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

Name of Permitted Facility: Principal Life Insurance Company Facility Location: 711 High Street Des Moines, Iowa 50392 Air Quality Operating Permit Number: 02-TV-019R3 Expiration Date: June 26, 2027 Permit Renewal Application Deadline: December 26, 2026

EIQ Number: 92-6877 Facility File Number: 77-01-174

<u>Responsible Official</u> Name: Mr. Kevin Farley Title: Vice President - EWS Mailing Address: 711 High Street Des Moines, Iowa 50392 Phone #: (515) 771-4569

<u>Permit Contact Person for the Facility</u> Name: Mr. David DeBo Title: Senior VP, Integrated Facilities Management Mailing Address: 711 High Street Des Moines, Iowa 50392 Phone #: (515) 979-3799

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

For the Director of the Department of Natural Resources

Mainie Stein

Marnie Stein, Supervisor of Air Operating Permits Section

June 27, 2022

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#### Abbreviations

acfm	actual cubic feet per minute
	AMS/EPA Regulatory Model
	Polk County Public Works- Air Quality Division
	Chemical Abstract Service Registry
	Control Equipment
CE	Continuous Emission Monitor
	Code of Federal Regulation
	Iowa Department of Natural Resources
°F	degrees Fahrenheit
EIQ	Emissions Inventory Questionnaire
EP	
EU	
	grains per dry standard cubic foot
	Iowa Administrative Code
	Maximum Achievable Control Technology
$\mu g/m^3$	Micrograms per Cubic Meter
MM BTU/ Hr	Million British Thermal Units per Hour
MSDS	Material Safety Data Sheet(s)
MVAC	Motor Vehicle Air Conditioner
NAICS	North American Industry Classification System
	National Emission Standards for Hazardous Air Pollutants
NSPS	New Source Performance Standard
ppmv	parts per million by volume
	pounds per square inch absolute
lb./hr	
	pounds per Million British thermal units
SCC	Source Classification Codes
	standard cubic feet per minute
	standard dry cubic feet per minute
SIC	Standard Industrial Classification
TPY	
	Ultra Low Sulfur Diesel Fuel, (S=0.0015%)
	United States Environmental Protection Agency
	O mile States Environmental Flottenon Agency

#### **Pollutants**

PM	Particulate Matter
PM <sub>10</sub>	.Particulate Matter ten microns or less in diameter
PM <sub>2.5</sub>	Particulate Matter 2.5 microns or less in diameter
SO <sub>2</sub>	Sulfur dioxide
NO <sub>x</sub>	Nitrogen Oxides
VOC(s)	Volatile Organic Compound(s)
СО	Carbon Monoxide
HAP(s)	Hazardous Air Pollutant(s)

### I. Facility Description and Equipment List

Facility Name: Principal Life Insurance Company Permit Number: 02-TV-019R3

Facility Description: Insurance Services (SIC 6311) Direct Life Insurance Carriers (NAICS 524113)

Emission	Emission	Emission Unit Description	Polk County
Point	Unit		<b>Construction Permit</b>
Number	Number		Number
1	1	Generator #2, Caterpillar Model 3516 Dita, Diesel	1107
2	2	Generator #3, Caterpillar Model 3516 Dita, Diesel	1108
3	3	Generator #4, Caterpillar Model 3516 Dita, Diesel	1109
4	4	Generator #5, Caterpillar Model 3516 Dita, Diesel	1110
5	5	Generator #7, Caterpillar Model 3516 Dita, Diesel	1111
6	6	Generator #8, Caterpillar Model 3516 Dita, Diesel	1112
7	7	Boiler #1, Cleaver Brooks Model L-79109, Natural Gas/Diesel	1457
7	8	Boiler #2, Cleaver Brooks Model L-79108, Natural Gas/Diesel	1458
7	9	Boiler #3, Cleaver Brooks Model L-79794, Natural Gas/Diesel	1459
10	10A	John Deere Model 6068HF285K Diesel Fire Pump Engine	3505
11	11	Corporate 2 Emergency Generator, Caterpillar Model 3508, Diesel	1462
14	14A	Corporate 1 Emergency Generator, Cummins Model DQFAS, Diesel	2929
18	18	Corporate 4 Generator, Cummins-Onan Model D28 KTTA50-G2, Diesel	0754 Modified
19	19	Corporate 3 Emergency Generator, Ford Model LSGD8751, Natural Gas	1463
20	20	Underground Storage Tank, 25,000 Gallon, Diesel	1453
21	21	Underground Storage Tank, 20,000 Gallon, Diesel	1456
24	24	801 Grand Emergency Generator, Kato- Waukesha Model L6670, Diesel	1464
28	28	701 Park Street Parking Ramp Emergency Generator, Caterpillar Model D125-6, #2 Diesel	2065

#### **Equipment List**

Insignificant	Insignificant Emission Unit Description
Emission Unit	
Number	
30	Corporate 1, Lochinvar Model FBN3000 3.0 MMBtu/hr Natural Gas Boiler #1
31	Corporate 1, Lochinvar Model FBN3000 3.0 MMBtu/hr Natural Gas Boiler #2
32	Corporate 1, Lochinvar Model FBN3000 3.0 MMBtu/hr Natural Gas Boiler #3
33	Corporate 1, Lochinvar Model FBN3000 3.0 MMBtu/hr Natural Gas Boiler #4
34	Corporate 1, Lochinvar Model FBN3000 3.0 MMBtu/hr Natural Gas Boiler #5

### **II. Plant-Wide Conditions**

Facility Name: Principal Life Insurance Company Permit Number: 02-TV-019R3

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: June 27, 2022 Ending on: June 26, 2027

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:

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

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

All fuel oil combusting emission units at the facility shall only burn Ultra Low Sulfur Diesel Fuel (ULSD), with fuel sulfur content of not more than 0.0015% by weight. The facility shall maintain the fuel supplier certification of sulfur content on site for each shipment received. Records of sulfur content will be kept on site for five (5) years, and made available to representatives of AQD upon request.

(*This requirement was requested by the facility.*) Authority for Requirement: 567 IAC 22.108(14)

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

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

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

*Combustion for indirect heating:* Inside any metropolitan statistical area, the maximum allowable emission from each stack, irrespective of stack height, shall be 0.6 pounds of particulates per million Btu input.

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

Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-15(b)

<u>Fugitive Dust:</u> It shall be unlawful for any person handling, loading, unloading, reloading, storing, transferring, transporting, placing, depositing, throwing, discarding, or scattering any ashes, fly ash, cinders, slag or dust collected from any combination process, any dust, dirt, chaff, wastepaper, trash, rubbish, waste or refuse matter of any kind, or any other substance or material whatever, which is likely to be scattered by the wind, or is susceptible to being wind-borne, to do so without taking reasonable precautions or measures to prevent particulate matter from becoming airborne so as to minimize atmospheric pollution.

Authority for Requirement: Polk County Board of Health Rules and Regulations Chapter V, Article IX, Section 5-24

<u>Fugitive Dust</u>: Attainment and Unclassified Areas - A person shall take reasonable precautions to prevent particulate matter from becoming airborne in quantities sufficient to cause a nuisance as defined in Iowa Code section 657.1 when the person allows, causes or permits any materials to be handled, transported or stored or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved roads. Ordinary travel includes routine traffic and road maintenance activities such as scarifying, compacting, transporting road maintenance surfacing material, and scraping of the unpaved public road surface. (the preceding sentence is State Only) All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The public highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not be limited to, the following procedures.

1. Use, where practical, of water or chemicals for control of dusts in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land.

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- 2. Application of suitable materials, such as but not limited to asphalt, oil, water or chemicals on unpaved roads, material stockpiles, race tracks and other surfaces which can give rise to airborne dusts.
- 3. Installation and use of containment or control equipment, to enclose or otherwise limit the emissions resulting from the handling and transfer of dusty materials, such as but not limited to grain, fertilizer or limestone.
- 4. Covering, at all times when in motion, open-bodied vehicles transporting materials likely to give rise to airborne dusts.
- 5. Prompt removal of earth or other material from paved streets or to which earth or other material has been transported by trucking or earth-moving equipment, erosion by water or other means.
- 6. Reducing the speed of vehicles traveling over on-property surfaces as necessary to minimize the generation of airborne dusts.

