugitives, HAP Fugitives
F01-06	F01-06	Plant Wide Fugitives, HAP Fugitives
F01-07	F01-07	Plant Wide Fugitives, HAP Fugitives

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## Insignificant Equipment List

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Insignificant Emission Unit Number	Insignificant Emission Unit Description
02-41	1240 Intergral Quench Furnace
02-42	1465 Integral Quench Furnace
02-43	5267 Integral Quench Furnace
02-45	7191 Internal Quench Furnace
02-46	NOx Rust Tank
12-01	Heat Treat I.Q. Furnace
CT-002	Building 25 Cooling Tower
CT-003	Building 2, Department 30B Cooling Tower
CT-004	Building 2, Department 40C Cooling Tower
CT-005	Building 2X Cooling Tower
D36-AWSE	Department 36 Welding AWSE70S-3 Electrode
D40W-AWS	Department 40W Welding AWSE7018 Electrode
D40W-AWS	Department 40W Welding AWSE71T-1 Electrode
D41N-AWS	Department 41N Welding AWSE71T-1 Electrode
D51-AWSE	Department 51 Welding AWSE7018 Electrode
D72-AWSE	Department 72 Welding AWSE7018 Electrode
D72-AWSE	Department 72 Welding AWSE71T-1 Electrode
D88-AWSE	Department 88 Welding AWSE71T-1 Electrode
01HEAVY	Miscellaneous Heavy Oils
T-59	B/14 Unleaded Gas Storage Tank – 6,000 gallons
T-60	B/14 Diesel Fuel Storage Tank – 6,000 gallons
T-61	B/2-G Diesel Fuel Storage Tank – 6,000 gallons
T-62	B/2-G J-20C Oil – 8,225 gallons
T-63	B/2-G Antifreeze Storage Tank – 7,050 gallons
T-67	B/11 SW Dub 434 Storage Tank – 1,800 gallons
T-68	B/11 SE Dub 434 Storage Tank – 1,800 gallons
T-69	B/11 CW Citgo #68 Hyd Storage Tank – 1,350 gallons
T-70	B/11 CE Citgo 425 Cut Storage Tank – 1,350 gallons
T-72	B/1 D/27 Type K Quench Storage Tank – 10,000 gallons

## II. Plant-Wide Conditions

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

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

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### Permit Duration

The term of this permit is: 5 years  
Commencing on: October 6, 2004  
Ending on: October 6, 2009

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

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### Emission Limits:

*Unless specified otherwise in the Emission Point Specific Conditions, the source is subject to the specified emission limit and supporting regulation:*

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

Sulfur Dioxide (SO<sub>2</sub>): 500 parts per million by volume

Authority for Requirement: 567 IAC 23.3(3)"e"  
Polk County Board of Health Rules and Regulation  
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)

*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

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### **Compliance Plan**

*The owner/operator shall comply with the applicable requirements listed below. The compliance status is based on information provided by the applicant.*

#### 40 CFR 63 – Subpart M MMM

The permittee shall comply with the applicable requirements of 40 CFR 63 Subpart M MMM – Surface Coating of Miscellaneous Metal Parts and Products. This subpart was finalized in the Federal Register on January 2, 2004. Currently John Deere Des Moines Works is subject to a portion of this NESHAP. If limitations are not imposed upon John Deere Des Moines Works to avoid Subpart M MMM, then the compliance date for existing affected sources is three (3) years upon finalization or 01/02/07.

Authority for Requirement: 40 CFR 63 – Subpart M MMM

#### 40 CFR 63 – Subpart P P P P P

John Deere Des Moines Works is subject to subpart P P P P P. The subpart was promulgated on May 27, 2003. Per 63 CFR 63.9290(a), the affected units are engine test cells covered under Polk County construction permit #1606. These engine test cells were constructed prior to May 14, 2002. Per 63 CFR 63.9290(b), these existing sources do not have to meet the requirements of subpart P P P P P and of subpart A of Part 63.

Authority for Requirement: 40 CFR 63 – Subpart P P P P P

Unless otherwise noted in Section III of this permit, John Deere Des Moines Works is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which become effective during the permit term, John Deere Des Moines Works shall comply with such requirements in a timely manner.

Authority for Requirement: 567 IAC 22.108(15)

### III. Emission Point-Specific Conditions

Facility Name: John Deere Des Moines Works

Permit Number: 04-TV-017

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**Emission Point ID Number: 01-22, 01-23**

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#### Applicable Requirements

Emission Unit vented through this Emission Point(s): 01-22

Emission Unit Description: 5984 Sauder Forge Furnace

Raw Material/Fuel: Natural Gas

Rated Capacity: 8000 cubic ft. of natural gas per hour

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

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

Pollutant: Opacity

Emission Limit(s): No Visible Emissions

Authority for Requirement: Polk County Air Quality Construction Permit # 0900

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.4205 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit # 0900

Pollutant: PM

Emission Limit(s): 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

Pollutant: SO<sub>2</sub>

Emission Limit(s): 500 parts per million by volume, 0.021 tons per year

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

Polk County Air Quality Construction Permit #0900

Pollutant: NO<sub>x</sub>

Emission Limit(s): 3.504 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit # 0900

Pollutant: VOC

Emission Limit(s): 0.185 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit # 0900

Pollutant: CO

Emission Limit(s): 0.7358 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit # 0900

**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 #0900

**Periodic Monitoring Requirements**

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

Emission Point (01-22, 01-23) 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

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

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

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: 01-25 & 01-26**

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**Applicable Requirements**

Emission Unit vented through this Emission Point(s): 01-25  
Emission Unit Description: SFE Washer, Temper Furnace  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 5500 cubic ft. of natural gas per hour

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

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

Pollutant: Opacity  
Emission Limit(s): No Visible Emissions  
Authority for Requirement: Polk County Air Quality Construction Permit #0901

Pollutant: PM<sub>10</sub>  
Emission Limit(s): 0.2891 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #0901

Pollutant: PM  
Emission Limit(s): 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

Pollutant: SO<sub>2</sub>  
Emission Limit(s): 500 parts per million by volume, 0.0145 tons per year  
Authority for Requirement: 567 IAC 23.3(3)"e"  
Polk County Air Quality Construction Permit #0901

Pollutant: NO<sub>x</sub>  
Emission Limit(s): 2.409 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #0901

Pollutant: VOC  
Emission Limit(s): 0.1272 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #0901

Pollutant: CO  
Emission Limit(s): 0.5059 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #0901

**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 #0901

**Periodic Monitoring Requirements**

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

Emission Point (01-25 & 01-26) 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

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

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

Authority for Requirement: 567 IAC 22.108(3)"b"

## **Emission Point ID Number: 01-28**

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### **Associated Equipment**

Emissions Control Equipment ID Number: CE01-28  
Emissions Control Equipment Description: Dry Filter Cartridge

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### **Applicable Requirements**

Emission Unit vented through this Emission Point(s): 01-28  
Emission Unit Description: 6213 Wheelabrator Shot Blast  
Raw Material/Fuel: Shot  
Rated Capacity: 0.45 Tons/Hr

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

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

Pollutant: Opacity  
Emission Limit(s): <20% opacity  
Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V, Article IV, Section 5-9, Polk County Air Quality Construction Permit #0432

Pollutant: PM<sub>10</sub>  
Emission Limit(s): 0.01 gr./dscf  
Authority for Requirement: Polk County Air Quality 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 Construction Permit #0432

**Periodic Monitoring Requirements**

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

Emission point (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 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**

*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.*

*Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan 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)"b"

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**Emission Point ID Number: 01-29 & 01-30**

