

Iowa Department of Natural Resources

Draft Title V Operating Permit Fact Sheet

This document has been prepared to fulfill the public participation requirements of 40 CFR Part 70 and 567 Iowa Administrative Code (IAC) 22.107(6). 40 CFR Part 70 contains operating permit regulations pursuant to Title V of the Clean Air Act.

The Iowa Department of Natural Resources (DNR) finds that:

1. John Deere Des Moines Works, located at 825 SW Irvinedale Drive, Ankeny, Iowa 50023, has applied to renew their Title V Operating Permit. The designated responsible official of this facility is Andrew W. Hansen, Factory Manager.
2. John Deere Des Moines Works is a Farm Machinery and Equipment Manufacturer (SIC 3523) (NAICS 333111). This facility consists of ninety-three (93) significant emission units with potential emissions of:

Pollutant	Abbreviation	Potential Emissions (Tons per Year)
Particulate Matter ($\leq 10 \mu\text{m}$)	PM ₁₀	58.57
Particulate Matter	PM	58.59
Sulfur Dioxide	SO ₂	6.01
Nitrogen Oxides	NO _x	183.63
Volatile Organic Compounds	VOC	238.53
Carbon Monoxide	CO	80.17
Hazardous Air Pollutants ⁽¹⁾	HAP	9.4 (single HAP) 24.4 (combined HAP)
Greenhouse Gas	CO _{2e}	94,000

⁽¹⁾ May include the following: Chromium compounds, Cadmium compounds, Antimony compounds, Nickel compounds, Cobalt compounds, Manganese compounds, Naphthalene, Xylene (mixed isomers), n-Hexane, Ethylbenzene, Toluene, Cumene, Methanol, Methyl Isobutyl Ketone, O-Cresol, Benzene, Styrene, Acrolein, Acetaldehyde, and Formaldehyde.

3. John Deere Des Moines Works submitted a Title V Operating Permit renewal application on March 25, 2009 and any additional information describing the facility on June 4, 2009, June 23, 2009, July 28, 2009, August 16, 2010, September 8, 2010, January 11, 2011, September 9, 2011, September 29, 2011, February 9, 2012, July 2, 2013, and December 27, 2013. Based on the information provided in these documents, DNR has made an initial determination that the facility meets all the applicable criteria for the issuance of an operating permit specified in 567 IAC 22.107.
4. DNR has complied with the procedures set forth in 567 IAC 22.107, including those regarding public notice, opportunity for public hearing, and notification of EPA and surrounding state and local air pollution programs.

DNR procedures for reaching a final decision on the draft permit:

1. The public comment period for the draft permit will run from February 17, 2014 through March 19, 2014. The beginning date of this public comment period also serves as the beginning of the U.S. Environmental Protection Agency's (EPA) 45-day review period, provided the EPA does not seek a separate review period. During this time, anyone may submit written comments on the permit. Mail signed comments to Jeff Gabby at the Polk County address shown below.
2. Written requests for a public hearing concerning the permit may also be submitted during the comment period. Any hearing request must state the person's interest in the subject matter, and the nature of the issues proposed to be raised at the hearing. DNR will hold a public hearing upon finding, on the basis of requests, a significant degree of relevant public interest in a draft permit. Mail hearing requests to Jeff Gabby at the Polk County address shown below.
3. DNR will keep a record of the issues raised during the public participation process, and will prepare written responses to all comments received. The comments and responses will be compiled into a responsiveness summary document. After the close of the public comment period, DNR will make a final decision on the renewal application. The responsiveness summary and the final permit will be available to the public upon request.

Jeffrey M. Gabby
Air Permit Engineer
Polk County Public Works Department
Air Quality Division
5885 NE 14th Street
Des Moines, Iowa 50313
Phone: (515) 286-3389
E-mail: jeffrey.gabby@polkcountyiowa.gov

DNR concludes that:

1. DNR has authority under 455B.133 Code of Iowa to promulgate rules contained in 567 IAC Chapters 20-35, including, but not limited to, rules containing emission limits, providing for compliance schedules, compliance determination methods and issuance of permits.
2. DNR has the authority to issue operating permits for air contaminant sources and to include conditions in such permits under 455B.134 Code of Iowa.
3. The emission limits included in this permit are authorized by 455B.133 Code of Iowa and 567 IAC Chapters 20-35.
4. DNR is required to comply with 567 IAC Chapter 22 in conjunction with issuing a Title V Operating Permit.
5. The issuance of this permit does not preclude the DNR or Polk County from pursuing enforcement action for any violation.

Applicant: John Deere Des Moines Works

EQ #: 92-6800

Facility File Number: 77-01-035

Reviewing Engineer: Jeff Gabby

A. Project Briefing:

John Deere Des Moines Works is located at 825 SW Irvinedale Drive, Ankeny Iowa. John Deere Des Moines Works is engaged in manufacturing farm machinery and equipment, for use in the preparation and maintenance of soil; planting and harvesting of crop; preparing crops for market on the farm; or for use in performing other farm operations and processes. This project requires a Part 70 Title V R1 Renewal Permit to operate the following significant emission units:

(EU 01-28/CE 01-28 / EP 01-28)(EU 02-01/ CE 02-01 /EP 02-01)(EU 02-02 / CE 02-02 / EP 02-02)(EU 02-10 / EP 02-P10)(EU 02-32 / EP 02-32, 02-37)(EU 02-35/EP 02-35)(EU 02-38/EP 02-38)(EU 02-39/EP 02-39)(EU 02-40/EP 02-40)(EU 02-44/ CE 02-44 / EP 02-44)(EU 02-47 / EP 02-60)(EU 02-51/ CE 02-51 / EP 02-51)(EU 02-52/CE 02-52 / EP 02-52)(EU 02-OX1, 03-OX1 / CE 03-OX / EP 03-OXf) (EU 02-OX2 / CE 02-OX / EP 02-OXf)(EU 03-02/EP 03-02)(EU 03-27/EP 03-27)(EU 03-30/EP 03-30)(EU 03-31/EP 03-31)(EU 11-08 / CE 11-08 / EP 11-08) (EU 11-09 / EP 11-09)(EU 11-10 / EP 11-09, 11-10, 11-11)(EU 11-12/EP 11-12)(EU 11-13 / EP 11-13, 11-14)(EU 11-15 / EP 11-15)(EU 16-01 / EP 16-01) (EU 18-01-OVEN / EP 18-18)(EU 18-17 / EP 18-17)(EU 26-01 / CE 26-01 / EP 26-01) (EU 26-02 / CE 26-02 / EP 26-02)(EU 40-01 / EP 40-01) (EU 2X-Gen / EP 2X-Gen) , (EU 10-Gen / EP 10-Gen) (EU 57-Gen / EP 57-Gen) (EU CT-02X / EP CT-02X) (EU CT-02 / EP CT-02) (EU F01-01; F01-02; F01-03 / EP JAN-FUG; PW-FUG; HAP-FUG) [(EU 02-G1 / CE 02/G1 / EP 02-G1) (EU 02-G2A, 02-G2B, 02-G2C, 02-G2D / CE 02-G2 / EP 02-G2) (EU 02-G3A, 02-G3B, 02-G3C / CE 02-G3 / EP 02-G3) (EU 02-G4 / CE 02-G4 / EP 02-G4) (EU 02-G5 / CE 02-G5 / EP 02-G5) (EU 02-G6 / CE 02-G6 / EP 02-G6) (EU 02-G7 / CE 02-G7 / EP 02-G7)] (EU 18-1801 / EP Engine Exhausts) [(EU 01-LC1, 01-LC2, 01-LC3, 01-LC4, 01-LC5, 01-LC6, 02-LC1, 02-LC2, 02-LC3, 02-LC4, 02-LC5, 02-LC6, 02-LC7, 02-LC10, 02-LC11, 03-LC1, 03-LC2, 03-LC3, 03-LC4 / EP LCf) (EU 26-LC1 / CE 26-LC1 / EP LCf) (EU 26-LC5 / CE 26-LC5 / EP LCf)], Wet Paint Spraying Operations, consisting of (EU 02-30, 02-31, 03-03, 03-04, 03-21, 03-22, 03-23, 03-24, 03-25, 03-26, 12-05, 18-01-PB, 18-13, 18-14, 18-15, 18-12, 18-16) (EU Weld01 / EP Weld01f) and (EU T-59 / EP T-59).

Conditions transfer into the Title V Operating Permit from the following Polk County

Air Quality Construction Permits: (PC# 0432 for EU 01-28/CE 01-28 / EP 01-28)(PC# 0890 Modified for EU 02-01/ CE 02-01 / EP 02-01)(PC# 2528 for EU 02-02 / CE 02-02 / EP 02-02) (PC# 2273 for EU 02-10 / EP 02-P10)(PC# 1827 Modified for EU 02-32 / EP 02-32, 02-37)(PC#2032 Modified for EP 02-35/EU 02-35) (PC # 2518 Modified for EP02-38/EU 02-38)(PC#2516 for EU 02-39 / EP 02-39) (PC# 0902 for EU 02-40/ EP 02-40)(PC# 0903 Modified #2 for EU 02-44/ CE 02-44 / EP 02-44) (1740 Modified for EU 02-47 / EP 02-60)(0807 Modified for EU 02-51/ CE 02-51 / EP 02-51)(0808 for EU 02-52/CE 02-52 / EP 02-52) (2103 Modified for [(EU 02-OX1, 03-OX1 / CE 03-OX / EP 03-OXf) (EU 02-OX2 / CE 02-OX / EP 02-OXf)]) (2517 for EU 3-02 / EP 3-02)(1825 Modified for EU 03-27/EP 03-27) (1608 Modified #2 for EU 03-30/EP 03-30 and EU 03-31/EP 03-31)

(2088 for EU 11-08 / CE 11-08 / EP 11-08) (1830 Modified for EU 11-09 / EP 11-09) (1829 for EU 11-10 / EP 11-09, 11-10, & 11-11)(0833 Modified for EU 11-12/EP 11-12) (2334 for [(EU 11-13 / EP 11-13, 11-14)(EU 11-15 / EP 11-15)]) (1826 for EU 16-01 / EP 16-01)(1831 Modified for EU 18-01-OVEN / EP 18-18)(1531 Modified #2 for EU 18-17 / EP 18-17) (1816 for EU 26-01 / CE 26-01 / EP 26-01) (2123 for EU 26-02 / CE 26-02 / EP 26-02) (2526 for EU 40-01 / EP 40-01) [Exempt:(EU 2X-Gen / EP 2X-Gen) , (EU 10-Gen / EP 10-Gen) (EU 57-Gen / EP 57-Gen)] (2087 for EU CT-02X / EP CT-02X) (2527 for EU CT-02 / EP CT-02) (Exempt: EU F01-01; F01-02; F01-03 / EP JAN-FUG; PW-FUG; HAP-FUG) {2122 FOR [(EU 02-G1 / CE 02/G1 / EP 02-G1) (EU 02-G2A, 02-G2B, 02-G2C, 02-G2D / CE 02-G2 / EP 02-G2) (EU 02-G3A, 02-G3B, 02-G3C / CE 02-G3 / EP 02-G3) (EU 02-G4 / CE 02-G4 / EP 02-G4) (EU 02-G5 / CE 02-G5 / EP 02-G5) (EU 02-G6 / CE 02-G6 / EP 02-G6) (EU 02-G7 / CE 02-G7 / EP 02-G7)] } (1606 Modified #2 for EU 18-1801 / EP Engine Exhausts) {2069 Modified #5 for [(EU 01-LC1, 01-LC2, 01-LC3, 01-LC4, 01-LC5, 01-LC6, 02-LC1, 02-LC2, 02-LC3, 02-LC4, 02-LC5, 02-LC6, 02-LC7, 02-LC10, 02-LC11, 03-LC1, 03-LC2, 03-LC3, 03-LC4 / EP LCf) (EU 26-LC1 / CE 26-LC1 / EP LCf) (EU 26-LC5 / CE 26-LC5 / EP LCf)]} {2233 Modified #4 for Wet Paint Spraying Operations, consisting of (EU 02-30, 02-31, 03-03, 03-04, 03-21, 03-22, 03-23, 03-24, 03-25, 03-26, 12-05, 18-01-PB, 18-13, 18-14, 18-15, 18-12, and 18-16)} (2596 for EU Weld01 / EP Weld01f) (Exempt: (EU T-59 / EP T-59).

