

**Iowa Department of Natural Resources
Title V Operating Permit**

**Name of Permitted Facility: John Deere Waterloo Works-Tractor
& Cab Assembly Operations**

Facility Location: 3500 E. Donald Street, Waterloo, IA 50703

Air Quality Operating Permit Number: 02-TV-024R1

Expiration Date: July 10, 2016

Permit Renewal Application Deadline: January 10, 2016

EIQ Number: 92-5614

Facility File Number: 07-01-085

Responsible Official

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Title: Operations Manager

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This permit is issued in accordance with 567 Iowa Administrative Code Chapter 22, and is issued subject to the terms and conditions contained in this permit. Separate Title V Permits have been issued for John Deere Waterloo Works – Drive Train Operations, John Deere Waterloo Works-Tractor & Cab Assembly Operations, John Deere Foundry and John Deere Waterloo-Coating Service Center, which are all considered one stationary source. This permit is for John Deere Waterloo Works – Tractor & Cab Assembly Operations.

For the Director of the Department of Natural Resources

Douglas A. Campbell, Supervisor of Air Operating Permits Section

Date

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Abbreviations

acfm.....	actual cubic feet per minute
CFR.....	Code of Federal Regulation
CE	control equipment
CEM.....	continuous emission monitor
°F.....	degrees Fahrenheit
EIQ.....	emissions inventory questionnaire
EP	emission point
EU	emission unit
gr./dscf	grains per dry standard cubic foot
gr./100 cf.....	grains per one hundred cubic feet
IAC.....	Iowa Administrative Code
IDNR.....	Iowa Department of Natural Resources
MVAC.....	motor vehicle air conditioner
NAICS.....	North American Industry Classification System
ng/dscm.....	nanogram per dry cubic standard meter
NSPS	new source performance standard
ppmv	parts per million by volume
lb./hr	pounds per hour
lb./MMBtu	pounds per million British thermal units
SCC	Source Classification Codes
scfm.....	standard cubic feet per minute
SIC.....	Standard Industrial Classification
TEQ.....	Toxic equivalent to 2,3,7,8 - TCDD
TPY	tons per year
USEPA	United States Environmental Protection Agency
Pollutants	
PM.....	particulate matter
PM ₁₀	particulate matter ten microns or less in diameter
SO ₂	sulfur dioxide
NO _x	nitrogen oxides
VOC.....	volatile organic compound
CO.....	carbon monoxide
HAP.....	hazardous air pollutant

I. Facility Description and Equipment List

Facility Name: John Deere Waterloo Works-Tractor & Cab Assembly Operations
 Permit Number: 02-TV-024R1

Facility Description: Manufacturer of Farm Machinery and Equipment (SIC3523)

Equipment List

A. Chassis Paint Booth

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
6020-40	6020-40	Chassis Paint Booth	08-A-300-S4
6020-41			08-A-301-S4
6020-42			08-A-302-S4
6020-43			08-A-303-S4
6020-44			08-A-304-S5
6020-45			08-A-305-S4
6020-46			08-A-306-S4

B. Tractor Testing

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
6020-39	6020-27	Quality Audit Exhaust Dynamometer	04-A-358
6020-27	6020-27a	Quality Audit Test	96-A-1329-S1
6030-15a	6030-15	4WD Tractor Test Line	96-A-1326-S3
6030-15b			96-A-1327-S3
6030-15c			96-A-1328-S3

C. Touch-up Paint Booth & Kitchen

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
6060-01	6060-01	Tractor Touch-up Paint Booth	02-A-145-S5
6060-02	6060-02	Tractor Touch-up Paint Kitchen	02-A-146-S3

D. Small Boilers

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
6060-03	6060-03	Boiler CB-200-Natural Gas Fired	89-A-016-S1
	6060-03a	Boiler CB-200-Fuel Oil Fired	
6060-04	6060-04	Boiler M4W2000-Natural Gas Fired	89-A-0-17-S1
	6060-04a	Boiler M4W-2000-Fuel Oil Fired	

E. Large Boilers

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
6130-01	6130-01	Boiler D68-Natural Gas Fired	89-A-013-S3
	6130-01a	Boiler D68-Fuel Oil Fired	
6130-02	6130-02	Boiler D52-Natural Gas Fired	89-A-014-S3
	6130-02a	Boiler D52-Fuel Oil Fired	
6130-03	6130-03	Boiler D86-Natural Gas Fired	89-A-015-S4
	6130-03a	Boiler D86-Fuel Oil Fired	

F. Storage Tanks

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
6130-08	6130-08	Fuel Oil Tank #5	99-A-542
6130-09	6130-09	Fuel Oil Tank #6	99-A-543
6130-10	6130-10	Fuel Oil Tank #7	99-A-544-S1
6130-11	6130-11	Fuel Oil Tank #8	99-A-545-S1

G. Engines

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
6020-32	6020-32	Computer Room Backup Generator	N/A
6030-13	6030-13	Fire Protection Primary Pump	N/A
6130-04	6130-04	Telephone Room Backup Generator	N/A

H. Miscellaneous Sources

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
6110-01	6110-01	Fire Protection Backup Pump	N/A
0Fugitive 1	Fugitive 1	Fugitive Paint Emissions from Mfg. Activities	N/A
6020-1a	6020-1a	Chassis Paint System Oven	N/A

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
6020-06	Engine Test MW Line
6020-07	Engine Test MR Line
6020-08	Engine Test 8000 Line
6020-28	8000 Engine Repair/Test
6020-31	Engine Test 8000T Line
6020-33	Portable Diesel Electric Generator
6020-34	Service Training Engine Exhaust
6020-35	Refrigerant Storage Tank System (5,500 gal)
6020-36	Gear Oil Tank #1 (5,300 gal)
6020-37	Gear Oil Tank #2 (5,300 gal)
6020-38	Soap Tank
6030-16	Balliu Sheet Steel Laser
6030-17	Balliu Sheet Steel Laser #2
6030-18	Balliu Tube Steel Laser
6040-01	Tube Steel Laser
6110-02	Fire Protection Tank Heater (1.9 MMBtu/hr)
6130-12	Quality Audit Diesel Fuel Tank #9 (2,820 gal)
6130-13	Plant Diesel Fuel Tank (564 gal)
6130-14	Plant Gasoline Tank #1 (564 gal)
6130-15	Plant Gasoline Tank #2 (564 gal)
6130-16	T-3 Oily Wastewater Process Tank (20,000 gal)
Fugitive 2	Fugitive Adhesive Emissions from Mfg.
Fugitive 3	Fugitive Solvent Emissions
Fugitive 4	Fugitive Cleaner Emissions
Fugitive 5	Fugitive Lubricant Emissions
Fugitive 6	Fugitive Solvent Parts Washers
MET FAB 1	Production Machining Operations
Weld Fug 2	D610 Fugitive Welding Emissions
Weld Fug 3	D616 Fugitive Welding Emissions
Weld Fug 4	D633 Fugitive Welding Emissions
Weld Fug 5	D618 Fugitive Welding Emissions
Weld Fug 6	D619 Fugitive Welding Emissions
Weld Fug Ceres	D615 Fugitive Welding Emissions
Weld Fug Rumble	D614 Fugitive Welding Emissions
6130-05 ⁽¹⁾	Antifreeze Tank #1 (15,520 gal) (00-A-714-S1)
6130-06 ⁽¹⁾	Hygard Hydraulic Oil Tank #2 (15,000 gal) (00-A-715-S1)
6130-07 ⁽¹⁾	Hygard Hydraulic Oil Tank #3 (15,000 gal) (00-A-716-S1)

⁽¹⁾ The construction permit associated with this emission unit does not contain any specific terms or conditions, therefore it qualifies as an insignificant activity per rule 567 IAC 22.103.