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**Associated Equipment**

Associated Emission Unit ID Numbers: 01-29

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**Applicable Requirements**

Emission Unit vented through this Emission Point: 01-29

Emission Unit Description: Roller Hearth Furnace

Raw Material/Fuel: Natural gas

Rated Capacity: 4500 cubic ft. of natural gas per hour

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

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

Pollutant: Opacity

Emission Limit(s): No Visible Emissions

Authority for Requirement: Polk County Air Quality Construction Permit #1255

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.16 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1255

Pollutant: PM

Emission Limit(s): 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

Pollutant: SO<sub>2</sub>

Emission Limit(s): 500 parts per million by volume, 0.012 tons per year

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

Polk County Air Quality Construction Permit #1255

Pollutant: NO<sub>x</sub>

Emission Limit(s): 1.03 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1255

Pollutant: VOC

Emission Limit(s): 0.011 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1255

Pollutant: CO

Emission Limit(s): 1.73 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1255

**Operational Limits & Requirements**

John Deere Des Moines Works  
October 6, 2004

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

Process throughput: Only pipe-line quality natural gas shall be combusted in the Roller Hearth Furnace, Forging (EU-01-29)

Work practice standards: Routine maintenance and inspection

Authority for Requirement: Polk County Construction Permit #1255

**Periodic Monitoring Requirements**

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

Emission Point (01-29 & 01-30) 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

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

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

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: 02-01**

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**Associated Equipment**

Emissions Control Equipment ID Number: CE02-01

Emissions Control Equipment Description: Tri-mer Fan & Separator, Composite mesh-pad system, Vertical Mist Eliminator KCH Spectra U-111-9000

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**Applicable Requirements**

Emission Unit vented through this Emission Point: 02-01

Emission Unit Description: Chrome Plater

Raw Material/Fuel: Spindles

Rated Capacity: 810.0 spindles/Hr

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

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

Pollutant: Opacity

Emission Limit(s): No Visible Emissions

Authority for Requirement: Polk County Air Quality Construction #0120 & #0890

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.01 gr./dscf

Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V, Article VI, Section 5-15, Polk County Air Quality Construction Permit #0120 & #0890

Pollutant: PM

Emission Limit(s): 0.979 lb./hr

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

Pollutant: HAP – Total Chromium

Emission Limit(s): 0.01197 milligrams/dscm

Authority for Requirement: Polk County Air Quality Construction Permit #0120 & #0890, 40 CFR 63 subpart (N), 567 IAC 23.1(4) "n"

**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. The composite mesh-pad system shall be operated within plus or minus one (1) inch of water column of pressure drop value established during the initial performance test. The composite mesh-pad system shall not exceed 2.76 inches water column or drop below 0.76 inches water column.	Initial performance test

\* 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.

Pitot Tube	Backflush with water, or remove from the duct and rinse with fresh water. Replace in the duct and rotate 180 degrees to ensure that the same zero reading is obtained. Check pitot tube ends for damage. Replace pitot tube if cracked or fatigued.	Once per quarter
Stalagmometer	Follow manufacturers recommendations	Per manufacturer

Authority for Requirement: 40 CFR 63 subpart (N), 567 IAC 23.1(4)"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.

Authority for Requirement: 40 CFR 63.347(g), 567 IAC 23.1(4)"n"

**Periodic Monitoring Requirements**

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

The pressure drop across the composite mesh-pad (CMP) system (CE02-01) on #1062 Chrome plater shall be observed and recorded once per day. The pressure drop across the composite mesh-pad (CMP) system (CE02-01) on #1062 Chrome plater shall not exceed 2.76 inches water column or drop below 0.76 inches water column. If the pressure drop exceeds plus or minus one (1) inch of water column of pressure drop value established during the initial 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, 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.

**Stack Testing:**

John Deere Des Moines Works  
October 6, 2004

Pollutant – Chrome Cr  
1st Stack Test Completed on November 5, 1996  
Test Method – 40 CFR 63.344, Reference Method 306.  
Authority for Requirement - 40 CFR 63 subpart (N), 567 IAC 23.1(4)"n"

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

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

*The permittee shall develop and keep an operation and maintenance plan (O&M plan) on record for the life of the affected source or until the source is no longer subject to 40 CFR 63, Subpart N. Upon revision of the O&M plan, the permittee shall keep all previous versions of the O&M plan on record for inspection for a period of five years after each revision. The O&M plan for this facility shall include the items listed in 40 CFR 63.342(f)(3)(i).*

Authority for Requirement: 40 CFR 63 subpart (N), 567 IAC 23.1(4)"n"

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**Emission Point ID Number: 02-02**

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**Applicable Requirements**

Emission Unit vented through this Emission Point: 02-02

Emission Unit Description: Electropolish

Raw Material/Fuel: spindles

Rated Capacity: 810.0 spindles/Hr

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

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

Pollutant: Opacity

Emission Limit(s): <20% opacity

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

Pollutant: PM

Emission Limit(s): 0.10 gr./dscf

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

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic 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**

John Deere Des Moines Works  
October 6, 2004

**Facility Maintained Operation & Maintenance Plan Required? Yes  No**   
Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: 02-15, 02-16, 02-17**

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**Associated Equipment**

Emissions Control Equipment ID Number: CE02-16  
Emissions Control Equipment Description: Dry Filters

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**Applicable Requirements**

EP	EU	Emission Unit Description	Raw Material/Fuel	Rated Capacity
02-15	02-15	20055 Paint Curing Oven (Batch)	Natural Gas	5.0 MM BTU/ Hr
02-15	02-16	20055 Paint Curing Oven (Batch)	Natural Gas	5.0 MM BTU/ Hr
02-16	02-16	20055 Paint Touch-Up Booth (Stack #1)	Paints and Solvent	0.18 gallons per hour
02-17	02-16	20055 Paint Touch-Up Booth (Stack #2)	Paints and Solvent	0.18 gallons per hour

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

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

Pollutant: Opacity

Emission Limit(s): <20% opacity

Authority for Requirement: Polk County Air Quality Construction Permit #1607

Pollutant: PM

Emission Limit(s): 0.01 gr./dscf, 0.72 tons per year

Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V, Article VI, Section 5-15, Polk County Air Quality Construction Permit #1607

Pollutant: SO<sub>2</sub>

Emission Limit(s): 500 parts per million by volume, 0.01 tons per year

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

Polk County Air Quality Construction Permit #1607

Pollutant: NO<sub>x</sub>

Emission Limit(s): 1.63 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1607

Pollutant: VOC  
Emission Limit(s): 10.87 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #1607

Pollutant: CO  
Emission Limit(s): 1.37 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #1607

Pollutant: HAP- Formaldehyde  
Emission Limit(s): 0.006 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #1607,  
567 IAC 22.108(3)

Pollutant: HAP- Naphthalene  
Emission Limit(s): 0.069 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #1607,  
567 IAC 22.108(3)

**Operational Limits & Requirements**

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

Process throughput:

1. Combined total usage of all paint, solvent, primer, thinner, reducers, hardeners, varnishes or any other related products shall be limited to three thousand (3,000) gallons per 12 month period rolled and totaled monthly. Paints and solvents used in painting/surface coating operations shall be less than or equal to 7.19 lbs Volatile Organic Compounds per gallon as stated on manufacturers material safety data sheets (MSDS).

Work practice standards:

1. Replacement filters shall be maintained on sited and available at all time. Filters must be in place when the exhaust fan is operating.

Reporting & Record keeping:

1. The permittee shall maintain a monthly log of gallons of paint used and hours of operation each month.
2. Monthly usage records must be maintained on site for a period of five (5) years and made available to representatives of this department upon request.

Authority for Requirement: Polk County Air Quality Construction Permit #1607.