The following emission units are insignificant per 567IAC22.103:

<u>EU #:</u>	<u>Equipment Description</u>
02-41	1240 Integral Quench Furnace (max 0.600,000 MMBtu/hr)
02-42	7191 Integral Quench Furnace (max 0.600,000 MMBtu/hr)
02-43	5267 Integral Quench Furnace (max 0.600,000 MMBtu/hr)
02-45	1022 Internal Quench Furnace (max 0.600,000 MMBtu/hr)
02-46	Rust Prevention Tank (41 max gallons – 15 gallons operating level) (Currently uses – Katz 5550 which contains no SARA 312/313, pH 7.0-9.0)
03-09	Caustic Strip Tank- 2,870 gallons
03-99	B3 Smith Hydronic Boiler (0.670,000 MMBtu/hr)
12-01	Heat Treat I.Q. Furnace (0.275,000 MMBtu/hr) (Installed Jan '68 – grandfathered before Sept 1970)
18-21	Building 18 Wash Booth
HEAVY	Miscellaneous Heavy Oils
T-60	B14 Diesel Fuel Storage Tank – 6,000 gallons
T-61	B2G Diesel Fuel Storage Tank – 6,000 gallons
T-62	B2B J-20C Oil Storage Tank – 8,225 gallons
T-63	B2G Antifreeze Storage Tank – 7,050 gallons
T-64	B2G 10W-30 Storage Tank – 8,300 gallons
T-67	B2 Clean Oil Storage Tank – 1,800 gallons
T-68	B2 Dirty Oil Storage Tank – 1,800 gallons
T-69	B2 Humble H46 Storage Tank – 1,350 gallons
T-70	B2 Cutting Oil Storage Tank – 1,350 gallons
T-75	B16 Used Oil Storage Tank #1 – 4,000 gallons
T-76	B16 Used Oil Storage Tank #2 – 4,000 gallons
T-77	B3 Diesel Storage Tank – 8,000 gallons
T-78	B3 J20C Oil Storage Tank - 8,000 gallons
T-79	B3 Antifreeze Storage Tank - 8,000 gallons
T-80	B40 10W30 Oil Storage Tank - 18,600 gallons
T-81	B40 Diesel Storage Tank – 15,200 gallons
T-82	B40 RV Antifreeze Storage Tank – 15,200 gallons
T-83	B40 Antifreeze Storage Tank - 900 gallons

(EU Weld Fug 1)- Production Welding Fugitive Emissions was applied for as an insignificant emission unit, but was not placed into the Title V permit as insignificant. This is because its PTE exceeds insignificant activity PTE thresholds (PM & PM₁₀ PTE = 22,144 lbs./yr). Production Welding has subsequently applied for and received a Polk County AQD Construction Permit #2596 for GMAW/SMAW Welding, now identified as (EU Weld 01), which is included in the Title V Permit as a significant EU.

(EU 2X-Gen / EP 2X-Gen: 7083 B2X Back-up Generator – 0.068 mmBtu/hr (20 kw) (26.8 HP)), (EU 10-Gen / EP 10-Gen: 7705 B10 Back-up Generator for Lift Stations- 0.167 mmBtu/hr (51 kw) (68.4 HP)), (EU 57-Gen / EP 57-Gen: 7201 B57 Back-up Generator– 0.082 mmBtu/hr (24 kw) (32.2 HP)) were applied for as insignificant. It was determined that are subject to NESHAP Subpart ZZZZ and are therefore significant. They have been placed into the Title V permit with applicable NESHAP Subpart ZZZZ requirements.

(EU T-59 / EP T-59) B14 Unleaded Gas Storage Tank – 6,000 gallons was applied for as insignificant. It was determined that it is subject to NESHAP Subpart CCCCCC and is therefore significant. It has been placed into the Title V permit with applicable NESHAP Subpart CCCCCC requirements.

(EU Weld FUG 2) Maintenance Welding Fugitive Emissions was applied for as insignificant, but was incorporated into PC # 2596 (EU Weld 01) GMAW/SMAW Welding, and has therefore been removed from the Title V Insignificant List.

The following equipment has been permanently removed or disconnected and the associated construction permits have been voided / rescinded:

- **72-A-54** ...Exhaust Washing System issued 1972, void 9/21/2012 by facility letter to DNR requesting rescission.
- **73-A-01** ...Zero Blast Machine & Bag Collector issued 1973, void 9/21/2012 by facility letter to DNR requesting rescission.
- Polk County Construction Permit #0119 462 Shot Blast Machine & Dust Collectorequipment removed rescinded 8/7/2012.
- Polk County #0120..... Chrome Plate Exhaust Fan/ Separator (EU 02-01 / CE 02-01 / EP 02-01)rescinded: 6/21/2012
- Polk County Construction Permit #0181 Bldg. 3-D Paint Spray Booth- Devilbiss Dynaclean DCC510....equipment removed rescinded 8/7/2012.
- Polk County #0206...Dry Filter Paint Spray Booth Bldg. 12 (System 34)..... rescinded: 11/15/2012 by PC# 2233 Modified#2.
- Polk County #0214...(4) existing boilers ((2)-400 HP & (2) 300 HP) burning #6 fuel oil..... rescinded: 11/27/2012 by PC# 2516, 2517, and 2518.
- Polk County #0394 Revised.....2- Down Draft Wash Paint Spray Booths.....rescinded: 7/19/2004
- Polk County Construction Permit #0400 Wheel Welder with Cartridge Dust Collector, Bldg. 3equipment removed rescinded 8/7/2012.
- Polk County Construction Permit #0505 Bldg. I-J (7000 acfm American Air Filter, Model 2 size 6-168-600 Baghouse)equipment removed rescinded 8/7/2012.
- Polk County #0538 Revised.....Touch Up Spray Boothrescinded: 9/11/2006
- Polk County #0831..... 2 Paint Booths w/ 4 stacks each in Bdg. 18....rescinded: 5/8/2003

- Polk County #0832..... Bldg. 2 Touch Up Spray Boothrescinded: 1/12/2004
- Polk County #0833...Flame Cut Vent...void by PC # 0833 Modified: 12/7/2012.
- Polk County #0834.....(EU 12-06) Parts Washer.....rescinded: 2/6/2012
- Polk County Construction Permit #0895 6675 S.C. Temper Furnaceequipment removed rescinded 11/20/2013.
- Polk County Construction Permit #0896 6676 S.C. Temper Furnaceequipment removed rescinded 11/20/2013.
- Polk County Construction Permit #0897 6565 S.C. Temper Furnaceequipment removed rescinded 8/7/2012.
- Polk County Construction Permit #0898 6674 S.C. Temper Furnaceequipment removed rescinded 11/20/2013.
- Polk County Construction Permit #0899 6047 S.C. Temper Furnaceequipment removed rescinded 11/20/2013.
- Polk County #0900..... 5984 Sauder Forge Furnace (EU 01-22 / EP 01-22, 01-23)rescinded: 6/21/2012
- Polk County #0901..... SFE Temper Furnace (EU 01-25 / EP 01-25, 01-26)rescinded: 6/21/2012
- Polk County #0903.....(EU / EP 02-44)..... rescinded: 6/27/2008 by PC# 0903 Modified
- Polk County #0903 Modified.....(EU / EP 02-44)..... rescinded: 4/17/2013 by PC# 0903 Modified #2
- Polk County #0904.....(EU 03-10 / EP 03-10) 6308 Forge Furnace (box).....rescinded: by Polk County letter dated 10/14/2013.
- Polk County #0905.....(EU 03-11) 6391 Forge Furnace.....rescinded: 2/6/2012
- Polk County #1007 Modified #2.....(EU 03-03) B3 N Touch-Up Paint Booth..... rescinded: 5/20/2010 by PC# 2233
- Polk County #1085.....(EU 03-06 / EP 03-06, 03-07, 04-01, 04-02) Natural gas fired heater inside existing paint curing oven...rescinded: by Polk County letter dated 10/14/2013.
- Polk County #1255.....(EU 01-29 / EP 01-29 01-30) Roller Hearth Forge Furnace.... rescinded: 9/26/2012 by letter.
- Polk County #1530 Modified #3.....(EU 18-01-PB) Bldg. 18 Paint Spray Booth..... rescinded: 5/20/2010 by PC# 2233
- Polk County #1531 ...Schweitzer model Custom 4, 5 stacks issued 2003...rescinded 12/8/2005 by PC # 1531 Modified.
- Polk County #1531 Modified... .. Building 18 Spray Paint Booth Dry Off Oven (EU 18-17 / EP 18-17) ...rescinded 1/22/2013 by PC # 1531 Modified #2.
- Polk County #1602.....(EU 11-09, 11-10, 11-11) 130 Rotomolding Machine Model 4130.....rescinded: 9/19/2006 by PC # 1829.
- Polk County #1606..... rescinded by PC# 1606 Modified
- Polk County #1606 Modifiedrescinded: 11/28/2006 by PC# 1606 Modified #2.
- Polk County #1607 Modified.....(EU 02-16) 20058 Touch-Up Paint Booth w/ dry filters.....rescinded: 5/20/2010 by PC# 2233
- Polk County #1608.....(EU 03-28 – 03-31) ...Bldg. 3 water heaters.....rescinded: 9/9/2010 by PC# 1608 Modified
- Polk County #1608 Modified.....(EU 03-30 – 03-31) ...Immersol Jet Burners.....rescinded: 1/22/2013 by PC# 1608 Modified #2.
- Polk County #1650... Building 3 Spray Paint Booths Air Make Up Units (EU 03-22)..... rescinded: 11/15/2012 by PC# 2233 Modified#2.

- Polk County #1651... Building 3 Spray Paint Booths Air Make Up Units (EU 03-23)..... rescinded: 11/15/2012 by PC# 2233 Modified#2.
- Polk County #1652...Building 3 Spray Paint Booths Air Make Up Units (EU 03-25)..... rescinded: 11/15/2012 by PC# 2233 Modified#2.
- Polk County #1653 Modified...(1) Titan Air 1.65 MMBtu/hr, (1) Titan Air 2.6 MMBtu/hr natural gas or propane fired Air Make-up Units (EU 03-23), w/ ATI ODM-Ultra System Dry Filter System (CE 03-21 / EP 03-21)..... rescinded: 11/15/2012 by PC# 2233 Modified#2.
- Polk County #1654 Modified.....(EU 03-21) Spray Booths North & South w/ dry filters.....rescinded: 2/2/2011.
- Polk County #1692 Modified...(1) Titan Air 3.96 MMBtu/hr natural gas or propane fired Air Make-up Unit (EU 03-24), w/ ATI OSM-Ultra System Dry Filter System (CE 03-21 / EP 03-21)..... rescinded: 11/15/2012 by PC# 2233 Modified#2.
- Polk County #1694 Modified.....(EU 03-21, 03-32, 03-33) Bldg. 3- 2 Spray Booths North & South w/ dry filters, Touch Up Paint Booth , and Paint Mix Room..... rescinded: 5/20/2010 by PC# 2233.
- Polk County Construction Permit #1695 Air Make Up Units (2.0 MMBtu) (EU 03-33 / CE 03-32 / EP 03-32, 03-33)equipment removed rescinded 11/20/2013.
- Polk County Construction Permit #1696 Air Make Up Units (2.7 MMBtu) (EU 03-34 / CE 03-33 / EP 03-34)equipment removed rescinded 11/20/2013.
- Polk County #1815...George Koch & Sons (5) 3 MMBtu Natural Gas E-Coat and Post Rinse Paint Oven (EU 02-31 / EP 02-18 : 02-26)..... rescinded: 11/15/2012 by PC# 2233 Modified#2.
- Polk County #1825.....(EU 03-27) ...George Koch & Sons Nat. gas Bldg. 3 Washer Dry Off Oven..... rescinded: 1/18/2013 by PC# 1825 Modified
- Polk County #1827.....(EU 02-32) ...George Koch & Sons Pre E-Coat Dry Off Oven..... rescinded: 1/16/2013 by PC# 1827 Modified
- Polk County #1828(EU 02-15) 2 MM BTU D23 Paint Booth Bake Ovens.....rescinded: 1/21/2011
- Polk County #1830.....(EU 11-09) ...Rotational Engineering 4.5 MMBtu Rotomold Oven..... rescinded: 4/16/2013 by PC# 1830 Modified
- Polk County #1831.....(EU 18-01-OVEN) ...Schweitzer 5.6 MMBtu/hr Bldg. 18 Spray Paint Booth Oven..... rescinded: 1/22/2013 by PC# 1831 Modified.
- Polk County #1832... Building 18 Spray Paint Booth Air Make Up Unit, w/ Schweitzer Dry Filter System (EU 18-13 / CE 18-01 / EP 18-01 : 18-12)..... rescinded: 11/15/2012 by PC# 2233 Modified#2.
- Polk County #1833... Building 18 Spray Paint Booth Air Make Up Unit, w/ Schweitzer Dry Filter System (EU 18-14 / CE 18-01 / EP 18-01 : 18-12)..... rescinded: 11/15/2012 by PC# 2233 Modified#2.
- Polk County #1834... Building 18 Spray Paint Booth Air Make Up Unit, w/ Schweitzer Dry Filter System (EU 18-15 / CE 18-01 / EP 18-01 : 18-12)..... rescinded: 11/15/2012 by PC# 2233 Modified#2.
- Polk County #1835 Modified.....(EU 18-12) 20055 Touch-Up Paint Booth w/ ATI Ultra filters..... rescinded: 5/20/2010 by PC# 2233.
- Polk County #1836...8.7 MMBtu/hr 20055 Spray Paint Touch Up Booth Air Make-up Unit w/ ATI Ultra Filter System (EU 18-16 / CE 18-12 / EP 18-12 : 18-16)..... rescinded: 11/15/2012 by PC# 2233 Modified#2.