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

### **III. Emission Point-Specific Conditions**

Facility Name: Principal Life Insurance Company Permit Number: **02-TV-019R3** 

Associated Equipment					
Emission	Emission	Emission Unit	Raw	Rated	Construction
Point	Unit	Description	Material	Capacity	Permit
1	1	Generator #2, Caterpillar Model 3516 Dita	Ultra-Low Sulfur Diesel	126.8 gal/hr/ 1825 kW	1107
2	2	Generator #3, Caterpillar Model 3516 Dita	Ultra-Low Sulfur Diesel	126.8 gal/hr/1825 kW	1108
3	3	Generator #4, Caterpillar Model 3516 Dita	Ultra-Low Sulfur Diesel	126.8 gal/hr/1825 kW	1109
4	4	Generator #5, Caterpillar Model 3516 Dita	Ultra-Low Sulfur Diesel	126.8 gal/hr/1825 kW	1110
5	5	Generator #7, Caterpillar Model 3516 Dita	Ultra-Low Sulfur Diesel	126.8 gal/hr/1825 kW	1111
6	6	Generator #8, Caterpillar Model 3516 Dita	Ultra-Low Sulfur Diesel	126.8 gal/hr/1825 kW	1112

#### Emission Point ID Numbers: 1, 2, 3. 4, 5 & 6

#### **Applicable Requirements**

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

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

Pollutant: Opacity Emission Limit: <20% Authority for Requirement: Polk County Construction Permit Numbers: 1107, 1108, 1109, 1110, 1111 & 1112 Polk County Board of Health Rules and Regulations: Chapter V, Article IV, Section 5-9

Pollutant: PM<sub>10</sub> Emission Limit: 0.79 TPY Authority for Requirement: Polk County Construction Permit Numbers: 1107, 1108, 1109, 1110, 1111 & 1112 Pollutant: PM Emission Limit: 0.10 gr./dscf Authority for Requirement: 567 IAC 23.3(2)"a" Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-14(b)

Pollutant: SO<sub>2</sub> Emission Limits: 0.895 TPY and 0.5 lb./MMBtu Authority for Requirement: Polk County Construction Permit Numbers: 1107, 1108, 1109, 1110, 1111 & 1112 Polk County Board of Health Rules and Regulations: Chapter V, Article IX, Section 5-27 (2) (b)

Pollutant: NO<sub>x</sub> Emission Limit: 21.95 TPY Authority for Requirement: Polk County Construction Permit Numbers: 1107, 1108, 1109, 1110, 1111 & 1112

Pollutant: VOC Emission Limit: 0.445 TPY Authority for Requirement: Polk County Construction Permit Numbers: 1107, 1108, 1109, 1110, 1111 & 1112

Pollutant: CO Emission Limit: 3.595 TPY Authority for Requirement: Polk County Construction Permit Numbers: 1107, 1108, 1109, 1110, 1111 & 1112

#### **Operational Limits & Requirements**

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All of the records shall be maintained on site for five (5) years.

<u>Process throughput</u>: These emission units shall only burn Ultra Low Sulfur Diesel Fuel (ULSD), with fuel sulfur content of not more than 0.0015% by weight. Fuel sulfur content shall be limited to 0.0015% by weight. Fuel supplier certification of sulfur content shall be maintained on site for each shipment received and made available to representatives of this department (Polk County AQD) upon request.

<u>Reporting & Recordkeeping</u>: Actual emissions shall be calculated from fuel use and submitted annually as a part of the Title V permitting process.

<u>Work practice standards</u>: Hours of operation shall be limited to 500 hours per 12-month period rolled monthly (per engine). The unit shall be equipped with an operable, non-resettable totalizing hour meter. Monthly readings shall be taken, logged on site, and totaled for the preceding 12-month period in said log. Said log shall be maintained on site and made available to representatives of this department (Polk County AQD) upon request.

# Authority for Requirement: Polk County Construction Permit Numbers: 1107, 1108, 1109, 1110, 1111 & 1112 567 IAC 22.108(14)

#### NESHAP:

These emergency engines are subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590(a)(1)(iii), these compression ignition emergency engines, located at an area source, are existing stationary Reciprocating Internal Combustion Engines (RICE) as they were constructed prior to June 12, 2006.

#### Compliance Date

Per 63.6595(a)(1) you must comply with the provisions of Subpart ZZZZ that are applicable by May 3, 2013.

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

- 1. Change oil and filter every 500 hours of operation or annually, whichever comes first. (See 63.6625(i) for the oil analysis option to extend time frame of requirements.)
- 2. Inspect air cleaner every 1000 hours of operation or annually, whichever comes first, and replace as necessary.
- 3. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
- 4. Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
- 5. Install a non-resettable hour meter if one is not already installed.
- 6. Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

#### Operating Limits 40 CFR 63.6640(f)

- 1. Any operation other than emergency operation, maintenance and testing, emergency demand response and operation in non-emergency situations (*up to*) 50 hours per year is prohibited.
- 2. You may operate your emergency stationary RICE up to 100 combined hours per calendar year for maintenance checks and readiness testing. See 40 CFR 63.6640(f)(2) for additional information and restrictions.
- 3. You may operate your emergency stationary RICE up to 50 hours per calendar year for non-emergency situations, but those 50 hours are counted toward the 100 hours of maintenance and testing and emergency demand response. Except as provided in 40 CFR 63.6640(f)(4)(i) and (ii), the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

Recordkeeping Requirements 40 CFR 63.6655

1. Keep records of the maintenance conducted on the stationary RICE.

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

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

1. An initial notification is not required per 40 CFR 63.6645(a)(5)

2. A report may be required for failure to perform the work practice requirements on the schedule required in Table 2d. (See Footnote 2 of Table 2d for more information.)

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

#### **Emission Point Characteristics**

Each emission point shall conform to the specifications listed below.

<u>Stack Height</u>: Stack Height (discharge point) shall be at least thirty-two (32) feet above grade. <u>Stack Location</u>: Stack location shall be at least 25 feet but not greater than 100 feet from the property line.

Authority for Requirement: Polk County Construction Permit Numbers: 1107, 1108, 1109, 1110, 1111 & 1112

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 characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

#### **Monitoring Requirements**

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

Visible Emissions (VE) shall be observed during testing and maintenance periods to ensure none occur during the operation of each unit. No visible emissions are expected from this emission point under normal operating conditions. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight (8) 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 greater than or equal to 20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting a VE observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake VE readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been

unsuccessful due to weather, a VE observation shall be made during the next operating day where weather permits.

<u>Reporting & Record keeping</u>: Maintain a written record of the observation and any action resulting from the observation. Records required shall be maintained on-site for five (5) years and be made available to representatives of Polk County AQD upon request.

Authority for Requirement: 567 IAC 22.108(14)

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: 7**

Associated Equipment				
Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
7	Boiler #1, Cleaver Brooks Model L-79109	Natural Gas, Ultra-Low Sulfur Diesel	14.65 MMBtu/hr, 104.6 gal/hr	1457
8	Boiler #2, Cleaver Brooks Model L-79108	Natural Gas, Ultra-Low Sulfur Diesel	14.65 MMBtu/hr, 104.6 gal/hr	1458
9	Boiler #3, Cleaver Brooks Model L-79794	Natural Gas, Ultra-Low Sulfur Diesel	6.277 MMBtu/hr, 44.8 gal/hr	1459

#### **Applicable Requirements**

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

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

#### **Boilers #1 & #2**

Pollutant: Opacity Emission Limit: <20% Authority for Requirement: Polk County Construction Permit Numbers 1457 & 1458 Polk County Board of Health Rules and Regulations: Chapter V, Article IV, Section 5-9

Pollutant: PM<sub>10</sub> Emission Limit: 0.49 TPY Authority for Requirement: Polk County Construction Permit Numbers 1457 & 1458

Pollutant: PM Emission Limit: 0.6 lb./MMBtu Authority for Requirement: 567 IAC 23.3(2)"b"(2) Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-15(b)

Pollutant: SO<sub>2</sub> Emission Limits: 32.53 TPY, 500 parts per million by volume (Natural Gas), and 0.5 lb./MMBtu (ULSD) Authority for Requirement: 567 IAC 23.3(3)"e" Polk County Board of Health Rules and Regulations: Chapter V, Article IX, Section 5-27 (5) Polk County Board of Health Rules and Regulations: Chapter V, Article IX, Section 5-27 (2) (b) Polk County Construction Permit Numbers 1457 & 1458

Pollutant: NO<sub>x</sub> Emission Limit: 9.16 TPY Authority for Requirement: Polk County Construction Permit Numbers 1457 & 1458

Pollutant: VOC Emission Limit: 0.16 TPY Authority for Requirement: Polk County Construction Permit Numbers 1457 & 1458

Pollutant: CO Emission Limit: 2.20 TPY Authority for Requirement: Polk County Construction Permit Numbers 1457 & 1458

#### Boiler #3

Pollutant: Opacity Emission Limit: <20% Authority for Requirement: Polk County Construction Permit Number 1459 Polk County Board of Health Rules and Regulations: Chapter V, Article IV, Section 5-9

Pollutant: PM<sub>10</sub> Emission Limit: 0.39 TPY Authority for Requirement: Polk County Construction Permit Number 1459

Pollutant: PM Emission Limit: 0.6 lb./MMBtu Authority for Requirement: 567 IAC 23.3(2)"b"(2) Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-15(b)

Pollutant: SO <sub>2</sub>		
Emission Limits: 13.93 TP	Υ,	
500 parts	per million by volume (Natural Gas	s), and
0.5 lb./MI	MBtu (ULSD)	
Authority for Requirement:	567 IAC 23.3(3)"e"	
	567 IAC 22.108(14)	
	Polk County Board of Health Rule Article IX, Section 5-27 (5)	s and Regulations: Chapter V,
	Polk County Board of Health Rule Article IX, Section 5-27 (2) (b)	s and Regulations: Chapter V,
	Polk County Construction Permit N	Number 1459
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Pollutant: NO<sub>x</sub> Emission Limit: 3.92 TPY Authority for Requirement: Polk County Construction Permit Number 1459

Pollutant: VOC Emission Limit: 0.14 TPY Authority for Requirement: Polk County Construction Permit Number 1459

Pollutant: CO Emission Limit: 2.20 TPY Authority for Requirement: Polk County Construction Permit Number 1459

#### **Operational Limits & Requirements**

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All of the records shall be maintained on site for five (5) years.