3. The permittee shall maintain a monthly log of HAP emissions calculated and recorded monthly.

Authority for Requirement: 567 IAC 22.108(3)

**Periodic Monitoring Requirements**

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

Emission Point (02-16, 02-17) 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 ≥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**

**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.

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: 02-18, 02-19, 02-20, 02-21, 02-22, 02-23, 02-24, 02-25, 02-26, 02-31**

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**Applicable Requirements**

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
02-18	02-31	E-Coat System	Paint	0.05 tons per hour
02-19	02-31	E-Coat System	Paint	0.05 tons per hour
02-20	02-31	E-Coat System	Paint	0.05 tons per hour
02-21	02-31	E-Coat System	Paint	0.05 tons per hour
02-22	02-31	E-Coat System, Paint Bake Exhaust #5	Paint	0.05 tons per hour
02-23	02-31	E-Coat System, Paint Bake Exhaust #4	Paint	0.05 tons per hour
02-24	02-31	E-Coat System, Paint Bake Exhaust #3	Paint	0.05 tons per hour
02-25	02-31	E-Coat System, Paint Bake Exhaust #2	Paint	0.05 tons per hour
02-26	02-31	E-Coat System, Paint Bake Exhaust #1	Paint	0.05 tons per hour
02-31	02-31	E-Coat System, E-Coat & Post Rinse	Paint	0.05 tons per hour

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

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

Pollutant: Opacity

Emission Limit(s): <20% opacity

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

Pollutant: PM

Emission Limit(s): 0.01 gr./dscf

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

Pollutant: SO<sub>2</sub>

Emission Limit(s): 500 parts per million by volume, 0.01 tons per year

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

**Periodic Monitoring Requirements**

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

Emission Point (02-18, 02-19, 02-20, 02-21, 02-22, 02-23, 02-24, 02-25, 02-26, 02-31) 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**

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: 02-33**

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**Applicable Requirements**

Emission Unit vented through this Emission Point: 02-33  
Emission Unit Description: Burner Exhaust #2, Surface Prep Machine Stage 2A  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 3.5 MM Btu./ Hr

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

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

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

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

Pollutant: SO<sub>2</sub>  
Emission Limit(s): 500 parts per million by volume  
Authority for Requirement: 567 IAC 23.3(3)"e"

**Periodic Monitoring Requirements**

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

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

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

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: 02-34**

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**Applicable Requirements**

Emission Unit vented through this Emission Point: 02-34  
Emission Unit Description: Burner Exhaust #3, Surface Prep Machine Stage 2  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 3.5 MM Btu/ Hr

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

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

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

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

Pollutant: SO<sub>2</sub>  
Emission Limit(s): 500 parts per million by volume  
Authority for Requirement: 567 IAC 23.3(3)"e"

**Periodic Monitoring Requirements**

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

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

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

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: 02-35**

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**Applicable Requirements**

Emission Unit vented through this Emission Point: 02-35  
Emission Unit Description: Burner Exhaust #2, Surface Prep Machine Stage 1H  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 12.0 MM Btu/ Hr

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

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

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

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

Pollutant: SO<sub>2</sub>  
Emission Limit(s): 500 parts per million by volume  
Authority for Requirement: 567 IAC 23.3(3)"e"

**Periodic Monitoring Requirements**

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

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

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

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: 02-38**

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**Applicable Requirements**

Emission Unit vented through this Emission Point: 02-38

Emission Unit Description: Boiler, 400 BHP, WEST

Raw Material/Fuel: Natural Gas, Fuel Oil

Rated Capacity: 0.016 MM cf/Hr

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

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

Pollutant: Opacity

Emission Limit(s): <20% Opacity

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

Pollutant: PM

Emission Limit(s): 0.6 lb./MMBtu

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

Pollutant: SO<sub>2</sub>

Emission Limit(s): 0.5 lbs/MM Btu, 500 parts per million by volume (burning natural gas)

Authority for Requirement: 567 IAC 23.3(3)"b", 567 IAC 23.3(3)"e", Polk County Board of Health Rules and Regulations: Chapter V, Article IX, Section 5-27(2)

**Operational Limits & Requirements**

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

Sulfur content for #1 and #2 fuel oil shall not exceed 0.5% by weight.

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

**Periodic Monitoring Requirements**

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

When burning fuel oil emission point (02-38) 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**

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: 02-39**

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**Applicable Requirements**

Emission Unit vented through this Emission Point: 02-39

Emission Unit Description: Boiler, 400 BHP, EAST

Raw Material/Fuel: Natural Gas, Fuel Oil

Rated Capacity: 0.016 MM cf/Hr

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

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

Pollutant: Opacity

Emission Limit(s): <20% Opacity

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

Pollutant: PM

Emission Limit(s): 0.6 lb./MMBtu

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

Pollutant: SO<sub>2</sub>

Emission Limit(s): 0.5 lbs/MM Btu, 500 parts per million by volume (burning natural gas)

Authority for Requirement: 567 IAC 23.3(3)"b", 567 IAC 23.3(3)"e", Polk County Board of Health Rules and Regulations: Chapter V, Article IX, Section 5-27(2)

**Operational Limits & Requirements**

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

Sulfur content for #1 and #2 fuel oil shall not exceed 0.5% by weight.

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

**Periodic Monitoring Requirements**

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

When burning fuel oil emission point Emission Point (02-39) 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**

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: 02-40**

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**Applicable Requirements**

Emission Unit vented through this Emission Point: 02-40  
Emission Unit Description: 6262 S.C. Atmospheric Generator  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 414 cubic feet natural gas /Hr

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

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

Pollutant: Opacity  
Emission Limit(s): No Visible Emissions  
Authority for Requirement: Polk County Air Quality Construction Permit #0902

Pollutant: PM<sub>10</sub>  
Emission Limit(s): 0.0218 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #0902

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

Pollutant: SO<sub>2</sub>  
Emission Limit(s): 500 parts per million by volume, 0.00025 tons per year  
Authority for Requirement: 567 IAC 23.3(3)"e"  
Polk County Air Quality Construction Permit #0902

Pollutant: NO<sub>x</sub>  
Emission Limit(s): 0.1813 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #0902

Pollutant: VOC  
Emission Limit(s): 0.0096 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #0902

Pollutant: CO  
Emission Limit(s): 0.0381 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #0902

**Operational Limits & Requirements**

John Deere Des Moines Works  
October 6, 2004

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

Process throughput: Maximum of 414 cubic feet per hour of natural gas.

Work practice standards: Routine maintenance and inspection

Authority for Requirement: Polk County Construction Permit #0902

**Periodic Monitoring Requirements**

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

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

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

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: 02-44**

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**Applicable Requirements**

Emission Unit vented through this Emission Point: 02-44  
Emission Unit Description: 6346 Temper Furnace (D39)  
Raw Material/Fuel: Natural gas  
Rated Capacity: 100 cubic feet/Hr

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

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

Pollutant: Opacity  
Emission Limit(s): No Visible Emissions  
Authority for Requirement: Polk County Air Quality Construction Permit #0903

Pollutant: PM<sub>10</sub>  
Emission Limit(s): 0.0053 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #0903

Pollutant: PM  
Emission Limit(s): 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

Pollutant: SO<sub>2</sub>  
Emission Limit(s): 500 parts per million by volume, 0.00025 tons per year  
Authority for Requirement: 567 IAC 23.3(3)"e"  
Polk County Air Quality Construction Permit #0903

Pollutant: NO<sub>x</sub>  
Emission Limit(s): 0.0438 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #0903

Pollutant: VOC  
Emission Limit(s): 0.0023 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #0903

Pollutant: CO  
Emission Limit(s): 0.0092 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #0903

**Operational Limits & Requirements**

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

Process throughput: Maximum of 100 cubic feet per hour of natural gas.