- Polk County #2032.....(EU 02-35) ... (2) 5.3 MMBtu Maxon Corp. Model 8” Tube-O-Therm Nat. Gas/ Propane fired E-Coat Alkaline Process Heaters..... rescinded 1/17/2013 by PC# 2032 Modified
- Polk County #2069 Modified #3.....(EU 03-LC1 – 01-LC4) ... Laser Cutters..... rescinded 12/3/2012 by PC# 2069 Modified #4
- Polk County #2069 Modified #4.....(EU 01-LC1 – 26-LC5) ... Laser Cutters..... rescinded 10/3/2013 by PC# 2069 Modified #5
- Polk County #2082.....(EU CG01) Non-Paint Booth Cup Guns..... rescinded: 5/20/2010 by PC# 2233
- Polk County# 2083.....(EU 02-PST1, PST2, PST3) (3) 20,800 gallon E-coat paint storage tanks.....rescinded 1/22/2009
- Polk County #2084.....(EU CT-001) 470 gallon/minute S. Cooling Tower..rescinded: 8/23/2010 by PCAQD per facility request letter dated 8/11/2010.
- Polk County #2085.....(EU CT-025 / EP CT-025) Marley Model 603878A 200 gallon/minute Cooling Tower..rescinded:11/20/2013 by PCAQD letter.
- Polk County #2086.....(EU 02- PST4) E-coat resin storage tank.....rescinded 1/22/2009.
- Polk County #2103.....(EU 02-OX1, 02-OX2 / CE 02-OX / EP02-OXf)... (2) Lissmac Model SBM 1500-A Oxide Removers w/ Torit Model TD 486 Dust Collector..... rescinded: 12/31/2012 by PC# 2103 Modified
- Polk County #2104.....(EU 03-OX1 / CE 03-OX1 / EP03-OXf)... (1) Lissmac Model SBM 1500-A Oxide Remover w/ Torit Model TD 486 Dust Collector..... rescinded: 12/31/2012 by PC# 2103 Modified
- Polk County Construction Permit #2105 (16) 24”x72” and (6) 24”x36” Cata-Dyne Series G-6K Catalytic Heaters with a combined heat input of 1.368 MMBtu/hr (EU 02-14 / EP 02-15)....equipment removed rescinded 8/7/2012.
- Polk County #2122.....(EU 02-G1, 02-G2A:D, 02-G3A:C / CE 02-G1, 02-G2, 02-G3 / EP 02-G1, 02-G2, 02-G3)...Building 2 Grinders..... rescinded: 2/26/2013 by PC# 2122 Modified.
- Polk County #2233.....Wet Paint Spraying Operations... rescinded 2/2/2011 by PC# 2233 Modified.
- Polk County #2233 Modified.....(EU 02-30 : 18-12)...Wet Paint Spraying Operations... rescinded 4/24/2013 by PC# 2233 Modified #2.
- Polk County #2233 Modified #2.....(EU 02-30 : 18-16)...Wet Paint Spraying Operations... rescinded 11/15/2012 by PC# 2233 Modified #3.
- Polk County #2233 Modified #3.....(EU 02-30 : 18-16)...Wet Paint Spraying Operations... rescinded 10/9/2013 by PC# 2233 Modified #4.
- Polk County #2234(EU 03-10) Paint Cure Oven.....rescinded: 1/14/2011 by PC# 2273.
- Polk County #2518...Clever Brooks 400 BHP (13.4 MMBTU/hr) West Boiler combusting Nat. Gas or Propane (EU 2-38 / EP 2-38)..... rescinded: 4/25/2013 by PC# 2518 Modified.

B. Applicable Rules and Regulations:

Polk County Air Quality Construction Permit #0432 for EU 01-28 – 6213 Wheelabrator Shot Blast, CE 01-28 – Torit baghouse: This permit requires emission limits for PM₁₀ of 0.002 gr./dscf and an opacity of <20%. Operational limits shall include routine maintenance and inspection of the Torit Baghouse.

Polk County Air Quality Construction Permits #0890 Modified for EU 02-01 – 1062 Chrome Plating Tank, CE 02-01 – Composite Mesh Pad Vertical Mist Eliminator, KCH Spectr U-111-9000: This permit requires emission limits for PM/ PM₁₀ of 0.79 lb./ hr., 3.45 TPY, & 0.01 gr./dscf, no Visible Emissions, and HAP-Total Chromium of 0.00041 lb./ hr., 0.0018 TPY, & 0.01197 milligrams/dscm.

Work practice standards are included in the following summary table:

Summary of Work Practice Standards

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

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

Note: The original Title V Permit and R1 Facility Draft had requirements listed for a Stalagmometer and Pitot Tube. These are not used in the control option used by John Deere, hence the language has been removed prior to the Public Comment phase.

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

Reporting & Record keeping:

Summary of record keeping requirements

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

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

- All applicable provisions of 40 CFR Part 63 Subpart N shall be complied with.
- The owner or operator shall fulfill all applicable recordkeeping requirements contained in 40 CFR §63.346
- The owner or operator shall fulfill all applicable reporting requirements contained in 40 CFR §63.347
- The owner or operator shall fulfill all applicable operation and maintenance practices contained in 40 CFR §63.342 (f)

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

The pressure drop across the composite mesh-pad (CMP) system (CE 02-01) on #1062 Chrome plating tank shall be observed and recorded once per day. The pressure drop across the composite mesh-pad (CMP) system (CE 02-01) on #1062 Chrome plating tank shall be operated within ± 2 inches of water column of the pressure drop value established during the initial performance test (*1.89 inches of water column*). If the pressure drop exceeds plus or minus two (2) inches of water column of pressure drop value established during the 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, and observer's signature. The log book will be maintained on site for 5 years and be made available to representatives of Polk County Air Quality Division upon request.

The initial performance test was conducted and passed on November 5, 1996. Test Method used – 40 CFR 63.344, Reference Method 306 with authority for requirement - 40 CFR 63 Subpart N. (*Result was 1.89 inches of water column*)

EU 02-02 Acid Dip for Chrome Plating Line, with KCH Centrifugal Mist Eliminator on 1062 Electropolish Vent, is permitted under PC # 2528. This permit limits PM/ PM10 to 0.31 lbs./hr., 1.36 TPY, and 0.10 gr/dscf. Opacity is limited to <20%.

(EU 02-10 / EP 02-P10) is permitted under PC# 2273. This permit limits PM/ PM10 to 0.31 lbs./hr, 1.32 TPY, 0.10 gr/dscf; opacity to <20%; SOx to 0.65 lbs/hr, 2.83 TPY, 500 ppmv; NOx to 5.60 lbs./hr, 24.52 TPY; VOC to 0.44 lbs/hr, 1.89 TPY; and CO to 3.25 lbs/hr, 14.21 TPY.

(EU 02-32 / EP 02-32, 02-37) is permitted under PC# 1827 Modified. This permit limits PM/ PM10 to 0.03 lbs./hr, 0.13 TPY, 0.10 gr/dscf; opacity to <20%; SOx to 0.01 lbs/hr, 0.01 TPY, 500 ppmv; NOx to 0.57 lbs./hr, 2.50 TPY; VOC to 0.02 lbs/hr, 0.09 TPY; and CO to 0.33 lbs/hr, 1.45 TPY.

(EP 02-35/EU 02-35) is permitted under Polk County #2032 Modified. This permit limits PM/ PM10 to 0.09 lbs./hr, 0.39 TPY, 0.10 gr/dscf; opacity to <20%; SOx to 0.01 lbs/hr, 0.03 TPY, 500 ppmv; NOx to 1.51 lbs./hr, 6.61 TPY; VOC to 0.06 lbs/hr, 0.25 TPY; and CO to 0.87 lbs/hr, 3.81 TPY.

(EP02-38/EU 02-38) Boiler is permitted by Polk County # 2518 Modified. This permit limits PM/ PM10 to 0.12 lbs./hr, 0.51 TPY, 0.10 gr/dscf; opacity to <20%; SOx to 0.01 lbs/hr, 0.03 TPY, 500 ppmv; NOx to 1.90 lbs./hr, 8.34 TPY; VOC to 0.07 lbs/hr, 0.325 TPY; and CO to 1.10 lbs/hr, 4.83TPY. A facility wide CO2e limit is placed in PC# 2518 Modified of 94,000 TPY.

(EU 02-39 / EP 02-39) Boiler is permitted by Polk County # 2516. This permit limits PM/ PM10 to 0.12 lbs./hr, 0.51 TPY, 0.10 gr/dscf; opacity to <20%; SOx to 0.01 lbs/hr, 0.03 TPY, 500 ppmv; NOx to 1.90 lbs./hr, 8.34 TPY; VOC to 0.07 lbs/hr, 0.32 TPY; and CO to 1.10 lbs/hr, 4.83TPY.

(EU 02-40/EP 02-40) is permitted by Polk County # 0902 for the 0.4228 MMBtu/ hr 6262 S.C. Atmospheric Generator combusting Natural Gas. This permit limits PM/ PM10 to 0.00497 lbs./hr, 0.0218 TPY; opacity to No Visible Emissions; SOx to 0.00025 lbs/hr, 0.0011 TPY; NOx to 0.04140 lbs./hr, 0.1813 TPY; VOC to 0.00219 lbs/hr, 0.0096 TPY; and CO to 0.00869 lbs/hr, 0.0381TPY.

(EU 02-44/ CE 02-44 / EP 02-44) is permitted by Polk County #0903 Modified #2 for the Surface Combustion 0.1 MMBtu/hr 6346 Temper Furnace (D39) Combusting Natural Gas or Propane. This permit limits PM/ PM10 to 0.001 lbs./hr, 0.004 TPY, 0.10 gr/dscf; opacity to <20%; SOx to 0.001 lbs/hr, 0.001 TPY, 500 ppmv; NOx to 0.014 lbs./hr, 0.062 TPY; VOC to 0.001 lbs/hr, 0.002 TPY; and CO to 0.008 lbs/hr, 0.036TPY. The furnace is direct fired. The permit limits are equal to the design capacity of the equipment and it therefore will not be monitored. Work practice standards shall include routine maintenance and inspection. Opacity monitoring shall be done once a week, utilizing the Method 22 like standard requirement, where a Method 9 observation is required if any VEs are observed.

(EU 02-47/EP 02-60) is permitted by Polk County # 1740 Modified for the Williams Industries Model 3600 1000 Btu/hr Natural Gas Endothermic Generator. This permit limits PM/ PM10 to 0.00001 lbs./hr, 0.000003 TPY, 0.01 gr/dscf; opacity to no visible emissions; SOx to 500 ppmv; NOx to 0.0001 lbs./hr, 0.00044 TPY; VOC to 0.00001 lbs/hr, 0.00002 TPY; and CO to 0.00008 lbs/hr, 0.00037 TPY.

(EU 02-51/ CE 02-51 / EP 02-51) is permitted by Polk County #0807 Modified for 7153 Chrome Plating Tank with KCH Spectr U-111-9000 Composite Mesh Pad Vertical Mist Eliminator. This permit limits PM / PM10 to 1.15 lbs.hr, 5.03 TPY, 0.01 gr/dscf; opacity to no visible emissions; and HAP (Total Chromium) to 0.00067 lbs.hr, 0.0029 TPY, and 0.01341 milligrams/dscm.

Work practice standards from 40 CFR 63 Subpart N are included in the following summary table:

Summary of Work Practice Standards

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

Note: The original Title V Permit and R1 Facility Draft had requirements listed for a Stalagmometer and Pitot Tube. These are not used in the control option used by John Deere, hence the language has been removed prior to the Public Comment phase.

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

Reporting & Record keeping:

Summary of record keeping requirements

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

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

The pressure drop across the composite mesh-pad (CMP) system (CE 02-51) on #7153 Chrome Plating Tank shall be observed and recorded once per day. The pressure drop across the composite mesh-pad (CMP) system (CE 02-51) on #7153 Chrome Plating Tank shall be operated within ± 2 inches of water column of the pressure drop value established during the initial performance test (*3.20 inches of water column*). If the pressure drop exceeds plus or minus two (2) inches of water column of pressure drop value established during the 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, and observer's signature. The log book will be maintained on site for 5 years and be made available to representatives of Polk County Air Quality Division upon request.

The initial performance test was conducted and passed on May 1, 1998. Test Method used – 40 CFR 63.344, Reference Method 306 with authority for requirement - 40 CFR 63 Subpart N. *(Result was 3.20 inches of water column)*

EP 02-51 shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer's signature, and whether any emissions were observed. If visible emissions are observed, 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.

Polk County Air Quality Construction Permit #0808 for (EU 02-52/CE 02-52 / EP 02-52)– Electropolish pretreatment tank and two warm water rinse tanks on hard chrome plating machine - T1, T3, and T4 (7153 *Electropolish*), with Centrifugal moisture extractor. Sulfuric acid and phosphoric acid are the emissions and are expressed as particulate. This permit requires emission limits for PM₁₀ of 0.225 lbs./hr, 0.9898 TPY, and 0.0055 gr/SCFM. Chapter V, Article VI, Section 5-15 limits PM to 0.01 gr./dscf. Chapter V, Article IV, Section 5-9 limits opacity to <20%.

Polk County Air Quality Construction Permit #2103 Modified for [(EU 02-OX1, 03-OX1 / CE 03-OX / EP 03-OXf) (EU 02-OX2 / CE 02-OX / EP 02-OXf)] - (3) Lissmac Model SBM 1500-A Oxide Removers, with (2) Torit Model TD 486 Dust Collectors. This permit limits PM/ PM₁₀ from each of the two EPs to 0.10 lbs./hr, 0.44 TPY, and 0.05 gr./dscf; and opacity to no visible emissions.