Process throughput: Fuel sulfur content shall be limited to 0.0015% by weight. Fuel supplier certification of sulfur content for each fuel oil shipment received shall be maintained on site and made available to representatives of Polk County AQD upon request.

Work practice standards: Routine Periodic Inspection.

Authority for Requirement: Polk County Construction Permit Numbers 1457, 1458 & 1459 567 IAC 22.108(14)

Reporting & Record keeping: Whenever a boiler combusts fuel oil, the owner/operator shall record the length of time fuel oil was combusted and a description of the reason fuel oil was combusted (e.g., gas curtailment, gas supply interruption, startups, or periodic testing on liquid fuel). Said log shall include the 12-month rolling total, rolled monthly of the number of hours each unit was fired on fuel oil. Hours of operation on fuel oil shall be used to calculate actual emissions as a part of the annual EIQ submittal. When operating on natural gas, emissions shall be calculated from fuel usage and submitted annually as a part of the EIQ submittal.

Authority for Requirement: Polk County Board of Health Rules and Regulations, Chapter V, Article II, Section 5-4(2)

#### **Monitoring Requirements**

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

Visible Emissions (VE) shall be observed whenever any boiler is operated on fuel oil to ensure none occur during the operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight (8) 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 greater than or equal to 20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting a VE observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake VE readings at approximately 02-TV-019R3: 6/27/2022

2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, a VE observation shall be made during the next operating day where weather permits.

<u>Reporting & Record keeping</u>: Maintain a written record of the observation and any action resulting from the observation. Records required shall be maintained on-site for five (5) years and be made available to representatives of Polk County AQD upon request.

Authority for Requirement: 567 IAC 22.108(14)

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: 10**

Emission Unit vented through this Emission Point: 10A Emission Unit Description: Corporate 2 John Deere Model 6068HF285K Fire Pump Raw Material/Fuel: Ultra Low Sulfur Diesel Fuel (ULSD) Rated Capacity: 237 bhp, 11.2 gallons per hour

#### **Applicable Requirements**

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

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

Pollutant: Opacity Emission Limit: <20% Authority for Requirement: Polk County Construction Permit Number 3505 Polk County Board of Health Rules and Regulations: Chapter V, Article IV, Section 5-9

Pollutant: PM<sub>10</sub> Emission Limit: 0.48 lb/hr and 0.12 TPY Authority for Requirement: Polk County Construction Permit Number 3505

Pollutant: PM Emission Limits: 0.48 lb/hr and 0.12 TPY and 0.1 gr./ dscf Authority for Requirement: 567 IAC 23.3(2)"a" Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-14(b) Polk County Construction Permit Number 3505

Pollutant: SO<sub>2</sub> Emission Limits: 0.5 lb./MMBtu Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V, Article IX, Section 5-27 (2) (b) Polk County Construction Permit Number 3505

Pollutant: NO<sub>x</sub> Emission Limit: 6.76 lb/hr and 1.69 TPY Authority for Requirement: Polk County Construction Permit Number 3505

Pollutant: VOC Emission Limit: 0.55 lb/hr and 0.14 TPY Authority for Requirement: Polk County Construction Permit Number 3505

Pollutant: CO Emission Limit: 1.46 lb/hr and 0.36 TPY Authority for Requirement: Polk County Construction Permit Number 3505

#### **Operational Limits & Requirements**

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All of the records shall be maintained on site for five (5) years.

<u>Process throughput:</u> This emission unit shall only burn Ultra Low Sulfur Diesel Fuel (ULSD), with fuel sulfur content of not more than 0.0015% by weight. Fuel supplier certification of sulfur content for each fuel oil shipment received shall be maintained on site and made available to representatives of Polk County AQD upon request.

<u>Hours of operation</u>: Operation shall be limited to five hundred (500) hours per twelve (12) month period rolled and totaled monthly.

<u>Work practice standards</u>: Shall operate fire pump in a manner consistent with the definition of an emergency stationary internal combustion engine per §60.4219.

<u>Reporting & Record keeping</u>: A non-resettable totalizing hour meter shall be installed on the unit. Monthly hour readings shall be taken and logged on site. Said log shall include the 12-month rolling total, rolled monthly.

Authority for Requirement: Polk County Air Quality Construction Permit 3505

#### **NSPS Requirements**:

\*The owner or operator shall comply with all applicable requirements of 40 CFR 60 subpart IIII-Standards of Performance for Stationary Compression Ignition Internal Combustion Engines. \*\$60.4205(c) must comply with emission standards for fire pump engines in Table 4 of this subpart.

The emission standards that the engine must be certified by the manufacturer to meet are.			
Pollutant	Emission Standard	Regulatory Basis	
Particulate Matter (PM)	0.20 grams/kW-hr	40 CFR 60 Subpart IIII – Table 1	
NMHC+NOx	4.0 grams/kW-hr	40 CFR 60 Subpart IIII – Table 1	

The emission standards that the engine must be certified by the manufacturer to meet are:

\* §60.4206 owners and operators must operate and maintain stationary CI ICE that achieve the emission standards as required in §§60.4204 and 60.4205 over the entire life of the engine. \* The owner or operator must use fuel that meets requirements of §60.4207.

\*The owner or operator shall meet the applicable monitoring requirements of §60.4209.

\*The owner or operator shall meet the applicable monitoring requirements of §60.4211.

\*The owner or operator shall operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission related written instructions per §60.4211(a)(1).

\*The owner or operator shall change only those emission-related settings that are permitted by the manufacturer per 60.4211(a)(2).

\*The owner or operator shall meet the requirements of 40 CFR part 1068 as they apply to you per §60.4211(a)(3).

\*The owner or operator shall comply with the emission standards by purchasing an engine certified to the emission standards in §60.4204(b), or §60.4205(b) or (c), as applicable, for the same model year and maximum engine power. The engine must be installed and configured

according to the manufacturer's emission-related specifications, except as permitted in paragraph (g) of this section per §60.4211(c).

\* If you do not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, you must demonstrate compliance as required by 60.4211(g)(1), (2), and (3) per 60.4211(g).

\* Any required compliance testing shall be performed according to the methods and procedures of §60.4212.

\* The owner or operator shall record the run time each time the unit is operated. The log shall indicate the purpose of the operation, ie. maintenance check, readiness testing or emergency use per §60.4214.

\* The owner or operator shall comply with the applicable notification, reporting, and recordkeeping requirements of §60.4214.

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

#### **NESHAP Requirements:**

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

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

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

Authority for Requirement:40 CFR Part 60 Subpart IIII<br/>40 CFR Part 63 Subpart ZZZZ<br/>567 IAC 23.1(4)"cz"<br/>Polk County Board of Health Rules and Regulations Chapter V,<br/>Article VIII, Section 5-20 (zzzz)<br/>Polk County Construction Permit Number 3505

#### **Emission Point Characteristics**

The emission point shall conform to the specifications listed below.

Stack Height, (from the ground): 9' Stack Opening, (diameter): 3'' Exhaust Flow Rate: 450scfm Exhaust Temperature: 986°F Discharge Style: Vertical, unobstructed Authority for Requirement: Polk County Construction Permits Number 3505

The temperature and flowrate 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 either the

temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

#### **Monitoring Requirements**

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

Visible Emissions (VE) shall be observed during testing and maintenance periods to ensure none occur during the operation of the unit (EU 10A). No visible emissions are expected from this emission point under normal operating conditions. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight (8) 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 greater than or equal to 20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting a VE observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake VE readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, a VE observation shall be made during the next operating day where weather permits.