II. Plant-Wide Conditions

Facility Name: John Deere Waterloo Works-Tractor & Cab Assembly Operations
Permit Number: 02-TV-024R1

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

Permit Duration

The term of this permit is: Five (5) years.
Commencing on:
Ending on:

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

Emission Limits

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

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

Sulfur Dioxide (SO₂): 500 parts per million by volume
Authority for Requirement: 567 IAC 23.3(3)"e"

Particulate Matter:

No person shall cause or allow the emission of particulate matter from any source in excess of the emission standards specified in this chapter, except as provided in 567 – Chapter 24. For sources constructed, modified or reconstructed after July 21, 1999, the emission of particulate matter from any process shall not exceed an emission standard of 0.1 grain per dry standard cubic foot of exhaust gas, except as provided in 567 – 21.2(455B), 23.1(455B), 23.4(455B) and 567 – Chapter 24.

For sources constructed, modified or reconstructed prior to July 21, 1999, the emission of particulate matter from any process shall not exceed the amount determined from Table I, or amount specified in a permit if based on an emission standard of 0.1 grain per standard cubic foot of exhaust gas or established from standards provided in 23.1(455B) and 23.4(455B).
Authority for Requirement: 567 IAC 23.3(2)"a"

Fugitive Dust: Attainment and Unclassified Areas - No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved public roads, without taking reasonable precautions to prevent particulate matter in quantities sufficient to create a nuisance, as defined in Iowa Code section 657.1, from becoming airborne. All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not limited to, the following procedures.

1. Use, where practical, of water or chemicals for control of dusts in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land.
2. Application of suitable materials, such as but not limited to asphalt, oil, water or chemicals on unpaved roads, material stockpiles, race tracks and other surfaces which can give rise to airborne dusts.
3. Installation and use of containment or control equipment, to enclose or otherwise limit the emissions resulting from the handling and transfer of dusty materials, such as but not limited to grain, fertilizers or limestone.
4. Covering at all times when in motion, open-bodied vehicles transporting materials likely to give rise to airborne dusts.
5. Prompt removal of earth or other material from paved streets or to which earth or other material has been transported by trucking or earth-moving equipment, erosion by water or other means.

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

Compliance Plan

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

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

Authority for Requirement: 567 IAC 22.108(15)

Applicable NESHAPS and NSPS

40 CFR Part 63, Subpart MMMM

Several emission units at this facility are affected sources under Subparts A (General Provisions, 40 CFR §63.1 – 40 CFR §63.15) and MMMM [National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products, 40 CFR §63.3880 – 40 CFR §63.3981] of the National Emission Standard for Hazardous Air Pollutants (NESHAP).

The affected sources are the collection of all the items listed in paragraphs (b)(1) through (4) of section 63.3882 that are used for surface coating of miscellaneous metal parts and products within each subcategory.

- (1) All coating operations as defined in 63.3981
- (2) All storage containers and mixing vessels in which coatings, thinners and/or other additives, and cleaning materials are stored or mixed.
- (3) All manual and automated equipment and containers used for conveying coatings, thinners and/or other additives, and cleaning materials.
- (4) All storage containers and all manual and automated equipment and containers used for conveying waste materials generated by a coating operation.

Per the applicability criteria in Sec. 63.3881 and the definition of new Sec 63.3882, the Chasis Paint Booth is a new source and the Tractor Touch-up Paint Booth is an existing source subject to 40 CFR Subpart MMMM.

The permittee shall comply with all applicable requirements of Subpart MMMM.

Emission Limits

There are five source categories potentially subject to Subpart MMMM if they meet the definition of affected source and use 250 gal. or more per year of coatings that contain HAPs. Below is a table of the five source categories and the organic HAP limits for existing and new sources. See section 63.3981 for a complete definition of each source category.

Organic HAP Emission Limits	Existing Source
General	0.31 kg HAP/l (2.6 lb HAP/gal) of coating solids
High Performance Source	3.3 kg HAP/l (27.5 lb HAP/gal) of coating solids
Magnet Wire	0.12 kg HAP/l (1.0 lb HAP/gal) of coating solids
Rubber to Metal	4.5 kg HAP/l (37.7 lb HAP/gal) of coating solids
Extreme Performance	1.5 kg HAP/l (12.4 lb HAP/gal) of coating solids

Organic HAP Emission Limits	New Source
General	0.23 kg HAP/l (1.9 lb HAP/gal) of coating solids
High Performance Source	3.3 kg HAP/l (27.5 lb HAP/gal) of coating solids
Magnet Wire	0.05 kg HAP/l (0.44 lb HAP/gal) of coating solids
Rubber to Metal	0.81 kg HAP/l (6.8 lb HAP/gal) of coating solids
Extreme Performance	1.5 kg HAP/l (12.4 lb HAP/gal) of coating solids

Compliance Options

You must include all coatings (as defined in Section 63.3981), thinners and/or other additives, and cleaning materials used in the affected source when determining whether the organic HAP emission rate is equal to or less than the applicable emission limit in Section 63.3890. To make this determination, you must use at least one of the three compliance options summarized below.

- A) Compliant material option – coatings are less than or equal to the limit. Thinners, additives and cleaning materials do NOT contain any HAPs.
- B) Emission rate without add-on control – Taking all materials into account, the organic HAP emission rate is less than or equal to the applicable limit determined on a monthly basis.
- C) Emission rate with add-on control – Taking all materials into account, the organic HAP emission rate is less than or equal to the applicable limit determined on a monthly basis, but with the use of control equipment.

If the facility selects compliance option A or B, they are not required to meet any operating limits or work practice standards.

Notifications, Reports and Records

- A) Notifications
 - 1. Initial notification for existing facility – John Deere Waterloo Works-Tractor & Cab Assembly submitted the initial notification on November 17, 2010.
 - 2. Initial compliance status – See above.
- B) Reports
 - 1. Semi-annual compliance reports
 - 2. Performance test reports (if using add-on control)
 - 3. Start-up, shutdown, malfunction report (if using add-on control)
- C) Records (See Section 63.3930 for a complete list of requirements)
 - 1. Copy of each notification and report
 - 2. Information from materials suppliers
 - 3. Record of each type of operation
 - 4. Record of HAP content

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

40 CFR Part 63, Subpart ZZZZ

The telephone room backup generator, the fire protection backup and primary pump and the computer room backup generator are of the source category affected by the following federal regulation for air toxic emissions: National Emission Standards for Hazardous Air Pollutants for

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

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ

40 CFR Part 63, Subpart DDDDD

The boilers in this facility are affected by the following federal regulation: National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters [40 CFR Part 63, Subpart DDDDD].