Polk County Air Quality Construction Permit #2517 for (EU 3-02 / EP 3-02)- Cleaver Brooks 300 BHP (10.04 MMBtu/hr) Boiler combusting Natural Gas or Propane. This permit limits PM/ PM₁₀ to 0.09 lbs/hr, 0.38 TPY, 0.10 gr/dscf; opacity to <20%; SO_x to 0.01 lbs/hr, 0.03 TPY, 500 ppmv; NO_x to 1.43 lbs./hr, 6.25 TPY; VOC to 0.05 lbs/hr, 0.24 TPY; and CO to 0.83 lbs/hr, 3.62TPY.

(EU 03-27/EP 03-27) George Koch & Sons 4 MMBtu/hr Washer Dry Off Oven is permitted by Polk County # 1825 Modified. This permit limits PM/ PM₁₀ to 0.03 lbs.hr, 0.13 TPY, 0.10 gr/dscf; opacity to <20%; SO_x to 0.01 lbs/hr, 0.01 TPY, 500 ppmv; NO_x to 0.57 lbs./hr, 2.50 TPY; VOC to 0.02 lbs/hr, 0.09 TPY; and CO to 0.33 lbs/hr, 1.45TPY.

Polk County Air Quality Construction Permit #1608 Modified #2 for (EU 03-30 / EP 03-30) – Immersol Jet Burner: Washer- Heat Stage 1B. This permit requires emission limits for PM/ PM₁₀ to 0.03 lbs.hr, 0.13 TPY, 0.10 gr/dscf; opacity to <20%; SO_x to 0.01 lbs/hr, 0.01 TPY, 500 ppmv; NO_x to 0.51 lbs./hr, 2.23 TPY; VOC to 0.02 lbs/hr, 0.09 TPY; and CO to 0.30 lbs/hr, 1.31TPY.

Polk County Air Quality Construction Permit #1608 Modified #2 for (EU 03-31 / EP 03-31) – Immersol Jet Burner: Washer- Heat Stage 1A. This permit requires emission limits for PM/ PM₁₀ to 0.03 lbs.hr, 0.13 TPY, 0.10 gr/dscf; opacity to <20%; SO_x to 0.01 lbs/hr, 0.01 TPY, 500 ppmv; NO_x to 0.51 lbs./hr, 2.23 TPY; VOC to 0.02 lbs/hr, 0.09 TPY; and CO to 0.30 lbs/hr, 1.31TPY.

Polk County Air Quality Construction Permit # 2088 for (EU 11-08 / CE 11-08 / EP 11-08)- Centro Plastic Storage Silo, with Camcorp Model 3125 Silo Bin Vent Dust Collect. This permit requires emission limits for PM/ PM₁₀ to 0.09 lbs.hr, 0.38 TPY, 0.01 gr/dscf; and opacity to <20%.

Polk County Air Quality Construction Permit #1830 Modified for (EU 11-09 / EP 11-09) – Rotational Engineering Model CH130 4.5 MMBtu/hr Rotomold Oven combusting Natural Gas or Propane. This permit limits PM/ PM₁₀ to 0.04 lbs.hr, 0.18 TPY, 0.10 gr/dscf; opacity to <20%; SO_x to 0.01 lbs/hr, 0.01 TPY, 500 ppmv; NO_x to 0.64 lbs./hr, 2.80 TPY; VOC to 0.03 lbs/hr, 0.13 TPY; and CO to 0.37 lbs/hr, 1.62TPY.

Polk County Air Quality Construction Permit #1829 for (EU 11-10 / EP 11-09, 11-10, & 11-11) – Rotational Engineering Model CH130, 700 lb/hr Rotomold Machine . This permit limits PM/ PM₁₀ to 0.04 lbs.hr, 0.20 TPY, 0.10 gr/dscf; opacity to No Visible Emissions; VOC to 0.08 lbs/hr, 0.34 TPY; Cadmium to 0.04 lbs./ hr, 0.20 TPY; Antimony to 0.04 lbs./ hr, 0.20 TPY; and Chromium to 0.04 lbs./ hr, 0.20 TPY.

Polk County Air Quality Construction Permit # 0833 Modified for EU 11-12/EP 11-12– Flame Cut Table: This permit requires emission limits for PM/ PM₁₀ of 0.01 ton/year, 0.10 gr/dscf; SO_x of 0.01 ton/year, 500 ppmv; NO_x of 0.01 ton/year; VOC of 0.01 ton/year; CO of 0.01 ton/year; and opacity of <20%. Propylene gas use shall be limited to 40,000 cubic feet per 12 month period rolled monthly. A rolling 12 month log of use shall be maintained on site for 5 years.

Polk County Air Quality Construction Permit # 2334 for [(EU 11-13 / EP 11-13, 11-14)(EU 11-15 / EP 11-15)] - 500 lb/hr Ovenpak LE Rotomold Machine Oven with 4.5 MMBtu/hr, Maxon Low Emission Burners combusting natural gas or propane (EU 11-15/ EP 11-15), and Rotomold Pre-cool and Cooling Chambers (EU 11-13 / EPs 11-13, 11-14). This permit requires emission limits for PM/ PM₁₀ to 0.07 lbs.hr, 0.31 TPY, 0.10 gr/dscf; opacity to <20%; SO_x to 0.01 lbs/hr, 0.01 TPY, 500 ppmv, 0.5 lb./MMBtu; NO_x to 0.64 lbs./hr, 2.80 TPY; VOC to 0.04 lbs/hr, 0.17 TPY; and CO to 0.37 lbs/hr, 1.62TPY.

(EU 16-01/EP 16-01) is permitted by Polk County # 1826 for the Building 16 Clarke Model JU6H-UF60 1.411 MMBtu/hr 240 Bhp Diesel Fire Pump. This permit limits PM/ PM₁₀ to 0.44 lbs.hr, 1.91 TPY; opacity to no visible emissions; SO_x to 0.41 lbs.hr, 1.79 TPY; NO_x to 6.22 lbs./hr, 27.24 TPY; VOC to 0.49 lbs/hr, 2.16 TPY; and CO to 1.34 lbs/hr, 5.87 TPY. Facility shall comply with all applicable conditions of 40 CFR Part 63 Subpart ZZZZ. The owner or operator shall operate EU 16-01 in a manner consistent with the definition of an emergency RICE per §63.6675.

Polk County Air Quality Construction Permit #1831 Modified for (EU 18-01-OVEN / EP 18-18)-Schweitzer 5.6 MMBtu/hr Building 18 Spray Paint Booth Oven Combusting Natural Gas or Propane. This permit limits PM/ PM₁₀ to 0.05 lbs.hr, 0.22 TPY, 0.10 gr/dscf; opacity to <20%; SO_x to 0.01 lbs.hr, 0.01 TPY, 500 ppmv; NO_x to 0.80 lbs./hr, 3.50 TPY; VOC to 0.03 lbs/hr, 0.13 TPY; and CO to 0.46 lbs/hr, 2.02 TPY.

Polk County Air Quality Construction Permit #1531 Modified #2 for (EU 18-17 / EP 18-17)- 4 MMBtu/hr Building 18 Paint Booth Dry Off Oven Combusting Natural Gas or Propane. This permit limits PM/ PM₁₀ to 0.03 lbs.hr, 0.13 TPY, 0.10 gr/dscf; opacity to <20%; SO_x to 0.01 lbs.hr, 0.01 TPY, 500 ppmv; NO_x to 0.57 lbs./hr, 2.50 TPY; VOC to 0.02 lbs/hr, 0.09 TPY; and CO to 0.33 lbs/hr, 1.45 TPY.

Polk County Air Quality Construction Permit #1816 for (EU 26-01 / CE 26-01 / EP 26-01)- 7377 Wheelabrator Shot Blast (EU 26-01), with 7377 Torit Model DFT3-12 Dust Collector (CE 26-01). This permit limits PM/ PM₁₀ to 0.002 lbs.hr, 0.01 TPY, 0.10 gr/dscf; opacity to No Visible Emissions.

Polk County Air Quality Construction Permit #2123 for (EU 26-02 / CE 26-02 / EP 26-02)- Building 26 tube blow out booth (EU 26-02), with Torit Model ECB-31332 Baghouse (CE 26-02). This permit limits PM/ PM₁₀ to 0.09 lbs.hr, 0.38 TPY, 0.01 gr/dscf.

Polk County Air Quality Construction Permit #2526 for (EU 40-01 / EP 40-01)- Kohler 133 Bhp, diesel fired, Emergency Generator. This permit limits PM/ PM₁₀ to 0.26 lbs.hr, 0.07 TPY, 1.2 gram/ kW-hr; opacity to <20%; SO_x to 0.27 lbs.hr, 0.07 TPY, 0.5 gram/ kW-hr; NMHC + NO_x to 1.44 lbs./hr, 0.36 TPY, 6.6 gram/ kW-hr; and CO to 0.89 lbs/hr, 0.22 TPY. EU 40-01 is subject to 40 CFR 60 Subpart III and 40 CFR 63 Subpart ZZZZ. Applicable requirements from these subparts have been placed into PC #2526 and transferred into the Title V Permit.

(EU 2X-Gen / EP 2X-Gen: 7083 B2X Back-up Generator – 0.068 mmBtu/hr (20 kw) (26.8 HP)), (EU 10-Gen / EP 10-Gen: 7705 B10 Back-up Generator for Lift Stations- 0.167 mmBtu/hr (51 kw) (68.4 HP)), (EU 57-Gen / EP 57-Gen: 7201 B57 Back-up Generator– 0.082 mmBtu/hr (24 kw) (32.2 HP)) were applied for as insignificant. It was determined that are subject to NESHAP Subpart ZZZZ and are therefore significant. They have been placed into the Title V permit with applicable NESHAP Subpart ZZZZ requirements. These units are exempt from Polk County Construction Permit requirement by Chapter V, Article X, Division 1, ¶5-33 (18).

Polk County Air Quality Construction Permit #2087 for (EU CT-02X / EP CT-02X)- Marley Model 047306/A92522A 86 gallon/minute Cooling Tower. This permit limits PM/ PM10 to 0.044 lbs.hr, 0.19 TPY, 0.01 gr/dscf; opacity to <20%.

Polk County Air Quality Construction Permit #2527 for (EU CT-02 / EP CT-02)- Marley Model AQ495M1SAF Cooling Tower. This permit limits PM to 0.01 lbs.hr, 0.04 TPY, 0.01 gr/dscf; PM10 to 0.01 lbs.hr, 0.02 TPY, 0.01 gr/dscf; opacity to <20%.

Exempt from construction permitting: (EU F01-01; F01-02; F01-03 / EP JAN-FUG; PW-FUG; HAP-FUG). These are fugitive VOC and HAP emissions related to plant wide janitorial and maintenance activities. There are no applicable rules or limits at this time.

Polk County Air Quality Construction Permit #2122 for [(EU 02-G1 / CE 02/G1 / EP 02-G1) (EU 02-G2A, 02-G2B, 02-G2C, 02-G2D / CE 02-G2 / EP 02-G2) (EU 02-G3A, 02-G3B, 02-G3C / CE 02-G3 / EP 02-G3) (EU 02-G4 / CE 02-G4 / EP 02-G4) (EU 02-G5 / CE 02-G5 / EP 02-G5) (EU 02-G6 / CE 02-G6 / EP 02-G6) (EU 02-G7 / CE 02-G7 / EP 02-G7)]- Building 2 Grinders and Machining Centers. This permit limits: (EP 02-G1 PM/ PM10 to 0.10 lbs.hr, 0.44 TPY, 0.01 gr/dscf); (EP 02-G2 PM/ PM10 to 0.13 lbs.hr, 0.57 TPY, 0.01 gr/dscf); (EP 02-G3 PM/ PM10 to 0.13 lbs.hr, 0.57 TPY, 0.01 gr/dscf); (EP 02-G4 PM/ PM10 to 0.08 lbs.hr, 0.35 TPY, 0.01 gr/dscf); (EP 02-G5 PM/ PM10 to 0.08 lbs.hr, 0.35 TPY, 0.01 gr/dscf); (EP 02-G6 PM/ PM10 to 0.06 lbs.hr, 0.26 TPY, 0.01 gr/dscf); and (EP 02-G7 PM/ PM10 to 0.06 lbs.hr, 0.26 TPY, 0.01 gr/dscf).

Polk County Air Quality Construction Permit #1606 Modified #2 for (EU 18-1801 / EP Engine Exhausts)- Engine Exhaust Stations – Multiple Exhaust Pick-ups (62), Engine Maximum 1,000 hp (44.0 gallon/hr per *exhaust* station). This permit limits PM/ PM10 to 1.92 lbs.hr, 6.05 TPY, 0.10 gr/dscf; opacity to <20%; SOx to 0.30 lbs.hr, 0.94 TPY, 500 ppmv; NOx to 12.48 lbs./hr, 39.28 TPY; VOC to 0.98 lbs/hr, 3.07 TPY; and CO to 2.18 lbs/hr, 6.86 TPY.

Polk County Air Quality Construction Permit #2069 Modified #5 for [(EU 01-LC1, 01-LC2, 01-LC3, 01-LC4, 01-LC5, 01-LC6, 02-LC1, 02-LC2, 02-LC3, 02-LC4, 02-LC5, 02-LC6, 02-LC7, 02-LC10, 02-LC11, 03-LC1, 03-LC2, 03-LC3, 03-LC4 / EP LCf) (EU 26-LC1 / CE 26-LC1 / EP LCf) (EU 26-LC5 / CE 26-LC5 / EP LCf)]- twenty-one (21) Laser Cutters. This permit limits PM/ PM10 / PM2.5 to 0.10 lbs.hr, 0.44 TPY, 0.10 gr/dscf (per emission unit); PM/ PM10 to 9.24 TPY for all EUs combined; opacity to <20%.