<u>Reporting & Record keeping</u>: Maintain a written record of the observation and any action resulting from the observation. Records required shall be maintained on-site for five (5) years and be made available to representatives of Polk County AQD upon request

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required?	Yes 🗌 No 🔀
Facility Maintained Operation & Maintenance Plan Required?	Yes 🗌 No 🖂
Compliance Assurance Monitoring (CAM) Plan Required?	Yes 🗌 No 🖂

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Authority for Requirement: 567 IAC 22.108(3)

#### **Emission Point ID Number: 11**

Emission Unit vented through this Emission Point: 11 Emission Unit Description: Corporate 2 Generator, Caterpillar Model 3508 Raw Material/Fuel: Ultra Low Sulfur Diesel Fuel (ULSD) Rated Capacity: 8.8 MMBtu/ Hr, 750 kW, and 58.2 gallons per hour

#### **Applicable Requirements**

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

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

Pollutant: Opacity Emission Limit: <20% Authority for Requirement: Polk County Construction Permit Number 1462 Polk County Board of Health Rules and Regulations: Chapter V, Article IV, Section 5-9

Pollutant: PM<sub>10</sub> Emission Limit: 0.29 TPY Authority for Requirement: Polk County Construction Permit Number 1462

Pollutant: PM Emission Limits: 0.1 gr./ dscf Authority for Requirement: 567 IAC 23.3(2)"a" Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-14(b)

Pollutant: SO<sub>2</sub> Emission Limits: 1.03 TPY, 0.5 lb./MMBtu Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V, Article IX, Section 5-27 (2) (b) Polk County Construction Permit Number 1462

Pollutant: NO<sub>x</sub> Emission Limit: 6.52 TPY Authority for Requirement: Polk County Construction Permit Number 1462

Pollutant: VOC Emission Limit: 0.18 TPY Authority for Requirement: Polk County Construction Permit Number 1462

Pollutant: CO Emission Limit: 1.73 TPY Authority for Requirement: Polk County Construction Permit Number 1462

#### **Operational Limits & Requirements**

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All of the records shall be maintained on site for five (5) years.

<u>Process throughput</u>: This emission unit shall only burn Ultra Low Sulfur Diesel Fuel (ULSD), with fuel sulfur content of not more than 0.0015% by weight. Fuel supplier certification of sulfur content shall be maintained on site for each shipment received and made available to representatives of this department (Polk County AQD) upon request.

<u>Reporting & Recordkeeping</u>: Actual emissions shall be calculated from fuel use and submitted annually as a part of the Title V permitting process.

<u>Work practice standards</u>: Hours of operation shall be limited to 500 hours per 12-month period rolled monthly. The unit shall be equipped with an operable, non-resettable totalizing hour meter. Monthly readings shall be taken, logged on site, and totaled for the preceding 12-month period in said log. Said log shall be maintained on site and made available to representatives of this department (Polk County AQD) upon request.

Authority for Requirement: Polk County Construction Permit Number 1462 567 IAC 22.108(14)

#### NESHAP:

The emergency engine is subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590(a)(1)(iii) this compression ignition emergency engine, located at an area source, is an existing stationary RICE as it was constructed prior to June 12, 2006.

#### Compliance Date

Per 63.6595(a)(1) you must comply with the provisions of Subpart ZZZZ that are applicable by May 3, 2013.

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

- 1. Change oil and filter every 500 hours of operation or annually, whichever comes first. (See 63.6625(i) for the oil analysis option to extend time frame of requirements.)
- 2. Inspect air cleaner every 1000 hours of operation or annually, whichever comes first, and replace as necessary.
- 3. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
- 4. Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
- 5. Install a non-resettable hour meter if one is not already installed.
- 6. Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

#### Operating Limits 40 CFR 63.6640(f)

- 1. Any operation other than emergency operation, maintenance and testing, emergency demand response and operation in non-emergency situations (*up to*) 50 hours per year is prohibited.
- 2. You may operate your emergency stationary RICE up to 100 combined hours per calendar year for maintenance checks and readiness testing. See 40 CFR 63.6640(f)(2) for additional information and restrictions.
- 3. You may operate your emergency stationary RICE up to 50 hours per calendar year for non-emergency situations, but those 50 hours are counted toward the 100 hours of maintenance and testing and emergency demand response. Except as provided in 40 CFR 63.6640(f)(4)(i) and (ii), the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

#### Recordkeeping Requirements 40 CFR 63.6655

1. Keep records of the maintenance conducted on the stationary RICE.

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

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

1. An initial notification is not required per 40 CFR 63.6645(a)(5)

2. A report may be required for failure to perform the work practice requirements on the schedule required in Table 2d. (See Footnote 2 of Table 2d for more information.)

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

#### **Monitoring Requirements**

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

Visible Emissions (VE) shall be observed during testing and maintenance periods to ensure none occur during the operation of the unit (EU 11). No visible emissions are expected from this emission point under normal operating conditions. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight (8) 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 greater than or equal to 20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting a VE observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake VE readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, a VE observation shall be made during the next operating day where weather permits.

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<u>Reporting & Record keeping</u>: Maintain a written record of the observation and any action resulting from the observation. Records required shall be maintained on-site for five (5) years and be made available to representatives of Polk County AQD upon request.

Authority for Requirement: 567 IAC 22.108(14)

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: 14**

Emission Unit vented through this Emission Point: 14A Emission Unit Description: Corporate 1 Emergency Generator, Cummins Model DQFAS Raw Material/Fuel: Ultra Low Sulfur Diesel Fuel (ULSD) Rated Capacity: 1,112 kW, and 72.2 gallons per hour

#### Applicable Requirements

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

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

Pollutant: Opacity <sup>(1)</sup> Emission Limit: <15% opacity during lugging Authority for Requirement: §89.113 Polk County Construction Permit Number 2929 Pollutant: Opacity <sup>(1)</sup> Emission Limit: <20% at all other times Authority for Requirement: Polk County Construction Permit Number 2929

<sup>(1)</sup>An exceedance of the opacity limit will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Local Program may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>2.5</sub> Emission Limit: 0.49 lb/hr, 0.12 TPY Authority for Requirement: Polk County Construction Permit Number 2929

Pollutant: PM<sub>10</sub> Emission Limit: 0.49 lb/hr, 0.12 TPY Authority for Requirement: Polk County Construction Permit Number 2929

Pollutant: PM Emission Limits: 0.49 lb/hr, 0.12 TPY, 0.1 gr./ dscf , 0.20 gram/kW-hr Authority for Requirement: 40 CFR 60 Subpart IIII 567 IAC 23.1 (2) "yyy" Polk County Construction Permit Number 2929

Pollutant: SO<sub>2</sub> Emission Limits: 0.02 lb/hr, 0.005 TPY, 0.5 lb./MMBtu Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V, Article IX, Section 5-27 (2) (b) Polk County Construction Permit Number 2929 Pollutant: NMHC+NO<sub>x</sub> Emission Limit: 15.69 lb/hr, 3.92 TPY, 6.4 gram/kW-hr Authority for Requirement: 40 CFR 60 Subpart IIII 567 IAC 23.1 (2) "yyy" Polk County Construction Permit Number 2929

Pollutant: VOC Emission Limit: 1.05 lb/hr, 0.26 TPY Authority for Requirement: Polk County Construction Permit Number 2929

Pollutant: CO Emission Limit: 8.58 lb/hr, 2.15 TPY, 3.5 gram/kW-hr Authority for Requirement: 40 CFR 60 Subpart IIII 567 IAC 23.1 (2) "yyy" Polk County Construction Permit Number 2929

#### **Operational Limits & Requirements**

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All of the records shall be maintained on site for five (5) years.

#### <u>NESHAP</u>

This equipment is subject to the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE NESHAP) [40 CFR Part 63 Subpart ZZZZ].

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

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

#### Work Practice Standards, Reporting & Recordkeeping

\*The owner or operator shall comply with all applicable requirements of 40 CFR 60 subpart IIII-Standards of Performance for Stationary Compression Ignition Internal Combustion Engines. \*§60.4205(b) must comply with emission standards for new engines in §60.4202.

\*§60.4202(a)(2) must comply with Tier 2 or Tier 3 emission standards for new nonroad CI engines as described in 40 CFR 1039, Appendix I, for all pollutants.

\* §60.4206 owners and operators must operate and maintain stationary CI ICE that achieve the emission standards as required in §§60.4204 and 60.4205 over the entire life of the engine. \* The owner or operator must use fuel that meets requirements of §60.4207.

\*The owner or operator shall meet the applicable monitoring requirements of §60.4209.

\*The owner or operator shall meet the applicable monitoring requirements of §60.4211.

\*The owner or operator shall operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission related written instructions per 60.4211(a)(1).

\*The owner or operator shall change only those emission-related settings that are permitted by the manufacturer per 60.4211(a)(2).