Work practice standards: Routine maintenance and inspection

Authority for Requirement: Polk County Construction Permit #0903

**Periodic Monitoring Requirements**

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

Emission Point (02-44) 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

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

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

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: 02-51**

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**Associated Equipment**

Emissions Control Equipment ID Number: CE02-51

Emissions Control Equipment Description: Composite mesh-pad system, KCH Spectra U-111-9000

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**Applicable Requirements**

Emission Unit vented through this Emission Point: 02-51

Emission Unit Description: 7153 Chrome Plater

Raw Material/Fuel: Spindles

Rated Capacity: 1620.0 spindles/Hr

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

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

Pollutant: Opacity

Emission Limit(s): <20% Opacity

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

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.01 gr./dscf

Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V, Article VI, Section 5-15, Polk County Air Quality Construction Permit #0807

Pollutant: PM

Emission Limit(s): 1.285 lb./hr

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

Pollutant: HAP – Total Chromium

Emission Limit(s): 0.000011 milligrams/dscm

Authority for Requirement: Polk County Air Quality Construction Permit #0807, 40 CFR 63 subpart (N), 567 IAC 23.1(4)"n"

**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) and Mist Eliminator system on 7153 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. The composite mesh-pad system shall be operated within plus or minus one (+1) inch of water column of pressure drop value established during the initial performance test. The composite mesh-pad system shall not exceed 4.2 inches water column or drop below 2.2 inches water column.	Initial performance test
Pitot Tube	Backflush with water, or remove from the duct and rinse with fresh water. Replace in the duct and rotate 180 degrees to ensure that the same zero reading is obtained. Check pitot tube ends for damage. Replace pitot tube if cracked or fatigued.	Once per quarter
Stalagmometer	Follow manufacturers recommendations	Per manufacturer

Authority for Requirement: 40 CFR 63 subpart (N), 567 IAC 23.1(4)"n"

Reporting & Record keeping:

Summary of record keeping requirements

The owner or operator shall maintain the following records.	
Compliance status reports for major sources	Two times per year, or four times per year if exceedances occur or if requested by administrator.

Authority for Requirement: 40 CFR 63.347(g), 567 IAC 23.1(4)"n"

**Periodic Monitoring Requirements**

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

The pressure drop across the composite mesh-pad (CMP) system (CE02-51) on #7153 Chrome plater shall be observed and recorded once per day. The pressure drop across the composite mesh-pad (CMP) system (CE02-51) on #7153 Chrome plater shall not exceed 4.2 inches water column or drop below 2.2 inches water column. If the pressure drop exceeds plus or minus one ( $\pm 1$ ) inch of water column of pressure drop value established during the initial 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, 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 (02-51) 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, 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.

**Stack Testing:**

Pollutant – Chrome Cr

1st Stack Test Completed on May 1, 1998  
Test Method – 40 CFR 63.344, Reference Method 306.  
Authority for Requirement - 40 CFR 63 subpart (N), 567 IAC 23.1(4)"n"

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

**Facility Maintained Operation & Maintenance 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.*

*Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan 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)"b"

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## **Emission Point ID Number: 02-52**

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### **Applicable Requirements**

Emission Unit vented through this Emission Point: 02-52  
Emission Unit Description: 7153 Electropolish  
Raw Material/Fuel: Spindles  
Rated Capacity: 355 lb./Hr

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

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

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

Pollutant: PM<sub>10</sub>  
Emission Limit(s): 0.225 lb./hr, 0.9868 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #0808

Pollutant: PM  
Emission Limit(s): 0.01 gr./dscf  
Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V, Article VI, Section 5-15

### **Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic 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.

**Periodic Monitoring Requirements**

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

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

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

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: 03-02**

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**Applicable Requirements**

Emission Unit vented through this Emission Point: 03-02  
Emission Unit Description: Boiler, 300 bhp – S (60PSI)  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 10.04 MM Btu/Hr

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

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

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

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

Pollutant: SO<sub>2</sub>  
Emission Limit(s): 500 parts per million by volume  
Authority for Requirement: Polk County Board of Health Rules and Regulations Chapter V, Article IX, Section 5-27., 567 IAC 23.3(3)e.

**Periodic Monitoring Requirements**

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

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

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

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: 03-03**

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**Associated Equipment**

Emissions Control Equipment ID Number: CE03-03  
Emissions Control Equipment Description: Dry Filters

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**Applicable Requirements**

Emission Unit vented through this Emission Point: 03-03  
Emission Unit Description: Touch up Paint Booth  
Raw Material/Fuel: Paint  
Rated Capacity: 80 milliliters per minute

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

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

Pollutant: Opacity

Emission Limit(s): None Allowed

Authority for Requirement: Polk County Air Quality Construction Permit #1007

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.10 tons per year, 0.01 grains per dscfm tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1007

Pollutant: PM

Emission Limit(s): 0.01 gr./dscf

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

Pollutant: VOC

Emission Limit(s): 8.55 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1007

### **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 shall be limited to (2000) gallons per 12 month period rolled and totaled monthly. Paints and solvents used in painting/surface coating operations shall be less than or equal to 8.55 lbs Volatile Organic Compounds per gallon as stated on manufacturers material safety data sheets (MSDS).

#### **Control equipment parameters:**

Check filters and replace as necessary.

#### **Work practice standards:**

Replacement filters shall be maintained on sited and available at all time. Filters must be in place when the exhaust fan is operating.

#### **Reporting & Record keeping:**

The permittee shall maintain a monthly log of gallons of paint used each month. Monthly usage records must be maintained on site for a period of five (5) years and made available to representatives of this department upon request. For reporting and compliance demonstration purposes, emission amounts shall be divided as follows amongst the five emission point vents.

Authority for Requirement: Polk County Air Quality Construction Permit #1007.

### **Periodic Monitoring Requirements**

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

Emission Point (03-03) 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

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

**Facility Maintained 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.

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: 03-04, 03-05, 03-20, 03-35**

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**Applicable Requirements**

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
03-04	03-04	Building 3 Paint Dip Tanks, Stack#1	Paint	0.03 tons per hour
03-05	03-04	Building 3 Paint Dip Tanks, Stack#2	Paint	0.03 tons per hour
03-20	03-04	Building 3 Paint Dip Tanks, Black	Paint	0.03 tons per hour
03-35	03-04	Building 3 Paint Dip Tanks, Pit	Paint	0.03 tons per hour

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

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

Pollutant: Opacity

Emission Limit(s): <20% opacity

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

Pollutant: PM

Emission Limit(s): 0.01 gr./dscf

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

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**Emission Point ID Number: 03-06, 03-07, 04-01, 04-02**

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**Applicable Requirements**

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
03-06	03-06	Paint Curing Oven – Building 3 South Entrance	Natural Gas	3.0 MM Btu/hr
03-07	03-06	Paint Curing Oven – Building 3	Natural Gas	3.0 MM Btu/hr
04-01	03-06	Paint Curing Oven – Building 3 North Exit	Natural Gas	3.0 MM Btu/hr
04-02	03-06	Paint Curing Oven – Building 3	Natural Gas	3.0 MM Btu/hr

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

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

Pollutant: Opacity

Emission Limit(s): <20% Opacity

Authority for Requirement: Polk County Air Quality Construction Permit #1085

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.10 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1085

Pollutant: PM

Emission Limit(s): 0.6 lb./MMBtu

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

Pollutant: SO<sub>2</sub>

Emission Limit(s): 0.01 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1085

Pollutant: NO<sub>x</sub>

Emission Limit(s): 1.29 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1085

Pollutant: VOC

Emission Limit(s): 0.07 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1085

Pollutant: CO

Emission Limit(s): 1.08 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1085

**Periodic Monitoring Requirements**

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

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

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

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: 03-09**

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**Applicable Requirements**

Emission Unit vented through this Emission Point: 03-08  
Emission Unit Description: Caustic Strip Tank  
Raw Material/Fuel: Acid Wash  
Rated Capacity: 2,870 gallons

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

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

No Applicable Emission Limit Requirements.