Authority for Requirement: 40 CFR Part 63 Subpart DDDDD

40 CFR Part 60, Subpart III

The Fire Protection Backup Pump engine (Emission Unit 6110-01) emission unit is of the source category affected by the Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, 40 CFR, Part 60, Subpart III.

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

III. Emission Point-Specific Conditions

Facility Name: John Deere Waterloo Works-Tractor & Cab Assembly Operations

Permit Number: **02-TV-024R1**

Emission Point ID Numbers: See Table: Chassis Paint Booth

Associated Equipment

Associated Emission Unit ID Numbers: See Table: Chassis Paint Booth

Emissions Control Equipment ID Number: See Table: Chassis Paint Booth

Emissions Control Equipment Description: See Table: Chassis Paint Booth

Table: Chassis Paint Booth

Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Emissions Control Equipment ID No.	Emissions Control Equipment Description	Raw Material	Rated Capacity (ton/hr.)
6020-40	6020-40	Chassis Paint System	CE-10	3-Stage Mat Filter	Paints and Solvents	0.21
6020-41						
6020-42						
6020-43			CE-11	3-Stage Mat Filter		
6020-44						
6020-45						
6020-46						

Applicable Requirements

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

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

Table: Chassis Paint Booth-Emission Limits

Emission Point Number	Associated Emission Unit Number	Opacity Limit 567 IAC 23.3(2)"d"	PM ₁₀ Limit (lb/hr)	VOC Limit (TPY)	Authority for Requirement (Construction Permit Number)
6020-40	6020-40	40% ⁽¹⁾	1.93	97.3 ⁽²⁾	08-A-300-S4
6020-41		40% ⁽¹⁾	1.93		08-A-301-S4
6020-42		40% ⁽¹⁾	1.93		08-A-302-S4
6020-43		40% ⁽¹⁾	1.93		08-A-303-S4
6020-44		40% ⁽¹⁾	2.23		08-A-304-S5
6020-45		40% ⁽¹⁾	2.23		08-A-305-S4
6020-46		40% ⁽¹⁾	2.23		08-A-306-S4

(1) An exceedence of the indicator opacity of 10% will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedence. If exceedences continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

(2) Emission limit for the combined emissions of the Chassis Paint Booth.

Additional Emission Limits

Pollutant: Particulate Matter

Emission Limit: 0.01 gr./scf

Authority for Requirement: 567 IAC 23.4(13)

Iowa DNR Construction Permits specified in Table: Chassis Paint Booth-Emission Limits

Pollutant: Hazardous Air Pollutants (HAP)

Emission Rate : 0.31 kg/l⁽³⁾ Total HAP

Authority for Requirement: 40 CFR 63.3890(a)(1)

567 IAC 23.1(4)"cm"

Iowa DNR Construction Permits specified in Table: Chassis Paint Booth-Emission Limits

(3) 0.31 kilograms of organic HAP per liter of coating solids (kg/l) = 2.6 pounds of organic HAP per gallon of coating solids. The standard is based on a rolling twelve (12) month period.

Operational Limits & Requirements

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

NESHAP:

This emission unit is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart A, General Provisions, and Subpart M, National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products as an existing source. Please refer to pages 9 and 10 of the Plant-Wide Conditions of this permit for more information.

Process throughput:

- A. The amount of surface coating material used in EU 6020-40 shall not exceed 48,650 gallons per rolling 12-month period.
- B. The maximum VOC content of any surface coating material, as applied, in EU 6020-40 shall not exceed 4.0 pounds per gallon.

Reporting & Recordkeeping-

All records, as required by this permit, shall be kept on-site for five years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. These records shall show the following:

- A. Record the monthly amount of surface coating material used in EU 6020-40. Calculate and record 12-month rolling totals.
- B. Record the VOC content of any surface coating material, as applied, in EU 6020-40 in pounds per gallon
- C. Maintain a copy of the Material Safety Data Sheet (MSDS) or other product information showing the VOC and HAP contents of each material used in this unit.
- D. All recordkeeping as required per 40 CFR 63.3930 and 63.3931 as required per 40 CFR §63.3920 (NESHAP Subpart M).

Authority for Requirement: Iowa DNR Construction Permits specified in Table: Chassis Paint Booth-Emission Limits

Emission Point Characteristics

These emission points shall conform to the specifications listed below.

Emission Points 6020-40 through 6020-43

Stack Height, (ft, from the ground): 57.5
Stack Opening, (inches, dia.): 42
Exhaust Flow Rate (scfm): 22,500
Exhaust Temperature (°F): Ambient (70⁰ F)
Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permits specified in Table: Chassis Paint Booth-Emission Limits

Emission Points 6020-44 through 6020-46

Stack Height, (ft, from the ground): 57.5
Stack Opening, (inches, dia.): 44
Exhaust Flow Rate (scfm): 26,000
Exhaust Temperature (°F): Ambient (70⁰ F)
Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permits specified in Table: Chassis Paint Booth-Emission Limits

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Chassis Paint Booth Operations and Maintenance Plan

1. Continuous Monitoring

- The Chassis Paint Booth filter system is controlled by an electronic system which monitors the pressure drop across the filters and the power to the fan. The system will initiate an audio/visual alarm and the paint system will shut down when the pressure drop across the filters is outside of the manufacturer’s recommended range or the power required for a fan exceeds the normal level.

2. Record Keeping and Reporting

- Maintenance and inspection records due to the action taken when the alarm systems are activated will be kept for five years and available upon request.

3. Quality Control

- The filter equipment will be operated and maintained according to the manufacturer’s recommendations.

Emission Point ID Numbers: See Table: Tractor Testing

Associated Equipment

Associated Emission Unit ID Numbers: See Table: Tractor Testing

Table: Tractor Testing

Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Raw Material	Rated Capacity (gal/hr.)
6020-39	6020-27	Quality Audit Exhaust Dynamometer	Diesel Fuel	15
6020-27	6020-27a	Quality Audit Test	Diesel Fuel	5.25
6030-15a	6030-15	4WD Tractor Test Line	Diesel Fuel	23.4
6030-15b			Diesel Fuel	23.4
6030-15c			Diesel Fuel	23.4

Applicable Requirements

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

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

Table: Tractor Testing-Emission Limits

Emission Point Number	Associated Emission Unit Number	Opacity Limit 567 IAC 23.3(2)"d"	PM Limit (gr/dscf) 567 IAC 23.3(2)"a"	SO₂ Limit (lb/MMBtu) 567 IAC 23.3(3)	Authority for Requirement (Construction Permit Number)
6020-39	6020-27	40% ⁽¹⁾	0.1	2.5	04-A-358
6020-27	6020-27a	40% ⁽¹⁾	0.1	2.5	96-A-1329-S1
6030-15a	6030-15	40% ⁽¹⁾	0.1	2.5	96-A-1326-S3
6030-15b		40% ⁽¹⁾	0.1	2.5	96-A-1327-S3
6030-15c		40% ⁽¹⁾	0.1	2.5	96-A-1328-S3