Polk County Air Quality Construction Permit #2233 Modified #4 for Wet Paint Spraying Operations, consisting of (EU 02-30, 02-31, 03-03, 03-04, 03-21, 03-22, 03-23, 03-24, 03-25, 03-26, 12-05, 18-01-PB, 18-13, 18-14, 18-15, 18-12, and 18-16)}. Emission limits are as follows:
Emissions shall not exceed the following for Emission Units 02-30, 03-03, 03-04, 03-21, 12-05, 18-01-PB and 18-12:

<u>Pollutant</u>	<u>Emission Unit Number</u>	<u>lbs/hr</u>	<u>TPY</u>	<u>Concentration</u>	<u>Opacity</u>
PM/PM ₁₀ /PM _{2.5}	02-30	N/A	N/A	N/A	N/A
	03-03	1.60	1.50	0.01 grain/dscf	<20%
	03-04	N/A	N/A	N/A	N/A
	03-21	8.10	3.00	0.01 grain/dscf	<20%
	12-05	1.60	1.50	0.01 grain/dscf	<20%
	18-01-PB	6.40	3.00	0.01 grain/dscf	<20%
	18-12	1.60	1.50	0.01 grain/dscf	<20%
	VOC: Emission points comprising Wet Paint Spraying Operations per Above Source list shall not exceed 220.0 Tons per 12 month period rolled monthly.				
HAPs*: Facility wide HAP limit shall be 9.4 TPY (any single HAP), 24.4 TPY (all HAPs combined)					

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

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

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

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

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

N/A = Not Applicable

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

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

N/A = Not Applicable

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

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

N/A = Not Applicable

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

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

N/A = Not Applicable

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

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

N/A = Not Applicable

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

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

N/A = Not Applicable

Emissions shall not exceed the following for EU 18-13:

<u>Pollutant</u>	<u>lbs/hr.</u>	<u>tons/year</u>	<u>Allowable Concentration</u>
PM/PM ₁₀ /PM _{2.5}	0.07	0.31	0.10 gr/dscf
Opacity	---	---	<20 %
SO _x	0.01	0.02	0.5 lb/MMBtu
NO _x	1.14	4.98	N/A
Total VOC	0.04	0.19	---
HAP	N/A	N/A	N/A
CO	0.66	2.89	N/A

N/A = Not Applicable

Emissions shall not exceed the following for EU 18-14:

<u>Pollutant</u>	<u>lbs/hr.</u>	<u>tons/year</u>	<u>Allowable Concentration</u>
PM/PM ₁₀ /PM _{2.5}	0.07	0.31	0.10 gr/dscf
Opacity	---	---	<20 %
SO _x	0.01	0.02	0.5 lb/MMBtu
NO _x	1.14	4.98	N/A
Total VOC	0.04	0.19	---
HAP	N/A	N/A	N/A
CO	0.66	2.89	N/A

N/A = Not Applicable

Emissions shall not exceed the following for EU 18-15:

<u>Pollutant</u>	<u>lbs/hr.</u>	<u>tons/year</u>	<u>Allowable Concentration</u>
PM/PM ₁₀ /PM _{2.5}	0.07	0.31	0.10 gr/dscf
Opacity	---	---	<20 %
SO _x	0.01	0.02	0.5 lb/MMBtu
NO _x	1.14	4.98	N/A
Total VOC	0.04	0.19	---
HAP	N/A	N/A	N/A
CO	0.66	2.89	N/A

N/A = Not Applicable

Emissions shall not exceed the following for EU 18-16:

<u>Pollutant</u>	<u>lbs/hr.</u>	<u>tons/year</u>	<u>Allowable Concentration</u>
PM/PM ₁₀ /PM _{2.5}	0.07	0.31	0.10 gr/dscf
Opacity	---	---	<20 %
SO _x	0.01	0.02	0.5 lb/MMBtu
NO _x	1.14	4.98	N/A
Total VOC	0.04	0.19	---
HAP	N/A	N/A	N/A
CO	0.66	2.89	N/A

N/A = Not Applicable

Polk County #2596 for (EU Weld01 / EP Weld01f) - GMAW/SMAW Welding. This permit limits PM / PM₁₀/ PM_{2.5} to 7.80 TPY, 0.10 gr/dscf; opacity to <20%; and HAP (Manganese) to 0.48 TPY.

(EU T-59 / EP T-59) B14 Unleaded Gas Storage Tank – 6,000 gallons was applied for as insignificant. It was determined that it is subject to NESHAP Subpart CCCCCC and is therefore significant. It has been placed into the Title V permit with applicable NESHAP Subpart CCCCCC requirements.

NESHAP:

40 CFR 63- Subpart N

(EU 02-01) 1062 Chrome Plating Tank, with CE 02-01 – Composite Mesh Pad Vertical Mist Eliminator, KCH Spectr U-111-9000 & (EU 02-51) – 7153 Chrome Plating Tank, with CE02-51 – KCH Spectr U-111-9000 Composite Mesh Pad Vertical Mist Eliminator are subject to 40 CFR 63 Subpart N, National Emission Standards for Chromium Emissions from Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks. Subpart N applicable requirements have been placed into the Construction permits and transferred into the Title V permit. Subpart N web link is placed into Appendix 1 of the Title V permit.

40 CFR 63 – Subpart WWWW

National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Plating and Polishing Operations. EU 02-01 and 02-51 are not subject to this subpart because they are subject to Subpart N. EU 02-02 and EU 02-52 (electro-polishing), are not subject because they do not use any of the Subpart WWWW target HAPs: (Cr, Cd, Pb, Ni, & Mn). EU 02-02 and EU 02-52 use acids to polish a fine layer of iron off of spindles, prior to the electroplating process covered by Subpart N.

40 CFR 63 – Subpart M MMM

Emission standards for hazardous air pollutants for surface coating of miscellaneous metal parts and products. These standards apply to miscellaneous metal parts and products surface coating facilities that are a major source, are located at a major source, or are part of a major source of hazardous air pollutant emissions. A miscellaneous metal parts and products surface coating facility that is located at an area source is not subject to this standard. The facility wide HAP limit shall be 9.4 TPY (any single HAP), 24.4 TPY (all HAPs combined) by Polk County AQD Permit #2233 Modified #4. For an existing affected source, the compliance date is the date 3 years after January 2, 2004. PC #2233 Modified #4 was issued 10/9/2013, (after the 4M compliance date), and therefore the facility is subject to the “Once in, always in” policy and is subject to NESHAP M MMM. NESHAP M MMM requirements were placed into PC #2233 Modified #4 and are transferred into the Title V permit. Subpart M MMM web link is placed into Appendix 1 of the Title V permit. All paint booths, curing ovens, and painting related EUs at the facility are subject to NESHAP Subpart M MMM. This would include the paint dry-off ovens and wash heaters, as these EUs fit the description from the subpart M MMM explanation below:

§63.3881 Am I subject to this subpart?

(a) Miscellaneous metal parts and products include, but are not limited to, metal components of the following types of products as well as the products themselves: motor vehicle parts and accessories, bicycles and sporting goods, recreational vehicles, extruded aluminum structural components, railroad cars, heavy duty trucks, medical equipment, lawn and garden equipment, electronic equipment, magnet wire, steel drums, industrial machinery, metal pipes, and numerous other industrial, household, and consumer products. Except as provided in paragraph (c) of this section, the source category to which this subpart applies is the surface coating of any miscellaneous metal parts or products, as described in paragraph (a)(1) of this section, and it includes the subcategories listed in paragraphs (a)(2) through (6) of this section.

(1) Surface coating is the application of coating to a substrate using, for example, spray guns or dip tanks. When application of coating to a substrate occurs, then surface coating also includes associated activities, such as surface preparation, cleaning, mixing, and storage. However, these activities do not comprise surface coating if they are not directly related to the application of the coating. Coating application with handheld, non-refillable aerosol containers, touch-up markers, marking pens, or the application of paper film or plastic film which may be pre-coated with an adhesive by the manufacturer are not coating operations for the purposes of this subpart.

§63.3981

“*Coating operation* means equipment used to apply cleaning materials to a substrate to prepare it for coating application (surface preparation) or to remove dried coating; to apply coating to a substrate (coating application) and to dry or cure the coating after application; or to clean coating operation equipment (equipment cleaning). A single coating operation may include any combination of these types of equipment, but always includes at least the point at which a given quantity of coating or cleaning material is applied to a given part and all subsequent points in the affected source where organic HAP are emitted from the specific quantity of coating or cleaning material on the specific part. There may be multiple coating operations in an affected source. Coating application with handheld, non-refillable aerosol containers, touch-up markers, or marking pens is not a coating operation for the purposes of this subpart.”

40 CFR 63 – Subpart HHHHHH

National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources. This facility is of the regulated source category subject to this subpart. However, because the surface coating or paint stripping activities at the facility are subject to Subpart MMMM (for major HAP sources) due to the once-in-always-in policy, the requirements of Subpart HHHHHH do not apply to this facility at this time.

40 CFR 63 – Subpart XXXXXX

National Emission Standards for Hazardous Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Source Categories. This facility's NAICS code, as indicated on their application forms is 333111 (Farm Machinery and Equipment Manufacturing). This is not a regulated category in this subpart. Also, the manufacturing of agricultural equipment is not described in Table 1 of Subpart XXXXXX. Therefore, according to 40 CFR 63.11514(a), this subpart does not apply to this facility.

40 CFR 63 – Subpart PTTTT

Not applicable. Emission standards for hazardous air pollutants: engine test cells/stands. This standard applies to an engine test cell/stand that is located at a major source of HAP emissions. The Facility wide HAP limit shall be 9.4 TPY (any single HAP), 24.4 TPY (all HAPs combined) by Polk County AQD Permit #2233 Modified #4. Subpart PTTTT definition of an *Engine Test Cell/Stand* means any apparatus used for testing uninstalled stationary or uninstalled mobile (motive) engines. The facility does not test any uninstalled engines, since the engines have already been tested prior to arriving at John Deere Des Moines. The engines are only operated after being installed on the tractor equipment, in order to test the hydraulics and operability of the tractor.

40 CFR 63- Subpart ZZZZ

For *Emergency Stationary RICE with a site rating of less than or equal to 500 HP which are located at either an area or major HAP source*, Subpart ZZZZ is applicable in the following manner:

- The standards for new RICE apply if the unit commenced construction on or after June 12, 2006.
- <500 Bhp 4Z compliance date is 5/3/2013.
- (EU 16-01/EP 16-01)- 1.411 MMBtu/hr 240 Bhp Diesel Fire Pump is permitted by Polk County 1826. This permit contains the following requirements: Facility shall comply with all applicable conditions of 40 CFR Part 63 Subpart ZZZZ. The owner or operator shall operate EU 16-01 in a manner consistent with the definition of an emergency RICE per §63.6675. (PC #1826 issued 6/17/2006). This engine was installed prior to the facility status being changed from a major HAP source to an area source. Therefore, this engine is considered new emergency engine subject to ZZZZ at a major HAP source. 40 CFR §63.6590 (c)(6) states that this emergency engine must meet the requirements of Subpart ZZZZ by meeting the requirements of 40 CFR 60 Subpart IIII for compression ignition engines. No further requirements apply for this emergency engine under Subpart ZZZZ. However, per 40 CFR 60.4200 (a)(2)(ii), NSPS Subpart IIII requirements, except 40 CFR 60.4208, do not apply to this fire-pump engine because it was constructed prior to the applicability date of 7/1/2006.

- (EU 40-01 / EP 40-01) - Kohler 133 Bhp, diesel fired, emergency generator is permitted by Polk County #2526 and is subject to 40 CFR 63 Subpart ZZZZ. Applicable requirements from this subpart have been placed into PC #2526 and transferred into the Title V Permit. (PC #2526 issued 12/17/2012) NESHAP ZZZZ requires that the generator comply with NSPS III, in order to fulfill compliance with NESHAP ZZZZ.
- The standards for existing RICE apply if the unit commenced construction before June 12, 2006.
- (EU 2X-Gen / EP 2X-Gen) is [20 kW (26.8 HP); Installed 3/30/1995; natural gas or propane fired; major SI< 500 HP compliance date is 10/19/2013; HAP synthetic minor date is 4/24/2013; ∴ this is an area existing source not subject to NSPS JJJJ. NESHAP ZZZZ requirements have been placed into the Title V permit.
- (EU 10-Gen / EP 10-Gen) is [51 kW (68.4 HP); Installed 10/28/2005; natural gas or propane fired; major SI< 500 HP compliance date is 10/19/2013; HAP synthetic minor date is 4/24/2013; ∴ this is an area existing source not subject to NSPS JJJJ. NESHAP ZZZZ requirements have been placed into the Title V permit.
- (EU 57-Gen / EP 57-Gen) is [24 kW (32.2 HP); Installed 8/14/1996; natural gas or propane fired; major SI< 500 HP compliance date is 10/19/2013; HAP synthetic minor date is 4/24/2013; ∴ this is an area existing source not subject to NSPS JJJJ. NESHAP ZZZZ requirements have been placed into the Title V permit.

