

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

Name of Permitted Facility: Metro Methane Recovery Facility

Facility Location: 12161 NE 12th Avenue

Mitchellville, Iowa 50169

Air Quality Operating Permit Number: 03-TV-005R2

Expiration Date: November 29, 2021

Permit Renewal Application Deadline: May 29, 2021

EIQ Number: 92-6791

Facility File Number: 77-14-002

Responsible Official

Name: Mr. Joe Durako

**Title: Senior District Manager,
Waste Management of Iowa, Inc.**

**Mailing Address: 601 Madison Road
East St. Louis, IL 62201**

Phone #: (618) 271-6788

Permit Contact Person for the Facility

Name: Mr. Bill Devine

Title: Plant Manager

**Mailing Address: 12161 NE 12th Avenue
Mitchellville, Iowa 50169**

Phone #: (515) 240-6441

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

For the Director of the Department of Natural Resources



Lori Hanson, Supervisor of Air Operating Permits Section

11/30/2016

Date

Table of Contents

I. Facility Description and Equipment List	5
II. Plant - Wide Conditions.....	8
III. Emission Point Specific Conditions	11
IV. General Conditions.....	37
G1. Duty to Comply	
G2. Permit Expiration	
G3. Certification Requirement for Title V Related Documents	
G4. Annual Compliance Certification	
G5. Semi-Annual Monitoring Report	
G6. Annual Fee	
G7. Inspection of Premises, Records, Equipment, Methods and Discharges	
G8. Duty to Provide Information	
G9. General Maintenance and Repair Duties	
G10. Recordkeeping Requirements for Compliance Monitoring	
G11. Evidence used in establishing that a violation has or is occurring.	
G12. Prevention of Accidental Release: Risk Management Plan Notification and Compliance Certification	
G13. Hazardous Release	
G14. Excess Emissions and Excess Emissions Reporting Requirements	
G15. Permit Deviation Reporting Requirements	
G16. Notification Requirements for Sources That Become Subject to NSPS and NESHAP Regulations	
G17. Requirements for Making Changes to Emission Sources That Do Not Require Title V Permit Modification	
G18. Duty to Modify a Title V Permit	
G19. Duty to Obtain Construction Permits	
G20. Asbestos	
G21. Open Burning	
G22. Acid Rain (Title IV) Emissions Allowances	
G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements	
G24. Permit Reopenings	
G25. Permit Shield	
G26. Severability	
G27. Property Rights	
G28. Transferability	
G29. Disclaimer	
G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification	
G31. Prevention of Air Pollution Emergency Episodes	
G32. Contacts List	

V. Appendix A: Web links to applicable regulations.....56

- **40 CFR 60 Subpart WWW: Standards of Performance for Municipal Solid Waste Landfills**
- **40 CFR 60 Subpart JJJJ: Standards of Performance for Stationary Spark Ignition Internal Combustion Engines**
- **40 CFR 63 Subpart AAAA: National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills**
- **40 CFR 63 Subpart ZZZZ: National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**

Abbreviations

acfm.....	actual cubic feet per minute
AERMOD.....	AMS/EPA Regulatory Model
AQD.....	Polk County Public Works- Air Quality Division
CAS.....	Chemical Abstract Service Registry
CE.....	Control Equipment
CEM.....	Continuous Emission Monitor
CFR.....	Code of Federal Regulation
DNR.....	Iowa Department of Natural Resources
°F.....	degrees Fahrenheit
EIQ.....	Emissions Inventory Questionnaire
EP.....	Emission Point
EU.....	Emission Unit
gr./dscf.....	grains per dry standard cubic foot
IAC.....	Iowa Administrative Code
MACT.....	Maximum Achievable Control Technology
µg/m ³	Micrograms per Cubic Meter
MM BTU/ Hr.....	Million British Thermal Units per Hour
MSDS.....	Material Safety Data Sheet(s)
MVAC.....	Motor Vehicle Air Conditioner
NAICS.....	North American Industry Classification System
NESHAP.....	National Emission Standards for Hazardous Air Pollutants
NSPS.....	New Source Performance Standard
ppmv.....	parts per million by volume
psia.....	pounds per square inch absolute
lb./hr.....	pounds per hour
lb./MMBtu.....	pounds per Million British thermal units
SCC.....	Source Classification Codes
scfm.....	standard cubic feet per minute
sdcfm.....	standard dry cubic feet per minute
SIC.....	Standard Industrial Classification
TPY.....	Tons Per Year
USEPA.....	United States Environmental Protection Agency
VCU.....	Vapor Combustion Unit