**Periodic Monitoring Requirements**

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

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

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

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: 03-10**

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**Applicable Requirements**

Emission Unit vented through this Emission Point: 03-10

Emission Unit Description: 6308 Forge Furnace (Box)

Raw Material/Fuel: Natural Gas

Rated Capacity: 1500 cubic ft. of natural gas per hour

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

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

Pollutant: Opacity

Emission Limit(s): No Visible Emissions

Authority for Requirement: Polk County Air Quality Construction Permit # 0904

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.0788 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit # 0904

Pollutant: PM

Emission Limit(s): 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

Pollutant: SO<sub>2</sub>

Emission Limit(s): 500 parts per million by volume, 0.0039 tons per year

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

Polk County Air Quality Construction Permit #0904

Pollutant: NO<sub>x</sub>

Emission Limit(s): 0.6570 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit # 0904

Pollutant: VOC

Emission Limit(s): 0.347 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit # 0904

Pollutant: CO

Emission Limit(s): 0.138 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit # 0904

**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 #0904

**Periodic Monitoring Requirements**

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

Emission Point (03-10) 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

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

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

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: 03-11**

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**Applicable Requirements**

Emission Unit vented through this Emission Point: 03-11  
Emission Unit Description: 6391 Forge Furnace (Slot)  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 900 cubic ft. of natural gas per hour

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

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

Pollutant: Opacity  
Emission Limit(s): No Visible Emissions  
Authority for Requirement: Polk County Air Quality Construction Permit # 0905

Pollutant: PM<sub>10</sub>  
Emission Limit(s): 0.0473 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit # 0905

Pollutant: PM  
Emission Limit(s): 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

Pollutant: SO<sub>2</sub>  
Emission Limit(s): 500 parts per million by volume, 0.0039 tons per year  
Authority for Requirement: 567 IAC 23.3(3)"e"  
Polk County Air Quality Construction Permit #0905

Pollutant: NO<sub>x</sub>  
Emission Limit(s): 0.3942 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit # 0905

Pollutant: VOC  
Emission Limit(s): 0.0208 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit # 0905

Pollutant: CO  
Emission Limit(s): 0.0828 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit # 0905

**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 #0905

**Periodic Monitoring Requirements**

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

Emission Point (03-11) 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

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

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

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: 03-21, 03-22, 03-23, 03-24, 03-25**

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**Associated Equipment**

Emissions Control Equipment ID Number: CE03-21

Emissions Control Equipment Description: Dry Filters

**Applicable Requirements**

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
03-21	03-21	Spray Paint Booth – North #1, Building 3	Paint	1.064 gallons/minute
03-22	03-21	Spray Paint Booth – North #2, Building 3	Paint	1.064 gallons/minute
03-24	03-21	Spray Paint Booth – South #1, Building 3	Paint	1.064 gallons/minute
03-25	03-21	Spray Paint Booth – South #2, Building 3	Paint	1.064 gallons/minute
03-22	03-22	Air Make Up Unit	Natural Gas	5.0 MM BTU/ Hr
03-21	03-23	Air Make Up Unit	Natural Gas	5.0 MM BTU/ Hr
03-24	03-24	Air Make Up Unit	Natural Gas	1.65 MM BTU/ Hr
03-25	03-25	Air Make Up Unit	Natural Gas	2.6 MM BTU/ Hr

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

Pollutant: Opacity

Emission Limit(s): &lt;20% Opacity

Authority for Requirement: Polk County Air Quality Construction Permit #1654

Pollutant: PM<sub>10</sub>

Emission Limit(s): 1.145 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1650, #1651, #1652, #1653 and #1654

Pollutant: PM

Emission Limit(s): 0.01 gr./dscf

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

Pollutant: SO<sub>2</sub>

Emission Limit(s): 500 parts per million by volume, 0.037 tons per year

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

Polk County Air Quality Construction Permit #1650, #1651, #1652 and #1653

Pollutant: NO<sub>x</sub>

Emission Limit(s): 6.116 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1650, #1651, #1652 and #1653

Pollutant: VOC

Emission Limit(s): 46.81 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1650, #1651, #1652, #1653 and #1654

Pollutant: CO

Emission Limit(s): 4.262 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1650, #1651, #1652 and #1653

Pollutant: HAP

Emission Limit(s): 1.46 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1654

**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 shall be limited to (26,570) gallons per 12 month period rolled and totaled monthly. Paints used in painting/surface coating operations shall be less than or equal to 3.50 lbs Volatile Organic Compounds per gallon as stated on manufactures material safety data sheets (MSDS).

**Control equipment parameters:**

Check filters and replace as necessary.

**Work practice standards:**

Replacement filters shall be maintained on sited and available at all time. Filters must be in place when the exhaust fan is operating.

**Reporting & Record keeping:**

The permittee shall maintain a monthly log of gallons of paint used each month. Monthly usage records must be maintained on site for a period of five (5) years and made available to representatives of this department upon request. For reporting and compliance demonstration purposes, emission amounts shall be divided as follows amongst the five emission point vents.

			Tons/yr	Tons/yr	Tons/yr
EP	acfm @ 70degrees F	Percent Conc. Allocation	PM/PM10	VOC	HAP's
03-21	39500	0.24	0.163	11.16	0.35
03-22	39500	0.24	0.163	11.16	0.35
03-24	42000	0.26	0.177	12.09	0.38
03-25	42000	0.26	0.177	12.09	0.38
<b>Totals</b>	<b>163,000</b>	<b>1.00</b>	<b>0.68</b>	<b>46.5</b>	<b>1.46</b>

These are calculated exhaust percentages based on fans' dscfm rate. These are not emission limits.

Authority for Requirement: Polk County Air Quality Construction Permit #0394 modified

**Periodic Monitoring Requirements**

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

Emission Point 03-21, 03-22, 03-24 and 03-25 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**

**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.

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: 03-28**

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**Applicable Requirements**

Emission Unit vented through this Emission Point: 03-28

Emission Unit Description: Washer – Heat Stage 3

Raw Material/Fuel: Natural Gas

Rated Capacity: 3.682 MM Btu/hr Natural Gas

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

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

Pollutant: Opacity

Emission Limit(s): <20% Opacity

Authority for Requirement: Polk County Air Quality Construction Permit #1608

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.121 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1608

Pollutant: PM

Emission Limit(s): 0.6 lb./MMBtu

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

Pollutant: SO<sub>2</sub>

Emission Limit(s): 500 parts per million by volume, 0.01 tons per year

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

Polk County Air Quality Construction Permit #1608

Pollutant: NO<sub>x</sub>

Emission Limit(s): 1.588 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1608

Pollutant: VOC

Emission Limit(s): 0.087 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1608

Pollutant: CO

Emission Limit(s): 1.334 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1608

Pollutant: HAP - Hexane

Emission Limit(s): 0.029 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1608

**Periodic Monitoring Requirements**

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

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

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

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: 03-29**

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**Applicable Requirements**

Emission Unit vented through this Emission Point: 03-29  
Emission Unit Description: Washer – Heat Stage 2  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 3.682 MM Btu/hr Natural Gas

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

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

Pollutant: Opacity  
Emission Limit(s): <20% Opacity  
Authority for Requirement: Polk County Air Quality Construction Permit #1608

Pollutant: PM<sub>10</sub>  
Emission Limit(s): 0.121 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #1608

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

Pollutant: SO<sub>2</sub>  
Emission Limit(s): 500 parts per million by volume, 0.01 tons per year  
Authority for Requirement: 567 IAC 23.3(3)"e"  
Polk County Air Quality Construction Permit #1608

Pollutant: NO<sub>x</sub>  
Emission Limit(s): 1.588 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #1608