\*The owner or operator shall meet the requirements of 40 CFR part 1068 as they apply to you per §60.4211(a)(3).

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\*The owner or operator shall comply with the emission standards by purchasing an engine certified to the emission standards in §60.4204(b), or §60.4205(b) or (c), as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in paragraph (g) of this section per §60.4211(c).

\* If you do not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, you must demonstrate compliance as required by 60.4211(g)(1), (2), and (3) per 60.4211(g).

\* Any required compliance testing shall be performed according to the methods and procedures of §60.4212.

\* The owner or operator shall comply with the applicable notification, reporting, and recordkeeping requirements of §60.4214.

\* The owner or operator shall record the run time each time the unit is operated. The log shall indicate the purpose of the operation, ie. maintenance check, readiness testing or emergency use per §60.4214.

#### **Additional Requirements**

\* Operation shall be limited to five hundred (500) hours per twelve (12) month period rolled and totaled monthly.

\* A non-resettable totalizing hour meter shall be installed on the unit.

\* Monthly readings shall be taken and logged on site. Said log shall include the 12-month rolling total, rolled monthly.

\* The generator shall be operated in a manner consistent with the definition of an emergency stationary non-fire pump internal combustion engine per §60.4219.

\* Sulfur content of fuel shall not exceed 0.0015%. Fuel supplier certification of sulfur content shall be kept on site for each delivery of fuel oil purchased.

\* All records shall be kept on site for a minimum period of five years and be made available to Polk County Air Quality personnel upon request.

Authority for Requirement: Polk County Construction Permit Number 2929

#### **Emission Point Characteristics**

The emission point shall conform to the specifications listed below.

Stack Height (feet): 0
Stack Diameter (inches): 6
Stack Exhaust Flow Rate (acfm): 7,450
Stack Temperature (°F): 890
Discharge Style: Horizontal, Gooseneck type
Authority for Requirement: Polk County Construction Permit Number 2929

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 characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

#### **Monitoring Requirements**

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

Visible Emissions (VE) shall be observed during testing and maintenance periods to ensure none occur during the operation of the unit (EU 14A). No visible emissions are expected from this emission point under normal operating conditions. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight (8) 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 greater than or equal to 20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting a VE observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake VE readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, a VE observation shall be made during the next operating day where weather permits.

<u>Reporting & Record keeping</u>: Maintain a written record of the observation and any action resulting from the observation. Records required shall be maintained on-site for five (5) years and be made available to representatives of Polk County AQD upon request.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes 🗌 No 🖂	
Facility Maintained Operation & Maintenance Plan Required? Yes 🗌 No 🖂	]

Compliance Assurance Monitoring (CAM) Plan Required? Yes 🗌 No 🔀

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Authority for Requirement: 567 IAC 22.108(3)

#### **Emission Point ID Number: 18**

Emission Unit vented through this Emission Point: 18 Emission Unit Description: Corporate 4 Generator Set, Cummins-Onan Model D28 KTTA50-G2 Raw Material/Fuel: Ultra Low Sulfur Diesel Fuel (ULSD) Rated Capacity: 5.64686 MMBtu/Hr, 1655 kW, and 103.0 gallons per hour

#### Applicable Requirements

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

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

Pollutant: Opacity Emission Limit: <20% opacity Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V, Article IV, Section 5-9 Polk County Construction Permit Number 0754 Modified

Pollutant: PM<sub>10</sub> Emission Limits: 0.14 lb/hr and 1.72 TPY Authority for Requirement: Polk County Construction Permit Number 0754 Modified

Pollutant: PM Emission Limits: 0.14 lb/hr and 1.72 TPY, 0.10 gr/dscf Authority for Requirement: 567 IAC 23.3(2)"a" Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-14(b) Polk County Construction Permit Number 0754 Modified

Pollutant: SO<sub>2</sub> Emission Limits: 2.91 lb/hr, 2.48 TPY and 0.5 lb/MMBtu Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V, Article IX, Section 5-27 (2) (b) Polk County Construction Permit Number 0754 Modified

Pollutant: NO<sub>x</sub> Emission Limits: 46.14 lb/hr and 39.22 TPY Authority for Requirement: Polk County Construction Permit Number 0754 Modified

Pollutant: VOC Emission Limits: 1.29 lb/hr and 1.10 TPY Authority for Requirement: Polk County Construction Permit Number 0754 Modified

Pollutant: CO Emission Limits: 12.26 lb/hr and 10.42 TPY Authority for Requirement: Polk County Construction Permit Number 0754 Modified JVB 30 02-TV-019R3: 6/27/2022

#### **Operational Limits & Requirements**

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All of the records shall be maintained on site for five (5) years.

<u>Process throughput</u>: This emission unit shall only burn Ultra Low Sulfur Diesel Fuel (ULSD), with fuel sulfur content of not more than 0.0015% by weight. Fuel supplier certification of sulfur content shall be maintained on site and made available to representatives of this department (Polk County AQD) upon request.

<u>Reporting & Recordkeeping</u>: Actual emissions shall be calculated from fuel use and submitted annually as a part of the Title V permitting process.

<u>Work practice standards</u>: Hours of operation shall be limited to 1700 hours per 12-month period rolled monthly. The unit shall be equipped with an operable, non-resettable totalizing hour meter. Monthly readings shall be taken, logged on site, and totaled for the preceding 12-month period in said log. Said log shall be maintained on site and made available to representatives of this department (Polk County AQD) upon request.

Authority for Requirement: Polk County Construction Permit Number 0754 Modified

#### NESHAP:

The emergency engine is subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590(a)(1)(iii) this compression ignition emergency engine, located at an area source, is an existing stationary RICE as it was constructed prior to June 12, 2006.

#### Compliance Date

Per 63.6595(a)(1) you must comply with the provisions of Subpart ZZZZ that are applicable by May 3, 2013.

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

- 1. Change oil and filter every 500 hours of operation or annually, whichever comes first. (See 63.6625(i) for the oil analysis option to extend time frame of requirements.)
- 2. Inspect air cleaner every 1000 hours of operation or annually, whichever comes first, and replace as necessary.
- 3. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
- 4. Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
- 5. Install a non-resettable hour meter if one is not already installed.
- 6. Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

#### Operating Limits 40 CFR 63.6640(f)

- 1. Any operation other than emergency operation, maintenance and testing, emergency demand response and operation in non-emergency situations (*up to*) 50 hours per year is prohibited.
- 2. You may operate your emergency stationary RICE up to 100 combined hours per calendar year for maintenance checks and readiness testing. See 40 CFR 63.6640(f)(2) for additional information and restrictions.
- 3. You may operate your emergency stationary RICE up to 50 hours per calendar year for non-emergency situations, but those 50 hours are counted toward the 100 hours of maintenance and testing and emergency demand response. Except as provided in 40 CFR 63.6640(f)(4)(i) and (ii), the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

#### Recordkeeping Requirements 40 CFR 63.6655

1. Keep records of the maintenance conducted on the stationary RICE.

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

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

1. An initial notification is not required per 40 CFR 63.6645(a)(5)

2. A report may be required for failure to perform the work practice requirements on the schedule required in Table 2d. (See Footnote 2 of Table 2d for more information.)

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

#### **Monitoring Requirements**

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

Visible Emissions (VE) shall be observed during testing and maintenance periods to ensure none occur during the operation of the unit (EU 18). No visible emissions are expected from this emission point under normal operating conditions. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight (8) 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 greater than or equal to 20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting a VE observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake VE readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, a VE observation shall be made during the next operating day where weather permits.

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<u>Reporting & Record keeping</u>: Maintain a written record of the observation and any action resulting from the observation. Records required shall be maintained on-site for five (5) years and be made available to representatives of Polk County AQD upon request.

Authority for Requirement: 567 IAC 22.108(14)

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: 19**

Emission Unit vented through this Emission Point: 19 Emission Unit Description: Corporate 3 Emergency Generator, Ford Model LSGD8751 Raw Material/Fuel: Natural Gas Rated Capacity: 150 kW and 0.000486 MMCF/Hr

#### **Applicable Requirements**

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

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

Pollutant: Opacity Emission Limit: <20% Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V, Article IV, Section 5-9 Polk County Construction Permit Number 1463

Pollutant: PM<sub>10</sub> Emission Limit: 0.01 TPY Authority for Requirement: Polk County Construction Permit Number 1463

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

Pollutant: SO<sub>2</sub> Emission Limits: 0.01 TPY and 500 parts per million by volume Authority for Requirement: 567 IAC 23.3(3)"e" Polk County Board of Health Rules and Regulations: Chapter V, Article IX, Section 5-27(5) Polk County Construction Permit Number 1463

Pollutant: NO<sub>x</sub> Emission Limit: 0.01 TPY Authority for Requirement: Polk County Construction Permit Number 1463

Pollutant: VOC Emission Limit: 0.01 TPY Authority for Requirement: Polk County Construction Permit Number 1463

Pollutant: CO Emission Limit: 0.01TPY Authority for Requirement: Polk County Construction Permit Number 1463

#### **Operational Limits & Requirements**

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All of the records shall be maintained on site for five (5) years.