⁽¹⁾ An exceedence of the indicator opacity of 20% will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedence. If exceedences continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Operational Limits & Requirements

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

Process throughput:

- A. The sulfur content of the fuel used in these sources shall not exceed 0.5% by weight.
- B. The emission factor utilized to calculate the facility's NO_x emissions shall be based on EPA's certified engine test (i.e. 5.98 g/kW-hr). Emissions for all other regulated air pollutants shall be determined by the same test or by other acceptable test results/approved emission factors.
- C. The total diesel fuel consumption for emission unit 6020-27 shall not exceed 20,000 gallons per twelve (12) month rolling period.
- D. The total diesel fuel consumption for emission unit 6020-27a shall not exceed 46,000 gallons per twelve (12) month rolling period.
- E. The total diesel fuel consumption for emission unit 6030-15 (emission points 6030-15a through 6030-15c) shall not exceed 205,000 gallons per twelve (12) month rolling period.

Reporting & Record keeping:

All records, as required by this permit, shall be kept on-site for five years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner.

- A. The permit holder, owner and operator of the facility shall determine the cumulative amount of fuel consumed by the affected emission units (IDNR Permits 04-A-358, 96-A-1329-S1, and 96-A-1326 through 1328-S3) on a rolling 12-month basis for each month of operation.
- B. The permit holder, owner and operator of the facility shall maintain a copy of the type of fuel utilized and the sulfur content of the fuel.
- C. The permit holder, owner and operator of the facility shall maintain a copy of the emission factors utilized and the documentation generating the emission factor.

Authority for Requirement: Iowa DNR Construction Permits specified in Table: Tractor Testing
-Emission Limits

Emission Point Characteristics

These emission points shall conform to the conditions specified in Table: Tractor Testing Stacks

Table: Tractor Testing Stacks			Stack Characteristics				
Emission Point Number	Emission Unit Number	Construction Permit #	Stack Height (feet)	Stack Opening (in. dia.)	Exhaust Flowrate (scfm)	Exhaust Temp. (F)	Discharge Style
6020-39	6020-27	04-A-358	46.2	22	5,000	600	Unobstructed Vertical
6020-27	6020-27a	96-A-1329-S1	42.0	19.0	14,280	600	Unobstructed Vertical
6030-15a	6030-15	96-A-1326-S3	64.8	15.0	2,570	250	Unobstructed Vertical
6030-15b		96-A-1327-S3	64.8	24.0	7,710	850	Unobstructed Vertical
6030-15c		96-A-1328-S3	64.8	24.0	7,710	850	Unobstructed Vertical

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: See Table: Touch-Up Paint Booth & Kitchen

Associated Equipment

Associated Emission Unit ID Numbers: See Table: Touch-Up Paint Booth & Kitchen
 Emissions Control Equipment ID Number: See Table: Touch-Up Paint Booth & Kitchen
 Emissions Control Equipment Description: See Table: Touch-Up Paint Booth & Kitchen

Table: Touch-Up Paint Booth & Kitchen

Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Emissions Control Equipment ID No.	Emissions Control Equipment Description	Raw Material	Rated Capacity (gal/hr.)
6060-01	6060-01	Tractor Touch-Up Paint Booth	CE-08	Dry Filter	Paint	14.1
6060-02	6060-02	Tractor Touch-Up Paint Kitchen	N/A	N/A	Paint	N/A

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40%

Authority for Requirement: Iowa DNR Construction Permits 02-A-145-S5 (6060-01) and 02-A-146-S3 (6060-02)
 567 IAC 23.3(2)"d"

⁽¹⁾ An exceedence of the indicator opacity of 10% will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedence. If exceedences continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Additional Emission Limits

For Emission Unit 6060-01 only

Pollutant: Particulate Matter

Emission Limit: 0.01 gr./scf

Authority for Requirement: 567 IAC 23.4(13)
 Iowa DNR Construction Permit 02-A-145-S5

Pollutant: PM₁₀
Emission Limit(s): 2.19 lb/hr
Authority for Requirement: Iowa DNR Construction Permit 02-A-145-S2

Pollutant: VOC
Emission Limit(s): 2.19 tons/year
Authority for Requirement: IDNR Construction Permit 02-A-145-S5

Pollutant: Hazardous Air Pollutants (HAP)
Emission Rate : 0.31 kg/l⁽³⁾ Total HAP
Authority for Requirement: 40 CFR 63.3890(b)(1)
567 IAC 23.1(4)"cm"
Iowa DNR Construction Permit 02-A-145-S5

⁽²⁾0.31 kilograms of organic HAP per liter of coating solids (kg/l) = 2.6 pounds of organic HAP per gallon of coating solids (lb/gal). The standard is based on a rolling twelve (12) month period.

For Emission Unit 6060-02 only

Pollutant: Particulate Matter
Emission Limit: 0.1 gr./scf
Authority for Requirement: 567 IAC 23.3(2)"a"
Iowa DNR Construction Permit 02-A-146-S3

Operational Limits & Requirements

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

NESHAP:

These emission sources are pre-existing affected sources subject to 40 CFR 63 Subpart Mmmm, National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products. Please refer to pages 9 and 10 of the Plant-Wide Conditions of this permit for more information.

Process throughput: For 6060-01 only

- A. The amount of alkyd and enamel used in the tractor touch-up paint booth shall not exceed 615 gallons per rolling 12-month period.
- B. The maximum VOC content of alkyd or enamel used in the tractor touch-up shall not exceed 8 pounds of VOC per gallon.

Reporting & Record keeping: For 6060-01 only

All records, as required by this permit, shall be kept on-site for five years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. These records shall show the following:

- A. Record the monthly amount of alkyd and enamel used in the tractor touch-up paint booth. Calculate and record 12-month rolling totals.
- B. Record the VOC content of alkyd and enamel in pounds per gallon.
- C. Maintain a copy of the Material Safety Data Sheet (MSDS) and other product information showing the VOC and HAP contents of each material used in this unit.
- D. All recordkeeping as required per 40 CFR 63.3963 (NESHAP Subpart M).

Authority for Requirement: Iowa DNR Construction Permit 02-A-145-S5

Emission Point Characteristics

These emission points shall conform to the conditions specified in Table: Touch Up Paint Booth & Kitchen Stacks

Table: Touch-Up Paint Booth & Kitchen Stacks			Stack Characteristics				
Emission Point Number	Emission Unit Number	Construction Permit #	Stack Height (feet)	Stack Opening (in. dia.)	Exhaust Flowrate (scfm)	Exhaust Temp. (F)	Discharge Style
6060-01	6060-01	02-A-145-S4	48.71	46	25,600	Ambient	Unobstructed Vertical
6060-02	6060-02	02-A-146-S2	49	46	12,000	Ambient	Unobstructed Vertical

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

For 6060-01 only.