Pollutant: VOC  
Emission Limit(s): 0.087 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #1608

Pollutant: CO  
Emission Limit(s): 1.334 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #1608

Pollutant: HAP - Hexane  
Emission Limit(s): 0.029 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #1608

**Periodic Monitoring Requirements**

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

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

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

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: 03-30**

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**Applicable Requirements**

Emission Unit vented through this Emission Point: 03-30  
Emission Unit Description: Washer – Heat Stage 1B  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 3.682 MM Btu/hr Natural Gas

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

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

Pollutant: Opacity  
Emission Limit(s): <20% Opacity  
Authority for Requirement: Polk County Air Quality Construction Permit #1608

Pollutant: PM<sub>10</sub>  
Emission Limit(s): 0.121 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #1608

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

Pollutant: SO<sub>2</sub>  
Emission Limit(s): 500 parts per million by volume, 0.01 tons per year  
Authority for Requirement: 567 IAC 23.3(3)"e"  
Polk County Air Quality Construction Permit #1608

Pollutant: NO<sub>x</sub>  
Emission Limit(s): 1.588 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #1608

Pollutant: VOC  
Emission Limit(s): 0.087 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #1608

Pollutant: CO  
Emission Limit(s): 1.334 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #1608

Pollutant: HAP - Hexane  
Emission Limit(s): 0.029 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #1608

**Periodic Monitoring Requirements**

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

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

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

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: 03-31**

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**Applicable Requirements**

Emission Unit vented through this Emission Point: 03-31  
Emission Unit Description: Washer – Heat Stage 1A  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 3.682 MM Btu/hr Natural Gas

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

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

Pollutant: Opacity  
Emission Limit(s): <20% Opacity  
Authority for Requirement: Polk County Air Quality Construction Permit #1608

Pollutant: PM<sub>10</sub>  
Emission Limit(s): 0.121 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #1608

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

Pollutant: SO<sub>2</sub>  
Emission Limit(s): 500 parts per million by volume, 0.01 tons per year  
Authority for Requirement: 567 IAC 23.3(3)"e"  
Polk County Air Quality Construction Permit #1608

Pollutant: NO<sub>x</sub>  
Emission Limit(s): 1.588 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #1608

Pollutant: VOC  
Emission Limit(s): 0.087 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #1608

Pollutant: CO  
Emission Limit(s): 1.334 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #1608

Pollutant: HAP - Hexane  
Emission Limit(s): 0.029 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #1608

**Periodic Monitoring Requirements**

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

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

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

Authority for Requirement: 567 IAC 22.108(3)"b"

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

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**Applicable Requirements**

Emission Unit vented through this Emission Point: 11-09  
Emission Unit Description: Rotomolding oven chamber, pre-cool and cooling station  
Raw Material/Fuel: Resin/Natural Gas  
Rated Capacity: 700 lb./Hr, 4.5 MM Btu/hr Natural Gas

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

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

Pollutant: Opacity

Emission Limit(s): <20% Opacity

Authority for Requirement: Polk County Air Quality Construction Permit #1602

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.34 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1602

Pollutant: PM

Emission Limit(s): 0.6 lb./MMBtu, 5.63 tons per year

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

Polk County Air Quality Construction Permit #1602

Pollutant: SO<sub>2</sub>

Emission Limit(s): 500 parts per million by volume, 0.01 tons per year

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

Polk County Air Quality Construction Permit #1602

Pollutant: NO<sub>x</sub>

Emission Limit(s): 2.63 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1602

Pollutant: VOC

Emission Limit(s): 0.39 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1602

Pollutant: CO

Emission Limit(s): 1.58 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1608

Pollutant: HAP - Cadmium

Emission Limit(s): 0.20 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1602

Pollutant: HAP - Antimony  
Emission Limit(s): 0.20 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #1602

Pollutant: HAP - Chromium  
Emission Limit(s): 0.20 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #1602

**Operational Limits & Requirements**

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

Process throughput:

700 lb. Resin/hr

Reporting & Record keeping:

For reporting and compliance demonstration purposes, emission amounts shall be divided as follows amongst the three emission point vents.

EP 11-09: (100% PM) (39.6% PM<sub>10</sub>, SO<sub>x</sub>, NO<sub>x</sub>, VOC, CO, Cadmium, Antimony, Chromium)

EP 11-10: (30.2% PM<sub>10</sub>, SO<sub>x</sub>, NO<sub>x</sub>, VOC, CO, Cadmium, Antimony, Chromium)

EP 11-11: (30.2% PM<sub>10</sub>, SO<sub>x</sub>, NO<sub>x</sub>, VOC, CO, Cadmium, Antimony, Chromium)

These are calculated exhaust percentages based on fans' scfm rate. These are not emission limits.

Authority for Requirement: Polk County Air Quality Construction Permit #1602

**Periodic Monitoring Requirements**

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

Emission Point 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, 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**

John Deere Des Moines Works  
October 6, 2004

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

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: 11-12**

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**Applicable Requirements**

Emission Unit vented through this Emission Point: 11-12

Emission Unit Description: Flame cut vent

Raw Material/Fuel: Propylene

Rated Capacity: 0.004566 million cubic feet per hour

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

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

Pollutant: Opacity

Emission Limit(s): No Visible Emissions

Authority for Requirement: Polk County Air Quality Construction #0833

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.01 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #0833

Pollutant: PM

Emission Limit(s): 0.6 lb./MMBtu

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

Pollutant: SO<sub>2</sub>

Emission Limit(s): 500 parts per million by volume, 0.01 tons per year

Authority for Requirement: 567 IAC 23.3(3)e.,  
Polk County Air Quality Construction Permit #0833

Pollutant: NO<sub>x</sub>

Emission Limit(s): 0.01 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #0833

Pollutant: VOC

Emission Limit(s): 0.01 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #0833

Pollutant: CO

Emission Limit(s): 0.01 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #0833

**Operational Limits & Requirements**

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

Process throughput: Propylene gas use shall be limited to 40,000 cubic feet per 12 month period rolled monthly.

Reporting & Record keeping: A monthly log of use shall be maintained on site.

Authority for Requirement: Polk County Air Quality Construction Permit #0833

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic 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 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

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

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

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: 12-05**

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**Associated Equipment**

Emissions Control Equipment ID Number: CE12-05

Emissions Control Equipment Description: Pleated Kraft Filter Arrestor Pads

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**Applicable Requirements**

Emission Unit vented through this Emission Point: 12-05

Emission Unit Description: Spray Paint Booth

Raw Material/Fuel: Paint

Rated Capacity: 5.0 lb./Hr

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

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

Pollutant: Opacity

Emission Limit(s): <20% opacity

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

Pollutant: PM

Emission Limit(s): 0.01 gr./dscf

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

**Operational Limits & Requirements**

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

**Control equipment parameters:**

Check filters and replace as necessary.

**Work practice standards:**

Replacement filters shall be maintained on sited and available at all time. Filters must be in place when the exhaust fan is operating.

Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V, Article VI, Section 5-17.1

**Periodic Monitoring Requirements**

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

Emission Point 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**

**Facility Maintained 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.

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: 12-06**

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**Applicable Requirements**

Emission Unit vented through this Emission Point: 12-06  
Emission Unit Description: Solvent Cleaning – Parts Washing  
Raw Material/Fuel: Solvent  
Rated Capacity: 1.0 tons solvent per year

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

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

Pollutant: Opacity  
Emission Limit(s): No Visible Emissions  
Authority for Requirement: Polk County Air Quality Construction #0834

Pollutant: VOC  
Emission Limit(s): 1.0 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #0834

**Operational Limits & Requirements**

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

Process throughput: Solvent use shall be limited to 1.0 ton per 12 month period rolled monthly.