Subpart ZZZZ web link is placed into Appendix 1 of the Title V permit.

40 CFR 63 Subpart DDDDD- National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters.

An existing process heater/ boiler is one which was built or installed before 6/4/2010. These have a compliance date of 1/31/2016. A new process heater/ boiler is one built or installed 6/4/2010 or after, and these have a compliance date of 1/31/2013. John Deere was HAP major until 4/24/2013, when it took HAP synthetic minor limits, (9.4 TPY (single HAP) and 24.4 TPY (combined HAP)).

- (EU 02-35 /EP 02-35) is not subject to Subpart DDDDD. It was installed in June 2008 and is an existing process heater, and not subject to once in/ always in, since the HAP synthetic minor limitations were taken before the compliance date (1/16/2016). Applicable requirements from Subpart DDDDD were placed into PC #2032 Modified, but are not transferred into the Title V permit because Subpart DDDDD no longer applies to EU 02-35. PC #2032 Modified should be modified in the future to remove the Subpart DDDDD requirements.
- (EU 02-38 / EP 02-38) is not subject to Subpart DDDDD. It was installed in 1970 and is an existing 400 Bhp boiler, and not subject to once in/ always in, since the HAP synthetic minor limitations were taken before the compliance date (1/16/2016). Applicable requirements from Subpart DDDDD were placed into PC #2518 Modified, but are not transferred into the Title V permit because Subpart DDDDD no longer applies to EU 02-38. PC #2518 Modified should be modified in the future to remove the Subpart DDDDD requirements.

- (EU 02-39 / EP 02-39) is not subject to Subpart DDDDD. It was installed in 1970 and is an existing 400 Bhp boiler, and not subject to once in/ always in, since the HAP synthetic minor limitations were taken before the compliance date (1/16/2016). Applicable requirements from Subpart DDDDD were placed into PC #2516, but are not transferred into the Title V permit because Subpart DDDDD no longer applies to EU 02-39. PC #2516 should be modified in the future to remove the Subpart DDDDD requirements.
- (EU 03-02 / EP 03-02) is not subject to Subpart DDDDD. It was installed in 1970, modified in 1977, and is an existing 300 Bhp boiler, not subject to once in/ always in, since the HAP synthetic minor limitations were taken before the compliance date (1/16/2016). Applicable requirements from Subpart DDDDD were placed into PC #2517, but are not transferred into the Title V permit because Subpart DDDDD no longer applies to EU 03-02. PC #2517 should be modified in the future to remove the Subpart DDDDD requirements.

40 CFR 63 Subpart JJJJJ

Per 63.11195 gas (only) boilers are not subject to Subpart 6J. John Deere's boilers are natural gas and/ or propane fired, and hence not subject to 6J.

40 CFR 63 Subpart CCCCC

(EU T-59 / EP T-59) B14 Unleaded Gas Storage Tank – 6,000 gallons

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

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

Subpart CCCCC web link is placed into Appendix 1 of the Title V permit.

NSPS:

NSPS Subpart IIII

(EU 40-01 / EP 40-01) [133 HP, installed 12/17/2012, diesel fired, major compliance date 12/17/2012, major new emergency CI < 500 HP] is permitted by Polk County #2526 and is subject to 40 CFR 60 Subpart IIII. Applicable requirements from this subpart have been placed into PC #2526 and transferred into the Title V Permit. NSPS Subpart IIII web link is placed into Appendix 1 of the Title V permit. The generator was built during a timeframe when EPA allowed emission limits to be complied with taken from §89.112, (Table 2, Family of Generators). This satisfies and fulfills NSPS Subpart IIII emission limit requirements.

(EU 16-01 / EP 16-01) is not an affected source for NSPS IIII, per Table 3 to Subpart IIII of Part 60— Certification Requirements for Stationary Fire Pump Engines. It was installed 6/17/2006, and is sized at 240 BHP. Table 3 states that fire pumps of this size, model year 2009 or newer, must comply according to §60.4202(d).

NSPS Subpart JJJJ

- (EU 2X-Gen / EP 2X-Gen) is [20 kW (26.8 HP); Installed 3/30/1995; natural gas or propane fired; major SI< 500 HP compliance date is 10/19/2013; HAP synthetic minor date is 4/24/2013; ∴ this is an area existing source not subject to NSPS JJJJ. NESHAP ZZZZ requirements have been placed into the Title V permit.
- (EU 10-Gen / EP 10-Gen) is [51 kW (68.4 HP); Installed 10/28/2005; natural gas or propane fired; major SI< 500 HP compliance date is 10/19/2013; HAP synthetic minor date is 4/24/2013; ∴ this is an area existing source not subject to NSPS JJJJ. NESHAP ZZZZ requirements have been placed into the Title V permit.
- (EU 57-Gen / EP 57-Gen) is [24 kW (32.2 HP); Installed 8/14/1996; natural gas or propane fired; major SI< 500 HP compliance date is 10/19/2013; HAP synthetic minor date is 4/24/2013; ∴ this is an area existing source not subject to NSPS JJJJ. NESHAP ZZZZ requirements have been placed into the Title V permit.

PSD:

The facility is currently minor for PSD purposes.

Title IV:

Not Applicable.

STRATOSPHERIC OZONE:

The only ozone depleting chemicals regulated by 40 CFR 82, at the facility are those used for the air conditioning.

Monitoring Considerations:

OPACITY:

The numerous particulate sources at this facility have a good history of compliance with controls placed on the majority of the EUs. Opacity is being used as an indicator of that compliance with action required for the failure of the equipment to control emissions. The EP's 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 exceeding the prescribed threshold 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.

The EU's & EP's that have these requirements are: (EU 01-28/EP 01-28)(EU 02-01/EP 02-01)(EU 02-02/CE 02-02/EP 02-02)(EU 02-44/CE 02-44/EP 02-44) (EU 02-47/EP 02-60) (EU 02-51/EP 02-51) (EU 02-52/CE 02-52/EP 02-52)(EU 11-10/EP 11-09, 11-10, 11-11) (EU 11-12/EP 11-12) (EU 16-01/EP 16-01) (EU 40-01/EP 40-01) (EU CT-02X/EP CT-02X) (EU CT-02/EP CT-02) {EP 02-18 thru 02-26, 02-31, 02-61, 03-03, 03-06, 03-07, 03-08, 03-15, 03-20, 04-01, 03-21, 03-22, 03-24, 03-25, 03-36, 03-37, 12-05, 18-01 thru 18-12, 18-20, and 18-13 thru 18-16}.

CAM & Monitoring Considerations:

(EU 01-28 / EP 01-28):

PM controlled PTE= (4146 acfm)(60 min/hr)(0.002 Gr/ft³)(1 lb/7000 gr)= 0.0711 lb./hr. = 0.3113 TPY PM/PM10. (controlled minor)

PM uncontrolled PTE= (0.3113 TPY)/(1-0.99)= 31.13 TPY PM (uncontrolled significant).

PM10 uncontrolled PTE= (0.3113 TPY)/(1-0.95)=6.23 TPY PM10 (uncontrolled minor).

Under the DNR Monitoring Policy, a Facility O&M Plan is required for PM. CAM not required.

(EU 02-01 / CE 02-01 / EP 02-01):

PM controlled PTE= 3.45 TPY PM/PM10 (controlled minor)

PM uncontrolled PTE=(3.45 TPY)(1/1-0.90)= 34.5 TPY PM/PM10 (uncontrolled significant). A Facility O&M Plan is prescribed by DNR Monitoring Guidance Policy. CAM not required.

Cr controlled PTE= 0.0018 TPY (Permit #0890 Modified). Using 95% confidence spreadsheet with stack test results yields 3.689x10⁻⁵ lb/hr, which equals 2x10⁻⁴ TPY Cr (controlled minor). Using 99.96% control efficiency for CE 02-01 equates to 0.4039 TPY Cr (uncontrolled minor). Monitoring compliance with 40 CFR 63 Subpart N will meet the monitoring requirements for EU 02-01.

EP 02-01 & EP 02-51 are subject to 40 CFR 63 Subpart N with the following work practice standards. EP 02-01 completed the initial stack test (Method 306) on November 5, 1996 and EP 02-51 completed the initial stack test (Method 306) on May 1, 1998 thus establishing pressure drops for the control equipment as required in 40 CFR 63.343(c)(1)(ii).

Summary of Work Practice Standards For EP02-01/EU 02-01 & EU 02-51/EP 02-51:

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 closet 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 two (2) inches of water column of pressure drop value established during the initial performance test.	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.

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. <i>(Due March 31 and September 30 each year to Polk County AQD.)</i>

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

The pressure drop across the composite mesh-pad (CMP) system (CE 02-01) on #1062 Chrome plating tank shall be observed and recorded once per day. The pressure drop across the composite mesh-pad (CMP) system (CE 02-01) on #1062 Chrome plating tank shall be operated within ± 2 inches of water column of the pressure drop value established during the initial performance test (*1.89 inches of water column*). If the pressure drop exceeds plus or minus two (2) inches of water column of pressure drop value established during the 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, and observer's signature. The log book will be maintained on site for 5 years and be made available to representatives of Polk County Air Quality Division upon request.

The initial performance test was conducted and passed on November 5, 1996. Test Method used – 40 CFR 63.344, Reference Method 306 with authority for requirement - 40 CFR 63 Subpart N. *(Result was 1.89 inches of water column)*

The pressure drop across the composite mesh-pad (CMP) system (CE 02-51) on #7153 Chrome Plating Tank shall be observed and recorded once per day. The pressure drop across the composite mesh-pad (CMP) system (CE 02-51) on #7153 Chrome Plating Tank shall be operated within ± 2 inches of water column of the pressure drop value established during the initial performance test *(3.20 inches of water column)*. If the pressure drop exceeds plus or minus two (2) inches of water column of pressure drop value established during the 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, and observer's signature. The log book will be maintained on site for 5 years and be made available to representatives of Polk County Air Quality Division upon request.

The initial performance test was conducted and passed on May 1, 1998. Test Method used – 40 CFR 63.344, Reference Method 306 with authority for requirement - 40 CFR 63 Subpart N. *(Result was 3.20 inches of water column)*

Facility Maintained Operation & Maintenance Plan Required? Yes No

40 CFR 63.342 (f)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(EU 02-02 / CE 02-02 / EP 02-02):

PM controlled PTE= 1.36 TPY PM/PM10 (controlled minor)

PM uncontrolled PTE=(1.36 TPY)(1/1-0.90)= 13.6 TPY PM/PM10 (uncontrolled minor). No additional monitoring is required under DNR Monitoring Guidance Policy. CAM not required.

(EU 02-10 / EP 02-P10)

PC# 2273 limits PM/ PM10 to 0.31 lbs.hr, 1.32 TPY, 0.10 gr/dscf; opacity to <20%; SOx to 0.65 lbs/hr, 2.83 TPY, 500 ppmv; NOx to 5.60 lbs./hr, 24.52 TPY; VOC to 0.44 lbs/hr, 1.89 TPY; and CO to 3.25 lbs/hr, 14.21 TPY. (all pollutants are uncontrolled minor). No additional monitoring is required under DNR Monitoring Guidance Policy. Opacity monitoring is not warranted, since natural gas and propane are not known to produce opacity when combusted. CAM not required.

(EU 02-32 / EP 02-32, 02-37)

PC# 1827 Modified limits PM/ PM10 to 0.03 lbs.hr, 0.13 TPY, 0.10 gr/dscf; opacity to <20%; SOx to 0.01 lbs/hr, 0.01 TPY, 500 ppmv; NOx to 0.57 lbs./hr, 2.50 TPY; VOC to 0.02 lbs/hr, 0.09 TPY; and CO to 0.33 lbs/hr, 1.45 TPY. (all pollutants are uncontrolled minor). No additional monitoring is required under DNR Monitoring Guidance Policy. Opacity monitoring is not warranted, since natural gas and propane are not known to produce opacity when combusted. CAM not required.

(EP 02-35/EU 02-35)

Polk County #2032 Modified limits PM/ PM10 to 0.09 lbs.hr, 0.39 TPY, 0.10 gr/dscf; opacity to <20%; SOx to 0.01 lbs/hr, 0.03 TPY, 500 ppmv; NOx to 1.51 lbs./hr, 6.61 TPY; VOC to 0.06 lbs/hr, 0.25 TPY; and CO to 0.87 lbs/hr, 3.81 TPY. (all pollutants are uncontrolled minor). No additional monitoring is required under DNR Monitoring Guidance Policy. Opacity monitoring is not warranted, since natural gas and propane are not known to produce opacity when combusted. CAM not required.

(EP02-38/EU 02-38)

Polk County # 2518 Modified PM/ PM10 to 0.12 lbs.hr, 0.51 TPY, 0.10 gr/dscf; opacity to <20%; SOx to 0.01 lbs/hr, 0.03 TPY, 500 ppmv; NOx to 1.90 lbs./hr, 8.34 TPY; VOC to 0.07 lbs/hr, 0.325 TPY; and CO to 1.10 lbs/hr, 4.83TPY. A facility wide CO2e limit is placed in PC# 2518 Modified of 94,000 TPY. (all pollutants are uncontrolled minor). No additional monitoring is required under DNR Monitoring Guidance Policy. Opacity monitoring is not warranted, since natural gas and propane are not known to produce opacity when combusted. CAM not required.