<u>Work practice standards</u>: Hours of operation shall be limited to 500 hours per 12-month period rolled monthly. The unit shall be equipped with an operable, non-resettable totalizing hour meter. Monthly readings shall be taken, logged on site, and totaled for the preceding 12-month period in said log. Said log shall be maintained on site and made available to representatives of this department (Polk County AQD) upon request.

Authority for Requirement: Polk County Construction Permit Number 1463

#### NESHAP:

The emergency engine is subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590(a)(1)(iii) this spark ignition emergency engine, located at an area source, is an existing stationary RICE as it was constructed prior to June 12, 2006.

#### Compliance Date

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

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

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

#### Operating Limits 40 CFR 63.6640(f)

- 1. Any operation other than emergency operation, maintenance and testing, emergency demand response and operation in non-emergency situations (*up to*) 50 hours per year is prohibited.
- 2. You may operate your emergency stationary RICE up to 100 combined hours per calendar year for maintenance checks and readiness testing. See 40 CFR 63.6640(f)(2) for additional information and restrictions.
- 3. You may operate your emergency stationary RICE up to 50 hours per calendar year for non-emergency situations, but those 50 hours are counted toward the 100 hours of

maintenance and testing and emergency demand response. Except as provided in 40 CFR 63.6640(f)(4)(i) and (ii), the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

Recordkeeping Requirements 40 CFR 63.6655

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

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

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

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

#### **Monitoring Requirements**

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

Agency Approved Operation & Maintenance Plan Required?	Yes 🗌 N	lo 🖂

Facility Maintained Operation & Maintenance Plan Required? Yes 🗌 No 🖂

Compliance Assurance Monitoring (CAM) Plan Required? Yes 🗌 No 🖂

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Authority for Requirement: 567 IAC 22.108(3)

### **Emission Point ID Number: 20**

Emission Unit vented through this Emission Point: 20 Emission Unit Description: Underground Storage Tank, Owens Corning Model D-3 Raw Material/Fuel: Diesel Fuel Rated Capacity: 25,000 Gallon

#### **Applicable Requirements**

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

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

Pollutant: Opacity Emission Limit: No visible emissions Authority for Requirement: Polk County Construction Permit Number 1453

Pollutant: VOC Emission Limit: 0.02 TPY Authority for Requirement: Polk County Construction Permit Number 1453

#### **Operational Limits & Requirements**

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All of the records shall be maintained on site for five (5) years.

Process throughput:

• The tank (EU 20) shall be limited to a maximum of 907,500 gallons of distillate oil per 12-month period rolled monthly.

Work practice standards:

- The owner or operator shall comply with all applicable conditions of 40 CFR Part 60 Subpart Kb.
- Routine Periodic Inspection

Reporting & Record keeping:

- A log of throughput shall be maintained on site and be made available to representatives of this department (Polk County AQD) upon request.
- The owner or operator shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Said records shall be kept for the life of the source (per § 40.116b(b)).

Authority for Requirement:40 CFR Part 60 Subpart Kb567 IAC 23.1 (2) "ddd"Polk County Board of Health Rules and Regulations: Chapter V,<br/>Article VI, Section 5-16 (n) (56)Polk County Construction Permit Number 1453

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

Agency Approved Operation & Maintenance Plan Required? Yes	5 🗌 No 🖂
Facility Maintained Operation & Maintenance Plan Required? Y	es 🗌 No 🖂

Yes 🗌 No 🖂 Compliance Assurance Monitoring (CAM) Plan Required?

Authority for Requirement: 567 IAC 22.108(3)

### **Emission Point ID Number: 21**

Emission Unit vented through this Emission Point: 21 Emission Unit Description: Underground Storage Tank Raw Material/Fuel: Diesel Fuel Rated Capacity: 20,000 Gallon

#### Applicable Requirements

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

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

Pollutant: Opacity Emission Limit: No visible emissions Authority for Requirement: Polk County Construction Permit Number 1456

Pollutant: VOC Emission Limit: 0.01 TPY Authority for Requirement: Polk County Construction Permit Number 1456

#### **Operational Limits & Requirements**

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All of the records shall be maintained on site for five (5) years.

Process throughput:

• The tank (EU 21) shall be limited to a maximum of 387,400 gallons of distillate oil per 12-month period rolled monthly.

Work practice standards:

- The owner or operator shall comply with all applicable conditions of 40 CFR Part 60 Subpart Kb.
- Routine Periodic Inspection

Reporting & Record keeping:

- A log of throughput shall be maintained on site and be made available to representatives of this department (Polk County AQD) upon request.
- The owner or operator shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Said records shall be kept for the life of the source (per § 40.116b(b)).

Authority for Requirement:40 CFR Part 60 Subpart Kb567 IAC 23.1 (2) "ddd"Polk County Board of Health Rules and Regulations: Chapter V,<br/>Article VI, Section 5-16 (n) (56)Polk County Construction Permit Number 1456

#### **Monitoring Requirements**

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

Agency Approved Operation & Maintenance Plan Required? Ye	es 🗌 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: 24**

Emission Unit vented through this Emission Point: 24 Emission Unit Description: 801 Grand Emergency Generator, Kato-Waukesha Model L6670 Raw Material/Fuel: Ultra Low Sulfur Diesel Fuel (ULSD) Rated Capacity: 100 gallons per hour, 1175 kW

#### **Applicable Requirements**

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

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

Pollutant: Opacity Emission Limit: <20% Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V, Article IV, Section 5-9 Polk County Construction Permit Number 1464

Pollutant: PM<sub>10</sub> Emission Limit: 0.49 TPY Authority for Requirement: Polk County Construction Permit Number 1464

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

Pollutant: SO<sub>2</sub> Emission Limits: 1.77 TPY and 0.5 lb./MMBtu Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V, Article IX, Section 5-27 (2) (b) Polk County Construction Permit Number 1464

Pollutant: NO<sub>x</sub> Emission Limit: 11.2 TPY Authority for Requirement: Polk County Construction Permit Number 1464

Pollutant: VOC Emission Limit: 0.32 TPY Authority for Requirement: Polk County Construction Permit Number 1464

Pollutant: CO Emission Limit: 2.98 TPY Authority for Requirement: Polk County Construction Permit Number 1464

#### **Operational Limits & Requirements**

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All of the records shall be maintained on site for five (5) years.

<u>Process throughput</u>: This emission unit shall only burn Ultra Low Sulfur Diesel Fuel (ULSD), with fuel sulfur content of not more than 0.0015% by weight. Fuel supplier certification of sulfur content shall be maintained on site for each shipment received and made available to representatives of this department (Polk County AQD) upon request.

<u>Reporting & Recordkeeping</u>: Actual emissions shall be calculated from fuel use and submitted annually as a part of the Title V permitting process.

<u>Work practice standards</u>: Hours of operation shall be limited to 500 hours per 12-month period rolled monthly. The unit shall be equipped with an operable, non-resettable totalizing hour meter. Monthly readings shall be taken, logged on site, and totaled for the preceding 12-month period in said log. Said log shall be maintained on site and made available to representatives of this department (Polk County AQD) upon request.

#### Authority for Requirement: Polk County Construction Permit Number 1464 567 IAC 22.108(14)

#### NESHAP:

The emergency engine is subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590(a)(1)(iii) this spark ignition emergency engine, located at an area source, is an existing stationary RICE as it was constructed prior to June 12, 2006.

#### Compliance Date

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

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

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

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#### Operating Limits 40 CFR 63.6640(f)

- 1. Any operation other than emergency operation, maintenance and testing, emergency demand response and operation in non-emergency situations (*up to*) 50 hours per year is prohibited.
- 2. You may operate your emergency stationary RICE up to 100 combined hours per calendar year for maintenance checks and readiness testing. See 40 CFR 63.6640(f)(2) for additional information and restrictions.
- 3. You may operate your emergency stationary RICE up to 50 hours per calendar year for non-emergency situations, but those 50 hours are counted toward the 100 hours of maintenance and testing and emergency demand response. Except as provided in 40 CFR 63.6640(f)(4)(i) and (ii), the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

#### Recordkeeping Requirements 40 CFR 63.6655

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

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

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

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

#### **Monitoring Requirements**

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

Visible Emissions (VE) shall be observed during testing and maintenance periods to ensure none occur during the operation of the unit (EU 24). No visible emissions are expected from this emission point under normal operating conditions. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight (8) 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 greater than or equal to 20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting a VE observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake VE readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, a VE observation shall be made during the next operating day where weather permits.