Pollutants

PM.....	Particulate Matter
PM ₁₀	Particulate Matter ten microns or less in diameter
PM _{2.5}	Particulate Matter 2.5 microns or less in diameter
SO ₂	Sulfur dioxide
NO _x	Nitrogen Oxides
NMOC.....	Non-Methane Organic Compound
VOC(s).....	Volatile Organic Compound(s)
CO.....	Carbon Monoxide
HAP(s).....	Hazardous Air Pollutant(s)

I. Facility Description and Equipment List

Facility Name: Metro Methane Recovery Facility

Permit Number: 03-TV-005R2

Facility Description: Conversion of Landfill Gas to Electric Power, SIC 4911, NAICS 221119

Equipment List

Emission Point Number	Emission Unit Number	Associated Emission Unit Description	Polk County Construction Permit Number
1	1	Landfill Gas Reciprocating Engine, Caterpillar Model 3516, 8.27 MMBtu/ hr.	0614 Modified
2	2	Landfill Gas Reciprocating Engine, Caterpillar Model 3516, 8.27 MMBtu/ hr.	0614 Modified
3	3	Landfill Gas Reciprocating Engine, Caterpillar Model 3516, 8.27 MMBtu/ hr.	0614 Modified
4	4	Landfill Gas Reciprocating Engine, Caterpillar Model 3516, 8.27 MMBtu/ hr.	0614 Modified
5	5	Landfill Gas Reciprocating Engine, Caterpillar Model 3516, 8.27 MMBtu/ hr.	0689 Modified #2
6	6	Landfill Gas Reciprocating Engine, Caterpillar Model 3516, 8.27 MMBtu/ hr.	0689 Modified #2
7	7	Landfill Gas Reciprocating Engine, Caterpillar Model 3516, 8.27 MMBtu/ hr.	0689 Modified #2
8	8	Landfill Gas Reciprocating Engine, Caterpillar Model 3516, 8.27 MMBtu/ hr.	0689 Modified #2
15	12	Crankcase Oil Breather Vent, w/ Solberg Oil Mist Eliminator	2332
16	13	Crankcase Oil Breather Vent, w/ Solberg Oil Mist Eliminator	2332
17	14	Crankcase Oil Breather Vent, w/ Solberg Oil Mist Eliminator	2332
18	15	Crankcase Oil Breather Vent, w/ Solberg Oil Mist Eliminator	2332
19	16	Crankcase Oil Breather Vent, w/ Solberg Oil Mist Eliminator	2333

Emission Point Number	Emission Unit Number	Associated Emission Unit Description	Polk County Construction Permit Number
20	17	Crankcase Oil Breather Vent, w/ Solberg Oil Mist Eliminator	2333
21	18	Crankcase Oil Breather Vent, w/ Solberg Oil Mist Eliminator	2333
22	19	Crankcase Oil Breather Vent, w/ Solberg Oil Mist Eliminator	2333
23	33	Landfill Gas Reciprocating Engine, Caterpillar Model 3520, 14.26 MMBtu/ hr., 2,242 Bhp	2522
24	34	Landfill Gas Reciprocating Engine, Caterpillar Model 3520, 14.26 MMBtu/ hr., 2,242 Bhp	2522
25	35	Landfill Gas Reciprocating Engine, Caterpillar Model 3520, 14.26 MMBtu/ hr., 2,242 Bhp	2522
26	36	Crankcase Oil Breather Vent, w/ Solberg Oil Mist Eliminator	2522
27	37	Crankcase Oil Breather Vent, w/ Solberg Oil Mist Eliminator	2522
28	38	Crankcase Oil Breather Vent, w/ Solberg Oil Mist Eliminator	2522
29	39	Parnell Biogas Dual Open Flare System, 81.6 MMBtu/hr.	2685
30	40	Parnell Biogas Dual Open Flare System, 81.6 MMBtu/hr.	2685