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Touch-Up Paint Booth Operational and Maintenance Plan

1. General

- Periodic Monitoring is not required during periods of time greater than one month in which the source does not operate.

2. Monthly

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

3. Record Keeping and Reporting

- Maintenance and inspection records will be kept for five years and available upon request.

3. Quality Control

- The filter equipment will be operated and maintained according to the manufacturer's recommendations.

Emission Point ID Numbers: See Table: Small Boilers

Associated Equipment

Associated Emission Unit ID Numbers: See Table: Small Boilers

Table: Small Boilers

Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Raw Material	Rated Capacity (MMBtu/hr.)
6060-03	6060-03	Boiler CB200	Natural Gas	8.375
	6060-03a		Fuel Oil	
6060-04	6060-04	Boiler M4W2000	Natural Gas	2.0
	6060-04a		Fuel Oil	

Applicable Requirements

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

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

Table: Small Boilers-Emission Limits

Emission Point Number	Associated Emission Unit Number	Opacity Limit (567 IAC 23.3(2)"d")	PM Limit	PM ₁₀ Limit (lb/hr)	SO ₂ Limit	Authority for Requirement (Construction Permit Number)	
6060-03	6060-03	5%	0.1 gr/scf ⁽¹⁾ and 0.6 lb./MMBtu ⁽²⁾	0.12	1.7 lb./hr	500 ppmv ⁽³⁾	89-A-016-S1
					2.5 lb./MMBtu ⁽⁴⁾		
6060-04	6060-04	5%	0.1 gr/scf ⁽¹⁾ and 0.6 lb./MMBtu ⁽²⁾	0.06	0.41 lb/hr	500 ppmv ⁽³⁾	89-A-017-S1
						2.5 lb./MMBtu ⁽⁴⁾	

⁽¹⁾ Construction permit limit

⁽²⁾ 567 IAC 23.3(2)"b"

⁽³⁾ 567 IAC 23.3(3)"e" Limit while using natural gas.

⁽⁴⁾ 567 IAC 23.3(3)"b" Limit while using fuel oil.

Operational Limits & Requirements

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

NESHAP:

This equipment is of the source category affected by the following federal regulation: National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR Part 63 Subpart DDDDD].

Authority for Requirement: 40 CFR Part 63 Subpart DDDDD

Additional Operational Limits & Requirements

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

Table: Small Boilers-Operating Limits

Emission Point Number	Associated Emission Unit Number	Process Throughput Limit	Reporting & Recordkeeping⁽¹⁾	Authority for Requirements:
60060-03	6060-03	1. The twelve month total, rolled monthly, amount of fuel oil consumed by the boiler shall not exceed 524,023 gallons.	1. The permit holder shall maintain records to show the twelve-month total, rolled monthly, amount of fuel oil consumed by the boiler. 2. The permit holder shall maintain records to show the sulfur content of the fuel oil consumed by the boiler.	Iowa DNR Construction Permit 89-A-016-S1
	6060-03a	2. The amount of sulfur in the fuel oil consumed by the boiler shall not exceed 0.2 percent by weight.		

Table: Small Boilers-Operating Limits (cont.)

Emission Point Number	Associated Emission Unit Number	Process Throughput Limit	Reporting & Recordkeeping⁽¹⁾	Authority for Requirements:
6060-04	6060-04	1. The twelve month total, rolled monthly, amount of fuel oil consumed by the boiler shall not exceed 125,143 gallons.	1. The permit holder shall maintain records to show the twelve-month total, rolled monthly, amount of fuel oil consumed by the boiler. 2. The permit holder shall maintain records to show the sulfur content of the fuel oil consumed by the boiler.	Iowa DNR Construction Permit 89-A-017-S1
	6060-04a	2. The amount of sulfur in the fuel oil consumed by the boiler shall not exceed 0.2 percent by weight.		

⁽¹⁾ All records, as required by this permit, shall be kept on-site for five years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner.

Emission Point Characteristics

These emission points shall conform to the conditions specified in Table: Small Boilers-EP Characteristics.

Table: Small Boilers-EP Characteristics

			Stack Characteristics				
Emission Point Number	Emission Unit Number	Construction Permit #	Stack Height (feet)	Stack Opening (in. dia.)	Exhaust Flowrate (scfm)	Exhaust Temp. (°F)	Discharge Style
6060-03	6060-03	89-A-016-S1	61.5	18	1,500 (acfm)	500	N/A
	6060-03a						
6060-04	6060-04	89-A-017-S1	62.5	12	1,250 (acfm)	500	N/A
	6060-04a						
	6130-03a						

It shall be the owner's responsibility to ensure that construction conforms with the emission point characteristics stated above. If it is determined that any of the emission point characteristics are different than stated above, the owner must notify the Department and obtain a construction permit amendment, if required.

Authority for Requirement: Iowa DNR Construction Permits specified in Table: Small Boilers - EP Characteristics

Monitoring Requirements

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

The following applies to Emission Points 6060-03 and 6060-04 *only while burning fuel oil.*

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during normal operation of the unit. 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 (>5 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: See Table: Large Boilers

Associated Equipment

Associated Emission Unit ID Numbers: See Table: Large Boilers

Table: Large Boilers

Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Raw Material	Rated Capacity (MMBtu/hr.)
6130-01	6130-01	Boiler D68	Natural Gas	57.70
	6130-01a		Fuel Oil	
6130-02	6130-02	Boiler D52	Natural Gas	40.0
	6130-02a		Fuel Oil	
6130-03	6130-03	Boiler D86	Natural Gas	76.0
	6130-03a		Fuel Oil	

Applicable Requirements

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

The emissions from these emission points shall not exceed the levels specified in Table: Large Boilers-Emission Limits.

Table: Large Boilers-Emission Limits

Emission Point Number	Associated Emission Unit Number	Opacity Limit (567 IAC 23.3(2)"d")	PM Limit	PM ₁₀ Limit (lb/hr)	SO ₂ Limit		Authority for Requirement (Construction Permit Number)
6130-01	6130-01	40% ⁽¹⁾	0.6 lb/MMBtu ⁽³⁾	1.36	N/A	500 ppmv ⁽⁴⁾	89-A-013-S3
	6130-01a				11.8 lb./hr	2.5 lb./MMBtu ⁽⁵⁾	
6130-02	6130-02	40% ⁽¹⁾	0.6 lb/MMBtu ⁽³⁾	1.10	N/A	500 ppmv ⁽⁴⁾	89-A-014-S3
	6130-02a				8.2 lb./hr	2.5 lb./MMBtu ⁽⁵⁾	
6130-03	6130-03	40% ⁽¹⁾	0.6 lb/MMBtu ⁽³⁾	1.77	N/A	500 ppmv	89-A-015-S4
	6130-03a				15.4 lb/hr	2.5 lb./MMBtu	

⁽¹⁾ An exceedence of the indicator opacity of “no visible emissions” will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedence. If exceedences continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

⁽³⁾ 567 IAC 23.3(2)"b"

⁽⁴⁾ 567 IAC 23.3(3)"e" Limit while using natural gas.