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<u>Reporting & Record keeping</u>: Maintain a written record of the observation and any action resulting from the observation. Records required shall be maintained on-site for five (5) years and be made available to representatives of Polk County AQD upon request.

Authority for Requirement: 567 IAC 22.108(14)

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: 28**

Emission Unit vented through this Emission Point: 28 Emission Unit Description: 701 Park Street Parking Ramp Emergency Generator, Caterpillar Model D125-6 Raw Material/Fuel: Ultra Low Sulfur Diesel Fuel (ULSD) Rated Capacity: 10.7 gallons per hour, 125 kW

#### **Applicable Requirements**

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

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

Pollutant: Opacity Emission Limit: <20% Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V, Article IV, Section 5-9 Polk County Construction Permit Number 2065 Pollutant: PM Emission Limit: 0.08 lbs/hour; 0.02 TPY; and 0.3 g/kW-hr Authority for Requirement: Polk County Construction Permit Number 2065 40 CFR 60 Subpart IIII 567 IAC 23.1 (2) "yyy" Polk County Board of Health Rules and Regulations: Chapter V, Article VIII, Section 5-20 (zzzz) Pollutant: SO<sub>2</sub> Emission Limits: 0.34 lb/hr, 0.08 TPY and 0.5 lb/MMBtu Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V, Article IX, Section 5-27 (2) (b) Polk County Construction Permit Number 2065 Pollutant: NMHC+NOx Emission Limit: 1.10 lbs./ hour; 0.28 TPY; and 4.0 g/kW-hr Authority for Requirement: Polk County Construction Permit Number 2065 40 CFR 60 Subpart IIII 567 IAC 23.1 (2) "yyy" Polk County Board of Health Rules and Regulations: Chapter V, Article VIII, Section 5-20 (zzzz)

Pollutant: VOC Emission Limit: 0.42 lbs./ hour and 0.11 TPY Authority for Requirement: Polk County Construction Permit Number 2065 Pollutant: CO Emission Limit: 1.38 lb./ hour; 0.34 TPY; and 5.0 g/kW-hr Authority for Requirement: Polk County Construction Permit Number 2065 40 CFR 60 Subpart IIII 567 IAC 23.1 (2) "yyy" Polk County Board of Health Rules and Regulations: Chapter V, Article VIII, Section 5-20 (zzzz)

#### **Operational Limits & Requirements**

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. All of the records shall be maintained on site for five (5) years.

<u>Process throughput</u>: This emission unit shall only burn Ultra Low Sulfur Diesel Fuel (ULSD), with fuel sulfur content of not more than 0.0015% by weight. Fuel supplier certification of sulfur content shall be maintained on site for each shipment received and made available to representatives of this department (Polk County AQD) upon request.

<u>Reporting & Recordkeeping</u>: Actual emissions shall be calculated from fuel use and submitted annually as a part of the Title V permitting process.

Work practice standards:

• Hours of operation shall be limited to 500 hours per 12-month period rolled monthly. The unit shall be equipped with an operable, non-resettable totalizing hour meter. Monthly readings shall be taken, logged on site, and totaled for the preceding 12-month period in said log. Said log shall be maintained on site and made available to representatives of this department (Polk County AQD) upon request.

• The owner or operator may operate the emergency stationary ICE for the purposed of maintenance check and readiness testing. Maintenance checks and readiness testing is limited to 100 hours per 12-month period, rolled monthly. Any operation other than emergency operation, and maintenance and testing as permitted in this section is prohibited per §60.4211(e).

Work practice standards:

• Routine Periodic Inspection.

• All applicable conditions of 40 CFR 63 Subpart ZZZZ-National Emission s Standard for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines shall be complied with.

• All applicable conditions of 40 CFR 60 Subpart IIII-Standards of Performance for Stationary Compression Ignition Internal Combustion Engines shall be complied with.

• The owner or operator must operate and maintain the stationary CI ICE according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine per §60.4206.

• The generator shall be operated in a manner consistent with the definition of an emergency stationary non-fire pump internal combustion engine per §60.4219.

• The stationary combustion ignition engine must be operated according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, owners and operators may only change those settings that are

permitted by the manufacturer. You must also meet the requirements of 40 CFR part 1068, as they apply to you per §60.4211(a).

• The owner or operator must purchase an engine certified according to 40 CFR parts 1039 and 1042 as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications per §60.4211(b)(1).

• The owner or operator must comply with Tier 2 or Tier 3 emission standards for new non-road CI engines as described in 40 CFR 1039, Appendix I, for all pollutants per §60.4202(a)(2).

Reporting & Record keeping:

• The owner or operator shall keep records of engine manufacturer data indicating compliance with the standards per §60.4207(b).

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

Authority for Requirement: Polk County Construction Permit Number 2065

567 IAC 22.108(14)
40 CFR 60 Subpart IIII
567 IAC 23.1 (2) "yyy"
40 CFR 63 Subpart ZZZZ
567 IAC 23.1 (4) "cz"
Polk County Board of Health Rules and Regulations: Chapter V, Article VIII, Section 5-20 (zzzz)

#### <u>NESHAP</u>

This equipment is subject to the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE NESHAP) [40 CFR Part 63 Subpart ZZZZ].

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

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

#### **Emission Point Characteristics**

The emission point shall conform to the specifications listed below.

Stack Height, (from the ground): 6.75 feet Stack Opening, (diameter): 8" Circular Exhaust Flow Rate: 1,049 acfm Exhaust Temperature: 819 °F Discharge Style: Vertical obstructed Authority for Requirement: Polk County Construction Permit Number 2065 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 characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

#### **Monitoring Requirements**

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

Visible Emissions (VE) shall be observed during testing and maintenance periods to ensure none occur during the operation of the unit (EU 28). No visible emissions are expected from this emission point under normal operating conditions. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight (8) 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 greater than or equal to 20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting a VE observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake VE readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, a VE observation shall be made during the next operating day where weather permits.

<u>Reporting & Record keeping</u>: Maintain a written record of the observation and any action resulting from the observation. Records required shall be maintained on-site for five (5) years and be made available to representatives of Polk County AQD upon request.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes 🗌 No 🔀	
Facility Maintained Operation & Maintenance Plan Required? Yes 🗌 No 🖂	
Compliance Assurance Monitoring (CAM) Plan Required? Yes 🗌 No 🔀	

Authority for Requirement: 567 IAC 22.108(3)

# **IV. General Conditions**

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

### **G1. Duty to Comply**

1. The permittee must comply with all conditions of the Title V permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for a permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. *567 IAC 22.108(9)"a"* 

2. Any compliance schedule shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based. 567 IAC 22.105 (2)"h"(3)

3. Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be enforceable by the administrator and are incorporated into this permit. 567 IAC 22.108 (1)"b"

4. Unless specified as either "state enforceable only" or "local program enforceable only", all terms and conditions in the permit, including provisions to limit a source's potential to emit, are enforceable by the administrator and citizens under the Act. *567 IAC 22.108 (14)* 

5. It shall not be a defense for a permittee, in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. 567 IAC 22.108 (9)"b"

6. For applicable requirements with which the permittee is in compliance, the permittee shall continue to comply with such requirements. For applicable requirements that will become effective during the permit term, the permittee shall meet such requirements on a timely basis. *567 IAC 22.108(15)"c"* 

### **G2.** Permit Expiration

1. Except as provided in rule 567—22.104(455B), permit expiration terminates a source's right to operate unless a timely and complete application for renewal has been submitted in accordance with rule 567—22.105(455B). *567 IAC 22.116(2)* 

2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall submit on forms or electronic format specified by the Department to the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, Wallace State Office Building, 502 E 9th St., Des Moines, IA 50319-0034, two copies (three if your facility is located in Linn or Polk county) of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. An additional copy must also be sent to U.S. EPA Region VII, Attention: Chief of Air Permits, 11201 Renner Blvd., Lenexa, KS 66219. Additional copies to local programs or EPA are not required for application materials submitted through the electronic format specified by the Department. The application must include all emission points, emission units, air pollution

control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in 567 IAC 22.105(2). 567 IAC 22.105

#### G3. Certification Requirement for Title V Related Documents

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

#### **G4. Annual Compliance Certification**

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

#### **G5. Semi-Annual Monitoring Report**

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

#### **G6.** Annual Fee

1. The permittee is required under subrule 567 IAC 22.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.

2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.

3. The emissions inventory shall be submitted annually by March 31 with forms specified by the department documenting actual emissions for the previous calendar year.

4. The fee shall be submitted annually by July 1 with forms specified by the department.

5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.

6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.

7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.

8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d".