Insignificant Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
10	Hot Water Parts Washer equipped with Oil Skimmer
11	Leachate and Gas Condensate Underground Storage Tank, 10,000 gallon capacity
20	Sandblaster, Internally Vented
21	One (1) Mig Welder
22	Oxygen Acetylene Cutting Torch
23	Grinding Wheel
24	Belt Grinder
25	Drill Press
26	Band Saw
28	Two (2) Crankcase Oil Tanks, 40 weight, 1,000 gallon capacity (each)
29	Crankcase Used Oil Tank, 2,000 gallon capacity
30	Eight (8) Crankcase Oil Day Tanks, 19 gallons (each)
31	Gas Chromatograph Vent
41	Used Oil Tank (Plant 3), 1,500 gallon capacity
42	Engine Coolant Tank (Plant 3), 750 gallon capacity
43	Three (3) Day Oil Tanks (Plant 3), 50 gallon capacity (each)
44	Gas Chromatograph Vent (Plant 3)

II. Plant-Wide Conditions

Facility Name: Metro Methane Recovery Facility
Permit Number: 03-TV-005R2

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: November 30, 2016
Ending on: November 29, 2021

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

Emission Limits

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

Opacity (visible emissions): <20% opacity

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

Sulfur Dioxide (SO₂): 500 parts per million by volume

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

Polk County Board of Health Rules and Regulations: Chapter V, Article IX, Section 5-27

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

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

Particulate Matter:

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

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

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

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

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

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

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

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

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

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

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

40 CFR 60 Subpart WWW - Standards for air emissions from municipal solid waste landfills.

§ 60.752(b)(2)(iii)(C) Route the collected gas to a treatment system that processes the collected gas for subsequent sale or use. All emissions from any atmospheric vent from the gas treatment system shall be subject to the requirements of paragraph (b)(2)(iii) (A) or (B) of this section.

§ 60.753(f) Operate the control or treatment system at all times when the collected gas is routed to the system.

Authority for Requirement: 40 CFR 60 Subpart WWW
 567 IAC 23.1 (2) "rrr"
 Polk County Board of Health Rules and Regulations:
 Chapter V, Article VI, Section 5-16 (n) (70)

40 CFR 63 Subpart AAAA- National Emission Standards for Municipal Solid Waste Landfills.

(The eleven (11) Landfill Gas Reciprocating Engines, (EU 1 / EP 1) through (EU 8 / EP 8), and (EU 33 – 35 / EP 23 – 25) which combust treated gas pursuant to 40 CFR 60.752(b)(2)(iii)(C), are not subject to the requirements of 40 CFR 63 Subpart AAAA. This is because they are combusting only treated landfill gas. However, emissions from any emission points prior to the treatment system, including the compressors and two (2) flares: (EU 39 / EP 29), and (EU 40 / EP 30), are subject to the NESHAP requirements found in 40 CFR 63 Subpart AAAA.)

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

III. Emission Point-Specific Conditions

Facility Name: Metro Methane Recovery Facility
Permit Number: **03-TV-005R2**

Emission Point ID Numbers: 1, 2, 3, and 4

Emission Units vented through these Emission Points: 1, 2, 3, and 4
Emission Unit Description: (4) Reciprocating Engines, Caterpillar Model 3516
Raw Material/Fuel: Landfill Gas
Rated Capacity: 0.8 MW and 8.27 MMBTU/ hr. (each)

Applicable Requirements

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

*The emissions from emission points EP 1 – EP 4 shall not exceed the levels specified below.
(Individual Emission Point Limits)*