(EU 02-39 / EP 02-39)

Polk County # 2516 limits PM/ PM10 to 0.12 lbs.hr, 0.51 TPY, 0.10 gr/dscf; opacity to <20%; SOx to 0.01 lbs/hr, 0.03 TPY, 500 ppmv; NOx to 1.90 lbs./hr, 8.34 TPY; VOC to 0.07 lbs/hr, 0.32 TPY; and CO to 1.10 lbs/hr, 4.83TPY. (all pollutants are uncontrolled minor). No additional monitoring is required under DNR Monitoring Guidance Policy. Opacity monitoring is not warranted, since natural gas and propane are not known to produce opacity when combusted. CAM not required.

(EU 02-40/EP 02-40)

Polk County # 0902 limits PM/ PM10 to 0.00497 lbs.hr, 0.0218 TPY; opacity to No Visible Emissions; SOx to 0.00025 lbs/hr, 0.0011 TPY; NOx to 0.04140 lbs./hr, 0.1813 TPY; VOC to 0.00219 lbs/hr, 0.0096 TPY; and CO to 0.00869 lbs/hr, 0.0381TPY. (all pollutants are uncontrolled minor). No additional monitoring is required under DNR Monitoring Guidance Policy. Opacity monitoring is not warranted, since natural gas is not known to produce opacity when combusted. CAM not required.

(EU 02-44/ CE 02-44 / EP 02-44)

Polk County #0903 Modified #2 for the Surface Combustion 0.1 MMBtu/hr 6346 Temper Furnace (D39) Combusting Natural Gas or Propane limits PM/ PM10 to 0.001 lbs.hr, 0.004 TPY, 0.10 gr/dscf; opacity to <20%; SOx to 0.001 lbs/hr, 0.001 TPY, 500 ppmv; NOx to 0.014 lbs./hr, 0.062 TPY; VOC to 0.001 lbs/hr, 0.002 TPY; and CO to 0.008 lbs/hr, 0.036TPY. (all pollutants are uncontrolled minor).The furnace is direct fired. The permit limits are equal to the design capacity of the equipment and it therefore will not be monitored. Work practice standards shall include routine maintenance and inspection. Opacity monitoring shall be required once a week, utilizing the Method 22 like standard requirement, where a Method 9 observation is required if any VEs are observed. CAM not required.

(EU 02-47/EP 02-60)

Polk County # 1740 Modified limits PM/ PM10 to 0.00001 lbs.hr, 0.000003 TPY, 0.01 gr/dscf; opacity to no visible emissions; SOx to 500 ppmv; NOx to 0.0001 lbs./hr, 0.00044 TPY; VOC to 0.00001 lbs/hr, 0.00002 TPY; and CO to 0.00008 lbs/hr, 0.00037 TPY. (all pollutants are uncontrolled minor). No additional monitoring is required under DNR Monitoring Guidance Policy. Opacity monitoring is not warranted, since natural gas is not known to produce opacity when combusted. CAM not required.

(EU 02-51/CE 02-51 / EP 02-51)

PM controlled PTE= 5.03 TPY PM/PM10 (controlled minor)

PM uncontrolled PTE= (5.03 TPY)(1/1-0.90)= 50.3 TPY PM/PM10 (uncontrolled significant). A Facility O&M Plan is prescribed by DNR Monitoring Guidance Policy. 40 CFR 63 Subpart N requires the O&M Plan list below. CAM not required.

Facility Maintained Operation & Maintenance Plan Required? Yes No

40 CFR 63.342 (f)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(EU 02-52/CE 02-52 / EP 02-52)

PM controlled PTE= 0.9898 TPY PM/PM10 (controlled minor)

PM uncontrolled PTE= (0.9898 TPY)(1/1-0.90)= 9.898 TPY PM/PM10 (uncontrolled minor). No tests or O&M Plans are prescribed by DNR Monitoring Guidance Policy. CAM not required.

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

PM/ PM10 controlled PTE = 0.44 TPY (controlled minor);

PM uncontrolled PTE= (0.44 TPY)(1/1-0.90)= 4.40 TPY PM/PM10 (uncontrolled minor). No tests or O&M Plans are prescribed by DNR Monitoring Guidance Policy. CAM not required. EP is internally vented; therefore no opacity monitoring is warranted.

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

PM/ PM10 controlled PTE = 0.44 TPY (controlled minor);

PM uncontrolled PTE= (0.44 TPY)(1/1-0.90)= 4.40 TPY PM/PM10 (uncontrolled minor). No tests or O&M Plans are prescribed by DNR Monitoring Guidance Policy. CAM not required. EP is internally vented; therefore no opacity monitoring is warranted.

(EU 3-02 / EP 3-02)

Polk County #2517 limits PM/ PM10 to 0.09 lbs.hr, 0.38 TPY, 0.10 gr/dscf; opacity to <20%; SOx to 0.01 lbs/hr, 0.03 TPY, 500 ppmv; NOx to 1.43 lbs./hr, 6.25 TPY; VOC to 0.05 lbs/hr, 0.24 TPY; and CO to 0.83 lbs/hr, 3.62TPY. (all pollutants are uncontrolled minor). No additional monitoring is required under DNR Monitoring Guidance Policy. Opacity monitoring is not warranted, since natural gas and propane are not known to produce opacity when combusted. CAM not required.

(EU 03-27/EP 03-27)

George Koch & Sons 4 MMBtu/hr Washer Dry Off Oven is permitted by Polk County # 1825 Modified. This permit limits PM/ PM10 to 0.03 lbs.hr, 0.13 TPY, 0.10 gr/dscf; opacity to <20%; SOx to 0.01 lbs/hr, 0.01 TPY, 500 ppmv; NOx to 0.57 lbs./hr, 2.50 TPY; VOC to 0.02 lbs/hr, 0.09 TPY; and CO to 0.33 lbs/hr, 1.45TPY. (all pollutants are uncontrolled minor). No additional monitoring is required under DNR Monitoring Guidance Policy. Opacity monitoring is not warranted, since natural gas and propane are not known to produce opacity when combusted. CAM not required.

(EU 03-30 / EP 03-30)

Immersol Jet Burner: Washer- Heat Stage 1B is permitted by Polk County #1608 Modified #2. This permit limits PM/ PM10 to 0.03 lbs.hr, 0.13 TPY, 0.10 gr/dscf; opacity to <20%; SOx to 0.01 lbs/hr, 0.01 TPY, 500 ppmv; NOx to 0.51 lbs./hr, 2.23 TPY; VOC to 0.02 lbs/hr, 0.09 TPY; and CO to 0.30 lbs/hr, 1.31TPY. (all pollutants are uncontrolled minor). No additional monitoring is required under DNR Monitoring Guidance Policy. Opacity monitoring is not warranted, since natural gas and propane are not known to produce opacity when combusted. CAM not required.

(EU 03-31 / EP 03-31)

Immersol Jet Burner: Washer- Heat Stage 1A is permitted by Polk County #1608 Modified #2. This permit limits PM/ PM10 to 0.03 lbs.hr, 0.13 TPY, 0.10 gr/dscf; opacity to <20%; SOx to 0.01 lbs/hr, 0.01 TPY, 500 ppmv; NOx to 0.51 lbs./hr, 2.23 TPY; VOC to 0.02 lbs/hr, 0.09 TPY; and CO to 0.30 lbs/hr, 1.31TPY. (all pollutants are uncontrolled minor). No additional monitoring is required under DNR Monitoring Guidance Policy. Opacity monitoring is not warranted, since natural gas and propane are not known to produce opacity when combusted. CAM not required.

(EU 11-08 / CE 11-08 / EP 11-08)

Centro Plastic Storage Silo, with Camcorp Model 3125 Silo Bin Vent Dust Collector is permitted by Polk County Air Quality Construction Permit # 2088. This permit requires emission limits for PM/ PM10 to 0.09 lbs.hr, 0.38 TPY, 0.01 gr/dscf; and opacity to <20%. (PM/ PM10 controlled minor) Uncontrolled PM/ PM10 PTE is 3.8 TPY (uncontrolled minor). No additional monitoring is required under DNR Monitoring Guidance Policy for PM/ PM10. Opacity monitoring will be required every time the silo is filled, rather than once per week, since the silo is filled approximately 2 times per month. The standard no observable VE check will be required, with Method 9 required if any VEs are observed when filling. CAM not required.

(EU 11-09 / EP 11-09)

Rotational Engineering Model CH130 4.5 MMBtu/hr Rotomold Oven combusting Natural Gas or Propane is permitted by Polk County Air Quality Construction Permit #1830 Modified. This permit limits PM/ PM10 to 0.04 lbs.hr, 0.18 TPY, 0.10 gr/dscf; opacity to <20%; SOx to 0.01 lbs/hr, 0.01 TPY, 500 ppmv; NOx to 0.64 lbs./hr, 2.80 TPY; VOC to 0.03 lbs/hr, 0.13 TPY; and CO to 0.37 lbs/hr, 1.62TPY. (all pollutants are uncontrolled minor). No additional monitoring is required under DNR Monitoring Guidance Policy. Opacity monitoring is not warranted, since natural gas and propane are not known to produce opacity when combusted. CAM not required.

(EU 11-10 / EP 11-09, 11-10, & 11-11)

Rotational Engineering Model CH130, 700 lb/hr Rotomold Machine is permitted by Polk County Air Quality Construction Permit #1829. This permit limits PM/ PM10 to 0.04 lbs.hr, 0.20 TPY, 0.10 gr/dscf; opacity to No Visible Emissions; VOC to 0.08 lbs/hr, 0.34 TPY; Cadmium to 0.04 lbs./ hr, 0.20 TPY; Antimony to 0.04 lbs./ hr, 0.20 TPY; and Chromium to 0.04 lbs./ hr, 0.20 TPY. (all pollutants are uncontrolled minor). No additional monitoring is required under DNR Monitoring Guidance Policy. Opacity monitoring will be required once a week, to verify the No Visible Emissions allowed requirement. CAM not required.

(EU 11-12/EP 11-12)

Flame Cut Table is permitted by Polk County Air Quality Construction Permit # 0833 Modified. This permit limits PM/ PM₁₀ to 0.01 ton/year, 0.10 gr/dscf; SOx to 0.01 ton/year, 500 ppmv; NOx to 0.01 ton/year; VOC to 0.01 ton/year; CO to 0.01 ton/year; and opacity of <20%. (all pollutants are uncontrolled minor). No additional monitoring is required under DNR Monitoring Guidance Policy. Opacity monitoring shall be required once a week, utilizing the Method 22 like standard requirement, where a Method 9 observation is required if any VEs are observed. CAM not required.

[(EU 11-13 / EP 11-13, 11-14)(EU 11-15 / EP 11-15)]

500 lb/hr Ovenpak LE Rotomold Machine Oven with 4.5 MMBtu/hr, Maxon Low Emission Burners combusting natural gas or propane (EU 11-15/ EP 11-15), and Rotomold Pre-cool and Cooling Chambers (EU 11-13 / EPs 11-13, 11-14) is permitted by Polk County Air Quality Construction Permit # 2334. This permit requires emission limits for PM/ PM10 to 0.07 lbs.hr, 0.31 TPY, 0.10 gr/dscf; opacity to <20%; SOx to 0.01 lbs/hr, 0.01 TPY, 500 ppmv, 0.5 lb./MMBtu; NOx to 0.64 lbs./hr, 2.80 TPY; VOC to 0.04 lbs/hr, 0.17 TPY; and CO to 0.37 lbs/hr, 1.62TPY. (all pollutants are uncontrolled minor). No additional monitoring is required under DNR Monitoring Guidance Policy. Opacity monitoring is not warranted, since natural gas and propane are not known to produce opacity when combusted. CAM not required.

(EU 16-01/EP 16-01)

is permitted by Polk County # 1826 for the Building 16 Clarke Model JU6H-UF60 1.411 MMBtu/hr 240 Bhp Diesel Fire Pump. This permit limits PM/ PM10 to 0.44 lbs.hr, 1.91 TPY; opacity to no visible emissions; SOx to 0.41 lbs.hr, 1.79 TPY; NOx to 6.22 lbs./hr, 27.24 TPY; VOC to 0.49 lbs/hr, 2.16 TPY; and CO to 1.34 lbs/hr, 5.87 TPY. (all pollutants are uncontrolled minor). No additional monitoring is required under DNR Monitoring Guidance Policy. Opacity monitoring shall be required once every time the fire pump (EU 16-01) is operated, by a designated observer, utilizing the Method 22 like standard requirement, where any VEs observed is a violation. This alteration of the standard language requirement is necessary, since the unit is an emergency fire pump which would be operated only during a fire or for maintenance purposes. CAM not required.

(EU 18-01-OVEN / EP 18-18)

Schweitzer 5.6 MMBtu/hr Building 18 Spray Paint Booth Oven Combusting Natural Gas or Propane is permitted by Polk County #1831 Modified. This permit limits PM/ PM10 to 0.05 lbs.hr, 0.22 TPY, 0.10 gr/dscf; opacity to <20%; SOx to 0.01 lbs.hr, 0.01 TPY, 500 ppmv; NOx to 0.80 lbs./hr, 3.50 TPY; VOC to 0.03 lbs/hr, 0.13 TPY; and CO to 0.46 lbs/hr, 2.02 TPY. (all pollutants are uncontrolled minor). No additional monitoring is required under DNR Monitoring Guidance Policy. Opacity monitoring is not warranted, since natural gas and propane are not known to produce opacity when combusted. CAM not required.