Reporting & Record keeping: Solvent use shall be logged monthly.

Authority for Requirement: Polk County Air Quality Construction Permit #0834

**Periodic Monitoring Requirements**

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

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

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

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: 16-01**

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**Applicable Requirements**

Emission Unit vented through this Emission Point: 16-01  
Emission Unit Description: Waukesha Generator F817 G  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 409,745 Btu./Hr

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

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

Pollutant: Opacity

Emission Limit(s): <20% Opacity

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

Pollutant: PM

Emission Limit(s): 0.6 lb./MMBtu

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

Pollutant: SO<sub>2</sub>

Emission Limit(s): 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

**Periodic Monitoring Requirements**

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

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

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

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: 18-18**

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**Applicable Requirements**

Emission Unit vented through this Emission Point: 18-01-Oven

Emission Unit Description: Paint Bake Oven

Raw Material/Fuel: Natural Gas

Rated Capacity: 4.0 MM Btu./Hr

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

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

Pollutant: Opacity

Emission Limit(s): No Visible Emissions

Authority for Requirement: Polk County Air Quality Construction #1531

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.052 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1531

Pollutant: PM

Emission Limit(s): 0.6 lb./MMBtu

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

Pollutant: SO<sub>2</sub>

Emission Limit(s): 500 parts per million by volume, 0.01 tons per year

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

Polk County Air Quality Construction Permit #1531

Pollutant: NO<sub>x</sub>

Emission Limit(s): 1.72 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1531

Pollutant: VOC

Emission Limit(s): 0.094 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1531

Pollutant: CO

Emission Limit(s): 1.44 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1531

**Periodic Monitoring Requirements**

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

Emission Point 18-05, 18-06, 18-07 and 18-08 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

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

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

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: 18-01, 18-02, 18-03, 18-04, 18-05, 18-06, 18-07, 18-08, 18-09, 18-10, 18-11, 18-12**

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**Associated Equipment**

Emissions Control Equipment ID Number: CE18-01  
Emissions Control Equipment Description: Dry Filters

**Applicable Requirements**

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
18-01	18-01-PB	Spray Paint Booth Exhaust #1	Paint	0.5 gallons per minute
18-02	18-01-PB	Spray Paint Booth Exhaust #2	Paint	0.5 gallons per minute
18-03	18-01-PB	Spray Paint Booth Exhaust #3	Paint	0.5 gallons per minute
18-04	18-01-PB	Spray Paint Booth Exhaust #4	Paint	0.5 gallons per minute
18-05	18-01-PB	Spray Paint Booth Exhaust #5	Paint	0.5 gallons per minute
18-06	18-01-PB	Spray Paint Booth Exhaust #6	Paint	0.5 gallons per minute
18-07	18-01-PB	Spray Paint Booth Exhaust #7	Paint	0.5 gallons per minute
18-08	18-01-PB	Spray Paint Booth Exhaust #8	Paint	0.5 gallons per minute
18-09	18-01-PB	Spray Paint Booth Exhaust #9	Paint	0.5 gallons per minute
18-10	18-01-PB	Spray Paint Booth Exhaust #10	Paint	0.5 gallons per minute
18-11	18-01-PB	Spray Paint Booth Exhaust #11	Paint	0.5 gallons per minute
18-12	18-01-PB	Spray Paint Booth Exhaust #12	Paint	0.5 gallons per minute

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

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

Pollutant: Opacity

Emission Limit(s): No Visible Emissions

Authority for Requirement: Polk County Air Quality Construction #1530

Pollutant: PM<sub>10</sub>

Emission Limit(s): 14.04 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1530

Pollutant: VOC

Emission Limit(s): 38.5 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1530

### **Operational Limits & Requirements**

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

Hours of operation:

Hours of operation for each section of emission unit (18-01-PB) on the painting/surface coating operations shall be limited to 4500 hours per 12 month period rolled and totaled monthly.

Work practice standards:

Replacement filters shall be maintained on sited and available at all time. Filters must be in place when the exhaust fan is operating.

Reporting & Record keeping:

The permittee shall maintain a monthly log of gallons of paint used and hours of operation each month.

Process throughput:

Combined total usage of all paint, primer, thinner, reducers, hardeners, varnishes or any other related products shall be limited to eleven thousand (11,000) gallons per 12 month period rolled and totaled monthly. Paints used in painting/surface coating operations shall be less than or equal to 7.00 lbs Volatile Organic Compounds per gallon as stated on manufactures material safety data sheets (MSDS).

Authority for Requirement: Polk County Air Quality Construction Permit #1530

### **Periodic Monitoring Requirements**

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

Emission Point 18-01, 18-02, 18-03, 18-04, 18-05, 18-06, 18-07, 18-08, 18-09, 18-10, 18-11 and 18-12 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

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

**Facility Maintained 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.

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: 18-13, 18-14, 18-15, 18-16**

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**Associated Equipment**

Emissions Control Equipment ID Number: CE18-12  
Emissions Control Equipment Description: Dry Filters

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**Applicable Requirements**

Emission Unit vented through this Emission Point: 18-12  
Emission Unit Description: Touch Up Paint Booth & Make-Up Heater  
Raw Material/Fuel: Paint & Natural Gas  
Rated Capacity: 0.148 gallons per hour, 8.8 MM Btu/Hr

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

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

Pollutant: Opacity  
Emission Limit(s): No Visible Emissions  
Authority for Requirement: Polk County Air Quality Construction #0538

Pollutant: PM<sub>10</sub>  
Emission Limit(s): 4.46 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #0538

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

Pollutant: NO<sub>x</sub>  
Emission Limit(s): 3.5 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #0538

Pollutant: VOC  
Emission Limit(s): 5.0 tons per year  
Authority for Requirement: Polk County Air Quality Construction Permit #0538

**Operational Limits & Requirements**

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

Process throughput:

Paint usage shall be limited to 1300 gallons per 12 month period rolled monthly.

Work practice standards:

Replacement filters shall be maintained on site at all times.

Reporting & Record keeping:

Paint usage logs shall be maintained on site and made available to representatives of this department upon request.

Authority for Requirement: Polk County Air Quality Construction Permit #0538

**Periodic Monitoring Requirements**

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

Emission Point 18-13, 18-14, 18-15 and 18-16 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

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

**Facility Maintained 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.

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: CT-001**

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**Applicable Requirements**

Emission Unit vented through this Emission Point: CT-001

Emission Unit Description: Building 1 Cooling Tower

Raw Material/Fuel: Water

Rated Capacity: Not Applicable

**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.

**Periodic Monitoring Requirements**

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

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

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

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: 02-10, 02-11, 02-12, 02-13, 02-14, 02-54, 02R-01, 14-01, 18-19, 18X-01, 25-01, 25-02, 28-01, 28X-01, 28X-02, 28X-03, 28X-04**

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**Associated Equipment**

Associated Emission Unit ID Numbers: 02-10, 02-11, 02-12, 02-13, 02-14, 02-54, 02R-01, 14-01, 18-19, 18X-01, 25-01, 25-02, 28-01, 28X-01, 28X-02, 28X-03, 28X-04