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

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

1. Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;

2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;

3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and

4. Sample or monitor, at reasonable times, substances or parameters for the purpose of ensuring compliance with the permit or other applicable requirements. 567 IAC 22.108 (15)"b" and Chapter V, Article II, 5-3 and 5-4

#### **G8. Duty to Provide Information**

The permittee shall furnish to the director, within a reasonable time, any information that the director may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the director copies of records required to be kept by the permit, or for information claimed to be confidential, the permittee shall furnish such records directly to the administrator of EPA along with a claim of confidentiality. *567 IAC 22.108 (9)"e"* and *Chapter V, Article X, 5-46 and 5-47* 

#### **G9.** General Maintenance and Repair Duties

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

1. Maintain and operate the equipment or control equipment at all times in a manner consistent with good practice for minimizing emissions.

2. Remedy any cause of excess emissions in an expeditious manner.

3. Minimize the amount and duration of any excess emission to the maximum extent possible during periods of such emissions. These measures may include but not be limited to the use of clean fuels, production cutbacks, or the use of alternate process units or, in the case of utilities, purchase of electrical power until repairs are completed.

4. Schedule, at a minimum, routine maintenance of equipment or control equipment during periods of process shutdowns to the maximum extent possible. *567 IAC 24.2(1) and Chapter V, Article VI, Section 5-17.1* 

#### G10. Recordkeeping Requirements for Compliance Monitoring

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:

- a. The date, place and time of sampling or measurements
- b. The date the analyses were performed.
- c. The company or entity that performed the analyses.
- d. The analytical techniques or methods used.
- e. The results of such analyses; and
- f. The operating conditions as existing at the time of sampling or measurement.
- g. The records of quality assurance for continuous compliance monitoring systems
- (including but not limited to quality control activities, audits and calibration drifts.)

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

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

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

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

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

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

a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 22;

b. Compliance test methods specified in 567 Chapter 25; or

c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.

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

a. Any monitoring or testing methods provided in these rules; or

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

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

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

#### G13. Hazardous Release

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

#### G14. Excess Emissions and Excess Emissions Reporting Requirements

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

#### 2. Excess Emissions Reporting

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

i. The identity of the equipment or source operation from which the excess emission originated and the associated stack or emission point.

ii. The estimated quantity of the excess emission.

iii. The time and expected duration of the excess emission.

iv. The cause of the excess emission.

v. The steps being taken to remedy the excess emission.

vi. The steps being taken to limit the excess emission in the interim period.

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

i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.

ii. The estimated quantity of the excess emission.

iii. The time and duration of the excess emission.

iv. The cause of the excess emission.

v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.

vi. The steps that were taken to limit the excess emission.

vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. 567 IAC 24.1(1)-567 IAC 24.1(4) and Chapter V, Article VI, 5-17

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

with technology based limitations if it can be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that:

a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;

b. The facility at the time was being properly operated;

c. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements of the permit; and

d. The permittee submitted notice of the emergency to the director by certified mail within two working days of the time when the emissions limitations were exceeded due to the emergency. This notice fulfills the requirement of paragraph 22.108(5)"b." – See G15. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

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

#### G15. Permit Deviation Reporting Requirements

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

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

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

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

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:

a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions); c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);

d. The changes are not subject to any requirement under Title IV of the Act (revisions affecting Title IV permitting are addressed in rules 567—22.140(455B) through 567 - 22.144(455B));

e. The changes comply with all applicable requirements.

f. For each such change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:

i. A brief description of the change within the permitted facility,

ii. The date on which the change will occur,

iii. Any change in emission as a result of that change,

iv. The pollutants emitted subject to the emissions trade,

v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.

vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and

vii. Any permit term or condition no longer applicable as a result of the change. 567 IAC 22.110(1)

2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC* 22.110(2)

3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). 567 IAC 22.110(3)

4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)* 

5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 22.108(11)* 

#### G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

a. An administrative permit amendment is a permit revision that does any of the following:

i. Correct typographical errors

ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;

iii. Require more frequent monitoring or reporting by the permittee; or iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.

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

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

2. Minor Title V Permit Modification.

a. Minor Title V permit modification procedures may be used only for those permit modifications that satisfy all of the following:

i. Do not violate any applicable requirement;

ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit;

iii. Do not require or change a case by case determination of an emission limitation or other standard, or an increment analysis;

iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act;

v. Are not modifications under any provision of Title I of the Act; and vi. Are not required to be processed as significant modification under rule 567 - 22.113(455B).

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

i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;

ii. The permittee's suggested draft permit;

iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used; and

iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).

c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against the facility.

3. Significant Title V Permit Modification.

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

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

#### G19. Duty to Obtain Construction Permits

Unless exempted in 567 IAC 22.1(2) and Chapter V, Article X, 5-33, or to meet the parameters established in 567 IAC 22.1(1)"c", the permittee shall not construct, install, reconstruct or alter any equipment, control equipment or anaerobic lagoon without first obtaining a construction permit, or conditional permit, or permit pursuant to rule 567 IAC 22.8 & Polk County Chapter V, Article X, 5-28, or permits required pursuant to rules 567 IAC 22.4, 567 IAC 22.5, 567 IAC 31.3, and 567 IAC 33.3 as required in 567 IAC 22.1(1). A permit shall be obtained prior to the initiation of construction, installation or alteration of any portion of the stationary source or anaerobic lagoon. *567 IAC 22.1(1)* and *Chapter V, Article X, 5-28* 

#### G20. Asbestos

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

#### G21. Open Burning

The permittee is prohibited from conducting open burning, except as may be allowed by *Chapter V, Article III, 5-7- State Only* 

#### G22. Acid Rain (Title IV) Emissions Allowances

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

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

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

a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.

b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.

c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.

d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.

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

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

b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158. c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161. d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)

e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.

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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 ozonedepleting 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 <u>not</u> required if the permit has a remaining term of less than three years;

b. Reopening and revision on this ground is <u>not</u> 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 <u>not</u> 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; JVB 60 02-TV-019R3: 6/27/2022

b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;

c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement. d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. 567 IAC 22.114(1)

4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. 567 IAC 22.114(2)

5. A notice of intent shall be provided to the Title V source at least 30 days in advance of the date the permit is to be reopened, except that the director may provide a shorter time period in the case of an emergency. 567 IAC 22.114(3)

#### G25. Permit Shield

1. The director may expressly include in a Title V permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:

a. Such applicable requirements are included and are specifically identified in the permit; or

b. The director, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.

2. A Title V permit that does not expressly state that a permit shield exists shall be presumed not to provide such a shield.

3. A permit shield shall not alter or affect the following:

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

b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;

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

d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 22.108 (18)* 

#### G26. Severability

The provisions of this permit are severable and if any provision or application of any provision is found to be invalid by this department or a court of law, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected by such finding. *567 IAC 22.108 (8)* and *Chapter V, Article XVII, 5-77* 

#### **G27.** Property Rights

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

#### G28. Transferability

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

#### G29. Disclaimer

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

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

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

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

Stack Test Review Coordinator Iowa DNR, Air Quality Bureau Wallace State Office Building 502 E. 9<sup>th</sup> Street Des Moines, IA 50319-0034 (515) 725-9526

Within Polk County, stack test notifications, reports, correspondence, and the appropriate fee shall also be directed to the supervisor of the county air pollution program. 567 IAC 25.1(7)"a", 567 IAC 25.1(9) and Chapter V, Article VII, 5-18 and 5-19

#### G31. Prevention of Air Pollution Emergency Episodes

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

#### **G32.** Contacts List

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

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

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

Chief, Air Quality Bureau Iowa Department of Natural Resources Wallace State Office Building 502 E. 9<sup>th</sup> Street Des Moines, IA 50319-0034 (515) 725-8200

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

Polk County Public Works Department Air Quality Division 5885 NE 14th St. Des Moines, IA 50313 (515) 286-3705 JVB

# V. Appendix 1: Web links to applicable regulations (push Cntrl & click the link)

• <u>40 CFR 60-Subpart Kb</u>— <u>Standards of Performance for Volatile Organic Liquid</u> <u>Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction,</u> <u>Reconstruction, or Modification Commenced After July 23, 1984</u>

http://www.ecfr.gov/cgi-bin/text-idx?node=sp40.7.60.k\_0b

• <u>40 CFR 60-Subpart IIII</u>— <u>Standards of Performance for Stationary Compression</u> <u>Ignition Internal Combustion Engines</u>

http://www.ecfr.gov/cgi-bin/text-idx?node=sp40.7.60.iiii

 <u>40 CFR 63-Subpart ZZZ</u>—National Emission Standards For Hazardous Air Pollutants For Stationary Reciprocating Internal Combustion Engines

http://www.ecfr.gov/cgi-bin/text-idx?node=sp40.14.63.zzzz