Pollutant: Opacity

Emission Limit: <20% opacity

Authority for Requirement: Polk County Construction Permit Number 0614 Modified
Polk County Board of Health Rules and Regulations: Chapter V,
Article IV, Section 5-9

Pollutant: PM / PM₁₀

Emission Limits: 0.02 lbs./ hr.
0.09 TPY
0.10 gr./dscf

Authority for Requirement: Polk County Construction Permit Number 0614 Modified
567 IAC 23.3(2)"a"
Polk County Board of Health Rules and Regulations Chapter V,
Article VI, Section 5-14(b)

Pollutant: SO₂

Emission Limits: 0.26 lbs./ hr.
1.16 TPY
500 parts per million by volume

Authority for Requirement: Polk County Construction Permit Number 0614 Modified
567 IAC 23.3(3)"e"
Polk County Board of Health Rules and Regulations: Chapter V,
Article IX, Section 5-27

Pollutant: NO_x

Emission Limits: 3.90 lbs./ hr.

17.08 TPY

Authority for Requirement: Polk County Construction Permit Number 0614 Modified

Pollutant: VOC

Emission Limits: 0.12 lbs./ hr.

0.51 TPY

Authority for Requirement: Polk County Construction Permit Number 0614 Modified

Pollutant: CO

Emission Limits: 4.30 lbs./ hr.

18.84 TPY

Authority for Requirement: Polk County Construction Permit Number 0614 Modified

Operational Limits & Requirements

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

Work practice standards:

- The owner or operator shall maintain and operate the equipment at all times in a manner consistent with good practice for minimizing emissions.
- The owner or operator is afforded the flexibility to “switchout” emission units 1-4 with identical make and model replacement units for repair and maintenance of the engines. These “switchout” replacements are exempt from the notification, permitting and testing requirements.

Reporting & Record keeping:

- The owner or operator shall maintain records on site for the emission unit “switchout” replacements. Records shall include the date of the replacement and the ending hour meter reading prior to the switch.
- Actual emissions shall be calculated for each emission unit and reported annually as part of the Title V EIS.
- Records shall be kept for five years and be made available to representatives of this department (*Polk County AQD*) upon request.

Authority for Requirement: Polk County Construction Permit Number 0614 Modified

NESHAP:

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

Compliance Date

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

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

1. Change oil and filter every 1,440 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 1,440 hours of operation or annually, whichever comes first, and replace as necessary.
3. Inspect all hoses and belts every 1,440 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.
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.

Recordkeeping Requirements 40 CFR 63.6655

1. Keep records of the occurrence and duration of each malfunction of the engine or the air pollution control and monitoring equipment.
2. Keep records of all required maintenance performed on the air pollution control and monitoring equipment.
3. Records of actions taken during periods of malfunction to minimize emissions, including corrective actions to restore the engine and air pollution control and monitoring equipment to its normal or usual manner of operation.
4. Keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan.

Reporting Requirements

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

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

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

Emission Point Characteristics

Emission points 1 through 4 shall conform to the specifications listed below.

Stack Height, (from the ground): 22.84 feet

Stack Opening, (diameter): 9.75 inches

Exhaust Flow Rate: 2,300 scfm

Exhaust Temperature: 800°F

Discharge Style: Horizontal

Authority for Requirement: Polk County Construction Permit Number 0614 Modified

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.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: 5, 6, 7, and 8

Emission Units vented through these Emission Points: 5, 6, 7, and 8

Emission Unit Description: (4) Reciprocating Engines, Caterpillar Model 3516

Raw Material/Fuel: Landfill Gas

Rated Capacity: 0.8 MW and 8.27 MMBTU/ hr. (each)

Applicable Requirements

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

*The emissions from emission points EP 5 – EP 8 shall not exceed the levels specified below.
(Individual Emission Point Limits)*

Pollutant: Opacity

Emission Limit: <20% opacity

Authority for Requirement: Polk County Construction Permit Number 0689 Modified #2
Polk County Board of Health Rules and Regulations: Chapter V,
Article IV, Section 5-9

Pollutant: PM / PM₁₀

Emission Limits: 0.02 lbs./ hr.