⁽⁵⁾ 567 IAC 23.3(3)"b" Limit while using fuel oil.

Operational Limits & Requirements

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

NESHAP:

This equipment is of the source category affected by the following federal regulation: National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR Part 63 Subpart DDDDD].

Authority for Requirement: 40 CFR Part 63 Subpart DDDDD

Additional Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed in Table: Large Boilers-Operating Limits.

Table: Large Boilers-Operating Limits

Emission Point Number	Associated Emission Unit Number	Process Throughput Limit	Reporting & Recordkeeping⁽¹⁾	Authority for Requirements:
6130-01	6130-01	1. The twelve month total, rolled monthly, amount of fuel oil consumed by the boiler shall not exceed 464,000 gallons. 2. The sulfur content of all fuel oil consumed by this unit shall not exceed 0.2 percent by weight.	1. At the end of each month, record the amount of fuel oil consumed in this unit over the previous month. 2. At the end of each month, record the amount of fuel oil consumed in this unit over the previous twelve (12) months. 3. For each shipment of fuel oil received for this unit, maintain a vendor's fuel certification or other documentation showing the sulfur content of the fuel received.	Iowa DNR Construction Permit 89-A-013-S3
	6130-01a			

Table: Large Boilers-Operating Limits (Cont.)

Emission Point Number	Associated Emission Unit Number	Process Throughput Limit	Reporting & Recordkeeping ⁽¹⁾	Authority for Requirements:
6130-02	6130-02	1. The twelve month total, rolled monthly, amount of fuel oil consumed by the boiler shall not exceed 1,537,000 gallons. 2. The sulfur content of all fuel oil consumed by this unit shall not exceed 0.2 percent by weight.	1. At the end of each month, record the amount of fuel oil consumed in this unit over the previous month. 2. At the end of each month, record the amount of fuel oil consumed in this unit over the previous twelve (12) months. 3. For each shipment of fuel oil received for this unit, maintain a vendor's fuel certification or other documentation showing the sulfur content of the fuel received.	Iowa DNR Construction Permit 89-A-014-S3
	6130-02a			
6130-03	6130-03	1. The fuel oil consumption in this unit shall not exceed 800,000 gallons per twelve (12) month period, rolled monthly. 2. The natural gas consumption in this unit shall not exceed 445,000,000 cubic feet per twelve (12) month period, rolled monthly. 3. The sulfur content of all fuel oil consumed in this unit shall not exceed 0.2 percent by weight.	1. At the end of each month, record the amount of fuel oil and the amount of natural gas consumed in this unit over the previous month. 2. At the end of each month, record the amount of fuel oil and the amount of natural gas consumed in this unit over the previous twelve (12) months. 3. For each shipment of fuel oil received for this unit, maintain a vendor's fuel certification or other documentation showing the sulfur content of the fuel received..	Iowa DNR Construction Permit 89-A-015-S4
	6130-03a			

⁽¹⁾ All records, as required by this permit, shall be kept on-site for five years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner.

Emission Point Characteristics

These emission points shall conform to the conditions specified in Table: Large Boilers-EP Characteristics.

Table: Large Boilers-EP Characteristics

Emission Point Number	Emission Unit Number	Construction Permit #	Stack Characteristics				Discharge Style
			Stack Height (feet)	Stack Opening (in. dia.)	Exhaust Flowrate (scfm)	Exhaust Temp. (°F)	
6130-01	6130-01	89-A-013-S3	45	42	7,250	315	Unobstructed Vertical
	6130-01a						
6130-02	6130-02	89-A-014-S3	45	42	4,800	315	Unobstructed Vertical
	6130-02a						
6130-03	6130-03	89-A-015-S4	45	42	8,835	315	Unobstructed Vertical
	6130-03a						

It shall be the owner's responsibility to ensure that construction conforms with the emission point characteristics stated above. If it is determined that any of the emission point characteristics are different than stated above, the owner must notify the Department and obtain a construction permit amendment, if required.

Authority for Requirement: Iowa DNR Construction Permits specified in Table: Boilers -EP Characteristics

Monitoring Requirements

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

next operating day where weather permits.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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

Emission Point ID Number: See Table: Tanks

Associated Equipment

Associated Emission Unit ID Numbers: See Table: Tanks

Table: Tanks

Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Raw Material	Rated Capacity (Tank Size)
6130-08	6130-08	Fuel Oil Tank #5	Fuel Oil	30,000 gal
6130-09	6130-09	Fuel Oil Tank #6	Fuel Oil	30,000 gal
6130-10	6130-10	Diesel Fuel Tank #7	Diesel Fuel	15,000 gal
6130-11	6130-11	Diesel Fuel Tank #8	Diesel Fuel	15,000 gal

Applicable Requirements

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed in Table: Tanks-Operational Limits.

Table: Tanks-Operational Limits

Emission Point Number	Associated Emission Unit Number	Process Throughput Limit	Reporting & Recordkeeping ⁽¹⁾	Authority for Requirements: Iowa DNR Construction Permits
6130-08	6130-08	This tank shall only be used for storage of materials with a vapor pressure less than or equal to distillate fuel oil #2	<ol style="list-style-type: none"> 1. Keep a Material Safety & Data Sheet (MSDS) for any material stored in the tank 2. Determine the annual throughput of material on a rolling 12-month basis for each month of operation, and keep the records on-site for at least five(5) years. 	99-A-542-S1
6130-09	6130-09			99-A-543-S1

Table: Tanks-Operational Limits (Cont.)

Emission Point Number	Associated Emission Unit Number	Process Throughput Limit	Reporting & Recordkeeping ⁽¹⁾	Authority for Requirements: Iowa DNR Construction Permits
6130-10	6130-10	These tanks shall only be used for storage of materials with a vapor pressure less than or equal to distillate fuel oil #1	1. Keep a Material Safety & Data Sheet (MSDS) for any material stored in the tank 2. Determine the annual throughput of material on a rolling 12-month basis for each month of operation. Keep these records on-site for at least five(5) years	99-A-544-S1
6130-11	6130-11			99-A-545-S1

⁽¹⁾ The records shall be kept on site for a minimum of five (5) years and shall be available for inspection by the Department.

Authority for Requirement: Iowa DNR Construction Permits specified in Table: Tanks-Operational Limits

Emission Point Characteristics

These emission points shall conform to the conditions specified in Table: Tanks-EP Characteristics

Table: Tanks-EP Characteristics

Emission Point Number	Emission Unit Number	Construction Permit #	Stack Characteristics				Discharge Style
			Stack Height (feet)	Stack Opening (in. dia.)	Exhaust Flowrate (acfm)	Exhaust Temp. (°F)	
6130-08	6130-08	99-A-542-S1	27.5	0.17 ft	0	70 ⁰	Downward Discharge
6130-09	6130-09	99-A-543-S1	27.5	0.17 ft	0	70 ⁰	Downward Discharge
6130-10	6130-10	99-A-544-S1	27.5	0.17 ft	0	70 ⁰	Downward Discharge
6130-11	6130-11	99-A-545-S1	27.5	0.17 ft	0	70 ⁰	Downward Discharge

Authority for Requirement: Iowa DNR Construction Permits specified in Table: Tanks-EP
Characteristics

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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

Emission Point ID Number: See Table: Engines

Associated Equipment

Associated Emission Unit ID Numbers: See Table: Engines

Table: Engines

Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Raw Material	Rated Capacity (bhp)
6020-32	6020-32	Computer Room Backup Generator	Diesel Fuel	300
6030-13	6030-13	Fire Protection Primary Pump	Diesel Fuel	215
6130-04	6130-04	Telephone Room Backup Generator	Diesel Fuel	211

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %

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

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

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

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"(2)

Operational Limits & Requirements

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

NESHAP:

This equipment is of the source category affected by the following federal regulation: National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE NESHAP) [40 CFR Part 63, Subpart ZZZZ].