(EU 18-17 / EP 18-17)

4 MMBtu/hr Building 18 Paint Booth Dry Off Oven Combusting Natural Gas or Propane is permitted by Polk County Air Quality Construction Permit 1531 Modified #2. This permit limits PM/ PM10 to 0.03 lbs.hr, 0.13 TPY, 0.10 gr/dscf; opacity to <20%; SOx to 0.01 lbs.hr, 0.01 TPY, 500 ppmv; NOx to 0.57 lbs./hr, 2.50 TPY; VOC to 0.02 lbs/hr, 0.09 TPY; and CO to 0.33 lbs/hr, 1.45 TPY. (all pollutants are uncontrolled minor). No additional monitoring is required under DNR Monitoring Guidance Policy. Opacity monitoring is not warranted, since natural gas and propane are not known to produce opacity when combusted. CAM not required.

(EU 26-01 / CE 26-01 / EP 26-01)

7377 Wheelabrator Shot Blast (EU 26-01), with 7377 Torit Model DFT3-12 Dust Collector (CE 26-01) is permitted by Polk County Air Quality Construction Permit #1816. This permit limits PM/ PM10 to 0.002 lbs.hr, 0.01 TPY (controlled minor), 0.10 gr/dscf; opacity to No Visible Emissions. (uncontrolled minor: 0.01 TPY / (1-0.90)= 0.10 TPY). No additional monitoring is required under DNR Monitoring Guidance Policy. Opacity monitoring will be required once a week, to verify the No Visible Emissions allowed requirement. CAM not required.

(EU 26-02 / CE 26-02 / EP 26-02)

Building 26 tube blow out booth (EU 26-02), with Torit Model ECB-31332 Baghouse (CE 26-02) is permitted by Polk County Air Quality Construction Permit #2123. This permit limits PM/ PM10 to 0.09 lbs.hr, 0.38 TPY, 0.01 gr/dscf. (all pollutants are controlled minor). PM/ PM10 uncontrolled PTE is 3.8 TPY (uncontrolled minor). No additional monitoring is required under DNR Monitoring Guidance Policy. Opacity monitoring is not warranted, since EP 26-02 is required to be vented internally and there is no opacity limit. CAM not required.

(EU 40-01 / EP 40-01)

Kohler 133 Bhp, diesel fired, Emergency Generator is permitted by Polk County Air Quality Construction Permit #2526. This permit limits PM/ PM10 to 0.26 lbs.hr, 0.07 TPY, 1.2 gram/ kW-hr; opacity to <20%; SOx to 0.27 lbs.hr, 0.07 TPY, 0.5 gram/ kW-hr; NMHC + NOx to 1.44 lbs./hr, 0.36 TPY, 6.6 gram/ kW-hr; and CO to 0.89 lbs/hr, 0.22 TPY. EU 40-01 is subject to 40 CFR 60 Subpart III and 40 CFR 63 Subpart ZZZZ. Applicable requirements from these subparts have been placed into PC #2526 and transferred into the Title V Permit. Compliance with these subparts ensures sufficient monitoring for this EU. Opacity monitoring shall be required once every time the emergency generator (EU 40-01) is operated, by a designated observer, utilizing the Method 22 like standard requirement. This alteration of the standard language requirement is necessary, since the unit is an emergency generator which would be operated only during an emergency, or for maintenance purposes. CAM not required.

(EU 2X-Gen / EP 2x-Gen: 7083 B2X Back-up Generator – 0.068 mmBtu/hr (20 kw) (26.8 HP)), (EU 10-Gen / EP 10-Gen: 7705 B10 Back-up Generator for Lift Stations- 0.167 mmBtu/hr (51 kw) (68.4 HP)), (EU 57-Gen / EP 57-Gen: 7201 B57 Back-up Generator– 0.082 mmBtu/hr (24 kw) (32.2 HP))

were applied for as insignificant. It was determined that are subject to NESHAP Subpart ZZZZ and are therefore significant. They have been placed into the Title V permit with applicable NESHAP Subpart ZZZZ requirements. Each generator has uncontrolled minor PTE for all pollutants, (see PTE spreadsheet). Subpart ZZZZ has monitoring sufficient to ensure compliance with itself. Opacity monitoring is not warranted, since natural gas and propane are not known to produce opacity when combusted. CAM not required.

(EU CT-02X / EP CT-02X)

Marley Model 047306/A92522A 86 gallon/minute Cooling Tower is permitted by Polk County Air Quality Construction Permit #2087. This permit limits PM/ PM10 to 0.044 lbs.hr, 0.19 TPY, 0.01 gr/dscf; opacity to <20%. (all pollutants are uncontrolled minor). No additional monitoring is required under DNR Monitoring Guidance Policy. Opacity monitoring shall be required once a week, utilizing the Method 22 like standard requirement, where a Method 9 observation is required if any VEs are observed. CAM not required.

(EU CT-02 / EP CT-02)

Marley Model AQ495M1SAF Cooling Tower is permitted by Polk County Air Quality Construction Permit #2527. This permit limits PM to 0.01 lbs.hr, 0.04 TPY, 0.01 gr/dscf; PM10 to 0.01 lbs.hr, 0.02 TPY, 0.01 gr/dscf; opacity to <20%. (all pollutants are uncontrolled minor). No additional monitoring is required under DNR Monitoring Guidance Policy. Opacity monitoring shall be required once a week, utilizing the Method 22 like standard requirement, where a Method 9 observation is required if any VEs are observed. CAM not required.

(EU F01-01; F01-02; F01-03 / EP JAN-FUG; PW-FUG; HAP-FUG)

Exempt from construction permitting. These are fugitive VOC and HAP emissions related to plant wide janitorial and maintenance activities. There are no applicable rules or limits at this time. This emission group does not qualify as insignificant for Title V, due to PTE. Facility calculated an uncontrolled PTE of 7.47 TPY VOC and 0.23 TPY HAP (combined). (all pollutants are uncontrolled minor). No additional monitoring is required under DNR Monitoring Guidance Policy. CAM not required.

[(EU 02-G1 / CE 02/G1 / EP 02-G1) (EU 02-G2A, 02-G2B, 02-G2C, 02-G2D / CE 02-G2 / EP 02-G2) (EU 02-G3A, 02-G3B, 02-G3C / CE 02-G3 / EP 02-G3) (EU 02-G4 / CE 02-G4 / EP 02-G4) (EU 02-G5 / CE 02-G5 / EP 02-G5) (EU 02-G6 / CE 02-G6 / EP 02-G6) (EU 02-G7 / CE 02-G7 / EP 02-G7)]

Building 2 Grinders and Machining Centers is permitted by Polk County Air Quality Construction Permit #2122. This permit limits: (EP 02-G1 PM/ PM₁₀ to 0.10 lbs.hr, 0.44 TPY, 0.01 gr/dscf); (EP 02-G2 PM/ PM₁₀ to 0.13 lbs.hr, 0.57 TPY, 0.01 gr/dscf); (EP 02-G3 PM/ PM₁₀ to 0.13 lbs.hr, 0.57 TPY, 0.01 gr/dscf); (EP 02-G4 PM/ PM₁₀ to 0.08 lbs.hr, 0.35 TPY, 0.01 gr/dscf); (EP 02-G5 PM/ PM₁₀ to 0.08 lbs.hr, 0.35 TPY, 0.01 gr/dscf); (EP 02-G6 PM/ PM₁₀ to 0.06 lbs.hr, 0.26 TPY, 0.01 gr/dscf); and (EP 02-G7 PM/ PM₁₀ to 0.06 lbs.hr, 0.26 TPY, 0.01 gr/dscf). (all pollutants are uncontrolled minor) No additional monitoring is required under DNR Monitoring Guidance Policy. Opacity monitoring is not warranted, since Building 2 Grinders and Machining Centers EPs are required to be vented internally and there is no opacity limit. CAM not required.

(EU 18-1801 / EP Engine Exhausts)

Engine Exhaust Stations – Multiple Exhaust Pick-ups (62), Engine Maximum 1,000 hp (44.0 gallon/hr per *exhaust* station) is permitted by Polk County Air Quality Construction Permit #1606 Modified #2. This permit limits PM/ PM₁₀ to 1.92 lbs.hr, 6.05 TPY, 0.10 gr/dscf; opacity to <20%; SO_x to 0.30 lbs.hr, 0.94 TPY, 500 ppmv; NO_x to 12.48 lbs./hr, 39.28 TPY; VOC to 0.98 lbs/hr, 3.07 TPY; and CO to 2.18 lbs/hr, 6.86 TPY. (all pollutants are uncontrolled minor) No additional monitoring is required under DNR Monitoring Guidance Policy. Opacity monitoring is not warranted, since there are 62 individual engine exhaust points that comprise EP Engine Exhausts, and monitoring them would be excessively time consuming. In addition, the 62 exhaust points are operated intermittently for short periods of time for testing of engines. CAM not required.

[(EU 01-LC1, 01-LC2, 01-LC3, 01-LC4, 01-LC5, 01-LC6, 02-LC1, 02-LC2, 02-LC3, 02-LC4, 02-LC5, 02-LC6, 02-LC7, 02-LC10 / CE 02-LC10, 02-LC11, 03-LC1, 03-LC2, 03-LC3, 03-LC4 / EP LCF) (EU 26-LC1 / CE 26-LC1 / EP LCF) (EU 26-LC5 / CE 26-LC5 / EP LCF)]

Twenty-one (21) Laser Cutters is permitted by Polk County Air Quality Construction Permit #2069 Modified #5. This permit limits PM/ PM₁₀ / PM_{2.5} to 0.10 lbs.hr, 0.44 TPY, 0.10 gr/dscf (per emission unit); PM/ PM₁₀ to 9.24 TPY for all EUs combined; opacity to <20%. (controlled minor). All Laser Cutters emit fugitively into the building. Three of the 21 Laser Cutters are controlled, ∴ uncontrolled PM/ PM₁₀ PTE = $(9.24 - (0.44 * 3)) + ((0.44 * 3) / (1-0.90)) = 21.12$ TPY PM/ PM₁₀ / PM_{2.5}. (uncontrolled minor PM, uncontrolled significant PM₁₀). A Facility O&M Plan and no tests are called for by DNR Monitoring Guidance Policy. The Facility O&M Plan will not be required however, since the uncontrolled significant PTE is based on the Laser Cutters in aggregate, not individual Laser Cutter. The 3 individual Laser Cutters with control each have an uncontrolled PTE of 4.40 TPY PM/ PM₁₀, / PM_{2.5} (uncontrolled minor). CAM not required. Opacity Monitoring is not warranted, since the EUs emit fugitively into the building.

Wet Paint Spraying Operations, consisting of (EU 02-30, 02-31, 03-03, 03-04, 03-21, 03-22, 03-23, 03-24, 03-25, 03-26, 12-05, 18-01-PB, 18-13, 18-14, 18-15, 18-12, and 18-16)}

is permitted by Polk County Air Quality Construction Permit #2233 Modified #4. Refer to Applicable Rules and Regulations section above, for emission limits assigned to each emission unit by PC # 2233 Modified #4. All EUs have uncontrolled minor PTEs for all pollutants, with the exception of the paint group EUs which have controlled minor / uncontrolled significant PM₁₀ PTEs. (15 or 30 TPY PM₁₀). A Facility O&M Plan is required under DNR Monitoring Guidance Policy. However, a standard Agency O&M Plan is required for all dry filters of paint booths. Opacity monitoring shall be required once a week for all Wet Paint Spraying Operations EPs, utilizing the Method 22 like standard requirement, where a Method 9 observation is required if any VEs are observed. This is because they are each subject to a <20% opacity requirement. Painting operations EPs do not normally have any visible emissions, but a paint filter control device failure is indicated if there are any VEs. CAM not required.

(EU Weld01 / EP Weld01f)

GMAW/SMAW Welding is permitted by Polk County Air Quality Construction Permit #2596. This permit limits PM / PM₁₀/ PM_{2.5} to 7.80 TPY, 0.10 gr/dscf; opacity to <20%; and HAP (Manganese) to 0.48 TPY (all pollutants uncontrolled minor). No additional monitoring is required under DNR Monitoring Guidance Policy. Opacity monitoring is not warranted, since EP Weld01f is required to be vented internally. CAM not required.

(EU T-59 / EP T-59) B14 Unleaded Gas Storage Tank – 6,000 gallons was applied for as insignificant. It was determined that it is subject to NESHAP Subpart CCCCCC and is therefore significant. It has been placed into the Title V permit with applicable NESHAP Subpart CCCCCC requirements. The tank is exempt from Polk County AQD Construction Permitting, and there are no applicable emission limits. Throughput monitoring will ensure compliance with 40 CFR 63 Subpart CCCCCC. CAM not required.

Facility Proposed Limits:

N/A

Responsible Official:

Andrew W. Hansen, Factory Manager, Meets the definition of responsible official found in 567 IAC 22.100, since the factory manager is in charge of the principle business functions of John Deere Des Moines Works. He has the authority to allocate funds to address an environmental problem.