**Applicable Requirements**

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
02-10	02-10	Engine Exhaust (2 pickups)	Diesel Fuel	400 horsepower
02-11	02-11	Engine Exhaust (2 pickups)	Diesel Fuel	400 horsepower
02-12	02-12	Engine Exhaust (1 pickup)	Diesel Fuel	400 horsepower
02-13	02-13	Engine Exhaust (1 pickup)	Diesel Fuel	400 horsepower
02-14	02-14	Engine Exhaust (1 pickup)	Diesel Fuel	400 horsepower
02-54	02-54	High Cycle Sprayer Engine Exhaust (2 pickups)	Diesel Fuel	400 horsepower
02R-01	02R-01	Engine Exhaust (1 pickup)	Diesel Fuel	400 horsepower
14-01	14-01	Engine Exhaust (6 Pickups)	Diesel Fuel	400 horsepower
18-19	18-19	Engine Exhaust (1 pickup)	Diesel Fuel	400 horsepower
18X-01	18X-01	Engine Exhaust (5 pickup)	Diesel Fuel	400 horsepower
25-01	25-01	Engine Exhaust (3 pickup)	Diesel Fuel	400 horsepower
25-02	25-02	Engine Exhaust (3 pickup)	Diesel Fuel	400 horsepower
28-01	28-01	Engine Exhaust (1 pickup)	Diesel Fuel	400 horsepower
28X-01	28X-01	Engine Exhaust (1 pickup)	Diesel Fuel	400 horsepower
28X-02	28X-02	Engine Exhaust (1 pickup)	Diesel Fuel	400 horsepower
28X-03	28X-03	Engine Exhaust (1 pickup)	Diesel Fuel	400 horsepower
28X-04	28X-04	Engine Exhaust (1 pickup)	Diesel Fuel	400 horsepower

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

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

Pollutant: Opacity

Emission Limit(s): <20% Opacity

Authority for Requirement: Polk County Air Quality Construction #1606

Pollutant: PM<sub>10</sub>

Emission Limit(s): 3.28 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1606

Pollutant: SO<sub>2</sub>

Emission Limit(s): 0.5 lbs/MM Btu, 0.51 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1606, Polk County Board of Health Rules and Regulations: Chapter V, Article IX, Section 5-27(2)

Pollutant: NO<sub>x</sub>

Emission Limit(s): 21.27 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1606

Pollutant: VOC

Emission Limit(s): 1.69 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1606

Pollutant: CO

Emission Limit(s): 3.71 tons per year

Authority for Requirement: Polk County Air Quality Construction Permit #1606

### **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 testing stations shall be limited to one hundred fifty thousand (150,000) gallons diesel fuel per twelve (12) month period rolled and totaled monthly.

Maximum capacity shall not exceed four hundred (400) horsepower (hp).

Work practice standards:

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.

Reporting & Record keeping:

The facility shall monitor the percent sulfur by weight in the fuel oil as delivered. The documentation may be vendor supplied or facility generated. Said logs shall be made available to representatives of this department upon request and maintained on-site for five (5) years.

Authority for Requirement: Polk County Air Quality Construction Permit #1606,  
567 IAC 23.3(3) "b"(1)

**Periodic Monitoring Requirements**

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

Emission Point 02-10, 02-11, 02-12, 02-13, 02-14, 02-54, 02R-01, 14-01, 18-19, 18X-01, 25-01, 25-02, 28-01, 28X-01, 28X-02, 28X-03 and 28X-04 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**

Authority for Requirement: 567 IAC 22.108(3)"b"

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**Emission Point ID Number: F01-01, F01-02, F01-03, F01-04, F01-05, F01-06, F01-07**

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**Associated Equipment**

Associated Emission Unit ID Numbers: F01-01, F01-02, F01-03, F01-04, F01-05, F01-06, F01-07

**Applicable Requirements**

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
F01-01	F01-01	Plant Wide Janitorial Fugitive	Cleaners	Not Applicable
F01-02	F01-02	Plant Wide Janitorial Fugitive	Adhesives, Lubricants and Sealers	Not Applicable
F01-03	F01-03	Plant Wide Fugitives, HAP Fugitives	Cleaners, Fiberseal, Threadlocker, Solvent Cement, PVC Prmer, Penetrating Oils and Aerosols	Not Applicable
F01-04	F01-04	Plant Wide Fugitives, HAP Fugitives	Cleaners, Fiberseal, Threadlocker, Solvent Cement, PVC Prmer, Penetrating Oils and Aerosols	Not Applicable
F01-05	F01-05	Plant Wide Fugitives, HAP Fugitives	Cleaners, Fiberseal, Threadlocker, Solvent Cement, PVC Prmer, Penetrating Oils and Aerosols	Not Applicable
F01-06	F01-06	Plant Wide Fugitives, HAP Fugitives	Cleaners, Fiberseal, Threadlocker, Solvent Cement, PVC Prmer, Penetrating Oils and Aerosols	Not Applicable
F01-07	F01-07	Plant Wide Fugitives, HAP Fugitives	Cleaners, Fiberseal, Threadlocker, Solvent Cement, PVC Prmer, Penetrating Oils and Aerosols	Not Applicable

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

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

None applicable at this time.

**Periodic Monitoring Requirements**

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

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

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

Authority for Requirement: 567 IAC 22.108(3)"b"

## **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 must be 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"*

### **G2. Permit Expiration**

1. Except as provided in 567 IAC 22.104, the expiration of this permit terminates the permittee's right to operate unless a timely and complete application has been submitted for renewal. Any testing required for renewal shall be completed before the application is submitted. *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 present or mail the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, 7900 Hickman Rd, Suite #1, Urbandale, Iowa 50322, four or more copies of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. 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)"e"*

#### **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. 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. Oral 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 oral 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 visible emission standard by more than 10 percent opacity. The oral report may be made 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 oral 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 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 must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. *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.
  - e. The changes comply with all applicable requirements.
  - f. For such a 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 will 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. Aggregate Insignificant Emissions. The permittee shall not construct, establish or operate any new insignificant activities or modify any existing insignificant activities in such a way that the emissions from these activities no longer meet the criteria of aggregate insignificant emissions. If the aggregate insignificant emissions are expected to be exceeded, the permittee shall submit the appropriate permit modification and receive approval prior to making any change. *567 IAC 22.103.(2)*

6. 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 is required to do 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 Permit Modification.**

a. Minor permit modification procedures may be used only for those permit modifications that do any of the following:

i. Do not violate any applicable requirements

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 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.

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 a 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, existing permit term terms and conditions it seeks to modify may subject the facility to enforcement action.

3. Significant 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, and those requirements that apply to Title V issuance and renewal. *567 IAC 22.111-567 IAC 22.113* 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 22.105(1)"a"(4)*

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

Unless exempted under 567 IAC 22.1(2) and Chapter V, Article X, 5-33, the permittee must not construct, install, reconstruct, or alter any equipment, control equipment or anaerobic lagoon without first obtaining a construction permit, conditional permit, or permit pursuant to 567 IAC 22.8 & Polk County Chapter V, Article X, 5-28, or permits required pursuant to 567 IAC 22.4 and 567 IAC 22.5. Such permits shall be obtained prior to the initiation of construction, installation or alteration of any portion of the stationary source. *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 conducting any renovation or demolition activities at the facility. *567 IAC 23.1(3)"a", and 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*

### **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 thereunder. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners or operators of the unit or the designated representative of the owners or operators is prohibited. Exceedences of applicable emission rates are prohibited. 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 June 25, 1993.

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 June 25, 1993, 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)*

### **G25. Permit Shield**

Compliance with the conditions of this permit shall be deemed compliance with the applicable requirements included in this permit, as of the date of permit issuance.

This permit shield shall not alter or affect the following:

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

2. 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;

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

4. 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 to determine transferability of the permit. *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 an applicable requirement. For the department to consider test results a valid demonstration of compliance with applicable rules or a permit condition, such notice shall be given. 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. Unless specifically waived by the department's stack test contact, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. The department may accept a testing protocol in lieu of a pretest meeting. 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  
Urbandale, IA 50322  
(515) 242-6001

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  
EPA Region 7  
Air Permits and Compliance Branch  
901 North 5<sup>th</sup> Street  
Kansas City, KS 66101  
(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  
Urbandale, IA 50322  
(515) 242-5100

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 14<sup>th</sup> Street  
Des Moines, IA 50313-1296  
(515) 286-3351