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ

Process throughput:

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

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

Reporting & Record keeping:

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

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

Authority for Requirement: 567 IAC 22.108(3)

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 6110-01

Associated Equipment

Associated Emission Unit ID Number: 6110-01

Emission Unit vented through this Emission Point: 6110-01
Emission Unit Description: Fire Protection Backup Pump
Raw Material/Fuel: Diesel
Rated Capacity: 190 bhp

Applicable Requirements

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

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

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

Pollutant: Particulate Matter
Emission Limit(s): 0.40 g /HP-hr
Authority for Requirement: 40 CFR Part 60, Subpart III
567 IAC 23.1(2)"yyy"

Pollutant: NMHC + NOx
Emission Limit(s): 7.8 g /HP-hr
Authority for Requirement: 40 CFR Part 60, Subpart III
567 IAC 23.1(2)"yyy"

Pollutant: CO
Emission Limit(s): 2.6 g /HP-hr
Authority for Requirement: 40 CFR Part 60, Subpart III
567 IAC 23.1(2)"yyy"

Operational Limits & Requirements

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

NESHAP:

This equipment is of the source category affected by the following federal regulation: National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE NESHAP) [40 CFR Part 63, Subpart ZZZZ].

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ

NSPS:

This emission unit is regulated by the Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, 40 CFR, Part 60, Subpart IIII. This source meets the definition of an emergency fire pump with a displacement of less than 30 liters/cylinder. Therefore, this source must comply with the emission standards in Table 4 of Subpart IIII and all other applicable requirements of that Subpart.

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

Process throughput:

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

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

Reporting & Record keeping:

The following records shall be maintained on-site for five (5) years and available for inspection upon request by representatives of the Department of Natural Resources:

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

Authority for Requirement: 567 IAC 22.108(3)

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: Fugitive 1

Associated Equipment

Associated Emission Unit ID Number: Fugitive 1

Emission Unit vented through these Emission Points: Fugitive 1
Emission Unit Description: Fugitive Paint Emissions from Mfg. Activities
Raw Material/Fuel: Paints
Rated Capacity: N/A

Applicable Requirements

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

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

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

Pollutant: Particulate Matter
Emission Limit(s): 0.01 gr/scf
Authority for Requirement: 567 IAC 23.4(13)

Operational Limits & Requirements

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

NESHAP:

This emission unit is regulated by the National Emission Standards for Hazardous Air Pollutant: Surface Coating of Miscellaneous Metal Parts and Product, 40 CFR, Part 63, Subpart Mmmm please refer to pages 9 and 10 of the Plant-Wide Conditions of this permit for more information.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: 6020-1a

Associated Equipment

Associated Emission Unit ID Number: 6020-1a

Emission Unit vented through this Emission Point: 6020-1a

Emission Unit Description: Chassis Paint System Oven

Raw Material/Fuel: Natural Gas

Rated Capacity: 3.0 MMBtu/hr

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %

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

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/scf

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

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv

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

Operational Limits & Requirements

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

NESHAP:

This emission unit is regulated by the National Emission Standards for Hazardous Air Pollutant: Surface Coating of Miscellaneous Metal Parts and Product, 40 CFR, Part 63, Subpart Mmmm please refer to pages 9 and 10 of the Plant-Wide Conditions of this permit for more information.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

IV. General Conditions

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

G1. Duty to Comply

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

G2. Permit Expiration

1. Except as provided in 567 IAC 22.104, the expiration of this permit terminates the permittee's right to operate unless a timely and complete application has been submitted for renewal. Any testing required for renewal shall be completed before the application is submitted. *567 IAC 22.116(2)*
2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall present or mail the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, 7900 Hickman Rd, Suite #1, Windsor Heights, Iowa 50324, two copies (three if your facility is located in Linn or Polk county) of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. An additional copy must also be sent to EPA Region VII, Attention: Chief of Air Permits, 901 N. 5th St., Kansas City, KS 66101. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in 567 IAC 22.105(2). *567 IAC 22.105*

G3. Certification Requirement for Title V Related Documents

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

G4. Annual Compliance Certification

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

G5. Semi-Annual Monitoring Report

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

G6. Annual Fee

1. The permittee is required under subrule 567 IAC 22.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The following forms shall be submitted annually by March 31 documenting actual emissions for the previous calendar year.
 - a. Form 1.0 "Facility Identification";
 - b. Form 4.0 "Emissions unit-actual operations and emissions" for each emission unit;
 - c. Form 5.0 "Title V annual emissions summary/fee"; and
 - d. Part 3 "Application certification."
4. The fee shall be submitted annually by July 1. The fee shall be submitted with the following forms:
 - a. Form 1.0 "Facility Identification";
 - b. Form 5.0 "Title V annual emissions summary/fee";
 - c. Part 3 "Application certification."
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.

6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d".

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

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

1. Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
4. Sample or monitor, at reasonable times, substances or parameters for the purpose of ensuring compliance with the permit or other applicable requirements. *567 IAC 22.108 (15)"b"*

G8. Duty to Provide Information

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

G9. General Maintenance and Repair Duties

The owner or operator of any air emission source or control equipment shall:

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

G10. Recordkeeping Requirements for Compliance Monitoring

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:
 - a. The date, place and time of sampling or measurements
 - b. The date the analyses were performed.
 - c. The company or entity that performed the analyses.
 - d. The analytical techniques or methods used.
 - e. The results of such analyses; and
 - f. The operating conditions as existing at the time of sampling or measurement.
 - g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)

2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.

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

- a. Comply with all terms and conditions of this permit specific to each alternative scenario.
- b. Maintain a log at the permitted facility of the scenario under which it is operating.
- c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 22.108(4), 567 IAC 22.108(12)*

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

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

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

- a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 22;
- b. Compliance test methods specified in 567 Chapter 25; or
- c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.

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

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

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

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

G13. Hazardous Release

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

G14. Excess Emissions and Excess Emissions Reporting Requirements

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

2. Excess Emissions Reporting

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

- i. The identity of the equipment or source operation from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and expected duration of the excess emission.
- iv. The cause of the excess emission.
- v. The steps being taken to remedy the excess emission.
- vi. The steps being taken to limit the excess emission in the interim period.

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

- i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and duration of the excess emission.
- iv. The cause of the excess emission.
- v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.
- vi. The steps that were taken to limit the excess emission.
- vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 24.1(1)-567 IAC 24.1(4)*

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

- a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
- b. The facility at the time was being properly operated;
- c. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements of the permit; and
- d. The permittee submitted notice of the emergency to the director by certified mail within two working days of the time when the emissions limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. *567 IAC 22.108(16)*

G15. Permit Deviation Reporting Requirements

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

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

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

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

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:
 - a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.
 - b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
 - c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
 - d. The changes are not subject to any requirement under Title IV of the Act.
 - e. The changes comply with all applicable requirements.
 - f. For such a change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:
 - i. A brief description of the change within the permitted facility,
 - ii. The date on which the change will occur,
 - iii. Any change in emission as a result of that change,
 - iv. The pollutants emitted subject to the emissions trade
 - v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
 - vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
 - vii. Any permit term or condition no longer applicable as a result of the change.
2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 22.110(2)*
3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*
4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*
5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 22.108(11)*

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

a. An administrative permit amendment is a permit revision that is required to do any of the following:

- i. Correct typographical errors
- ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;
- iii. Require more frequent monitoring or reporting by the permittee; or
- iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.

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

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

2. Minor Permit Modification.

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

- i. Do not violate any applicable requirements
- ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit.
- iii. Do not require or change a case by case determination of an emission limitation or other standard, or increment analysis.
- iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act.;
- v. Are not modifications under any provision of Title I of the Act; and
- vi. Are not required to be processed as significant modification.

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

- i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs.
- ii. The permittee's suggested draft permit
- iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of a minor permit modification procedures and a request that such procedures be used; and

- iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).
- c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, existing permit term terms and conditions it seeks to modify may subject the facility to enforcement action.

3. Significant Permit Modification. Significant Title V modification procedures shall be used for applications requesting Title V permit modifications that do not qualify as minor Title V modifications or as administrative amendments. These include but are not limited to all significant changes in monitoring permit terms, every relaxation of reporting or recordkeeping permit terms, and any change in the method of measuring compliance with existing requirements. Significant Title V modifications shall meet all requirements of 567 IAC Chapter 22, including those for applications, public participation, review by affected states, and review by the administrator, and those requirements that apply to Title V issuance and renewal. 567 IAC 22.111-567 IAC 22.113 The permittee shall submit an application for a significant permit modification not later than three months after commencing operation of the changed source unless the existing Title V permit would prohibit such construction or change in operation, in which event the operation of the changed source may not commence until the department revises the permit. 567 IAC 22.105(1)"a"(4)

G19. Duty to Obtain Construction Permits

Unless exempted under 567 IAC 22.1(2), the permittee must not construct, install, reconstruct, or alter any equipment, control equipment or anaerobic lagoon without first obtaining a construction permit, conditional permit, or permit pursuant to 567 IAC 22.8, or permits required pursuant to 567 IAC 22.4 and 567 IAC 22.5. Such permits shall be obtained prior to the initiation of construction, installation or alteration of any portion of the stationary source. 567 IAC 22.1(1)

G20. Asbestos

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

G21. Open Burning

The permittee is prohibited from conducting open burning, except as may be allowed by 567 IAC 23.2. 567 IAC 23.2 *except* 23.2(3)"h"; 567 IAC 23.2(3)"h" - State Only

G22. Acid Rain (Title IV) Emissions Allowances

The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated there under. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners and operators of the unit or the designated representative of the owners and operators is prohibited. Exceedences of applicable emission rates are prohibited. "Held" in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the

owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. *567 IAC 22.108(7)*

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

1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
 - a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.
 - b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.
 - c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.
 - d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.
2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:
 - a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.
 - b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.
 - c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.
 - d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)
 - e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.
 - f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.
3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.
4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,
5. The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

G24. Permit Reopenings

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*
2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.
 - a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;
 - b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.
 - c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a"*, *567 IAC 22.108(17)"b"*
3. A permit shall be reopened and revised under any of the following circumstances:
 - a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;
 - b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;
 - c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.
 - d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.
 - e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*
4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*

G25. Permit Shield

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

G26. Severability

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

G27. Property Rights

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

G28. Transferability

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

G29. Disclaimer

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

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

The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with applicable requirements of 567 – Chapter 23 or a permit condition. For the department to consider test results a valid demonstration of compliance with applicable rules or a permit condition, such notice shall be given. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. Unless specifically waived by the department's stack test contact, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. The department may accept a testing protocol in lieu of a pretest meeting. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in

writing to the department's stack test contact in the form of a comprehensive report within six weeks of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.

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

Stack Test Review Coordinator
Iowa DNR, Air Quality Bureau
7900 Hickman Road, Suite #1
Windsor Heights, IA 50324
(515) 242-6001

Within Polk and Linn Counties, stack test notifications, reports and correspondence shall also be directed to the supervisor of the respective county air pollution program.

567 IAC 25.1(7)"a", 567 IAC 25.1(9)

G31. Prevention of Air Pollution Emergency Episodes

The permittee shall comply with the provisions of 567 IAC Chapter 26 in the prevention of excessive build-up of air contaminants during air pollution episodes, thereby preventing the occurrence of an emergency due to the effects of these contaminants on the health of persons.

567 IAC 26.1(1)

G32. Contacts List

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

Chief of Air Permits
EPA Region 7
Air Permits and Compliance Branch
901 N. 5th Street
Kansas City, KS 66101
(913) 551-7020

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

Chief, Air Quality Bureau
Iowa Department of Natural Resources
7900 Hickman Road, Suite #1
Windsor Heights, IA 50324
(515) 242-5100

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

Field Office 1
909 West Main – Suite 4

Field Office 2
2300-15th St., SW

Manchester, IA 52057
(563) 927-2640

Mason City, IA 50401
(641) 424-4073

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

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

Field Office 5
401 SW 7th Street, Suite I
Des Moines, IA 50309
(515) 725-0268

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

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

Linn County Public Health Dept.
Air Pollution Control Division
501 13th St., NW
Cedar Rapids, IA 52405
(319) 892-6000

Appendix A: 40 CFR Part 63, Subpart ZZZZ

Web Link to the National Emissions Standards for Hazardous Air Pollutants: Stationary Reciprocating Internal Combustion Engines

www.gpo.gov/fdsys/

See Featured Collections

- **Code of Federal Regulations**
- **Choose year**
- **Title 40**
- **Part 63**

Appendix B: 40 CFR Part 63, Subpart DDDDD

Web Link to National Emissions Standards for Hazardous Air Pollutants: Industrial, Commercial and Institutional Boilers and Process Heaters

www.epa.gov/airquality/combustion/actions.html

**See Emission Standards for Major Source
- Final Rule**

Appendix C: 40 CFR Part 63, Subpart M

Web Link to National Emissions Standards for Hazardous Air Pollutants: Surface Coating of Miscellaneous Metal Parts and Products

www.gpo.gov/fdsys/

See Featured Collections

- **Code of Federal Regulations**
- **Choose year**
- **Title 40**
- **Part 63**