0.09 TPY

0.10 gr./dscf

Authority for Requirement: Polk County Construction Permit Number 0689 Modified #2
567 IAC 23.3(2)"a"
Polk County Board of Health Rules and Regulations Chapter V,
Article VI, Section 5-14(b)

Pollutant: SO₂

Emission Limits: 0.27 lbs./ hr.

1.18 TPY

500 parts per million by volume

Authority for Requirement: Polk County Construction Permit Number 0689 Modified #2
567 IAC 23.3(3)"e"
Polk County Board of Health Rules and Regulations: Chapter V,
Article IX, Section 5-27

Pollutant: NO_x

Emission Limits: 3.90 lbs./ hr.

17.08 TPY

Authority for Requirement: Polk County Construction Permit Number 0689 Modified #2

Pollutant: VOC

Emission Limits: 0.12 lbs./ hr.

0.51 TPY

Authority for Requirement: Polk County Construction Permit Number 0689 Modified #2

Pollutant: CO

Emission Limits: 4.30 lbs./ hr.

18.84 TPY

Authority for Requirement: Polk County Construction Permit Number 0689 Modified #2

Operational Limits & Requirements

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

Work practice standards:

- The owner or operator shall maintain and operate the equipment at all times in a manner consistent with good practice for minimizing emissions.
- The owner or operator is afforded the flexibility to “switchout” emission units 5-8 with identical make and model replacement units for repair and maintenance of the engines. These “switchout” replacements are exempt from the notification, permitting and testing requirements.
- The “switchout” provisions were included to allow for off permit replacement of engines or overhaul of existing engines that may have existing federally enforceable limits. For Replacement engines which trigger new applicable requirements (i.e., NSPS, NESHAP, etc.), the construction permit process of Polk County Board of Health Rules and Regulations Chapter V, Article X shall be utilized to maintain the permitted emission limits of the replaced or overhauled engine and incorporate the new applicable requirements.

Reporting & Record keeping:

- The owner or operator shall maintain records on site for the emission unit “switchout” replacements. Records shall include the date of the replacement and the ending hour meter reading prior to the switch.
- Actual emissions shall be calculated for each emission unit and reported annually as part of the Title V EIS.
- Records shall be kept for five years and be made available to representatives of this department (*Polk County AQD*) upon request.

Authority for Requirement: Polk County Construction Permit Number 0689 Modified #2

NESHAP:

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

Compliance Date

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

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

1. Change oil and filter every 1,440 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 1,440 hours of operation or annually, whichever comes first, and replace as necessary.
3. Inspect all hoses and belts every 1,440 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.
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.

Recordkeeping Requirements 40 CFR 63.6655

5. Keep records of the occurrence and duration of each malfunction of the engine or the air pollution control and monitoring equipment.
6. Keep records of all required maintenance performed on the air pollution control and monitoring equipment.
7. Records of actions taken during periods of malfunction to minimize emissions, including corrective actions to restore the engine and air pollution control and monitoring equipment to its normal or usual manner of operation.
8. Keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan.

Reporting Requirements

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

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

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

Emission Point Characteristics

Emission points 5 through 8 shall conform to the specifications listed below.

Stack Height, (from the ground): 22.84 feet

Stack Opening, (diameter): 9.75 inches

Exhaust Flow Rate: 2,300 scfm

Exhaust Temperature: 800°F

Discharge Style: Horizontal

Authority for Requirement: Polk County Construction Permit Number 0689 Modified #2

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.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: 15, 16, 17, and 18

Associated Equipment

Associated Emission Unit ID Numbers: 12, 13, 14, and 15

Emissions Control Equipment ID Numbers: CE 1, CE 2, CE 3, and CE 4

Emissions Control Equipment Description: Solberg Oil Mist Eliminators (4)

EU = Emission Unit

EU	EU Description	Raw Material	Rated Capacity	Control ID	EP
12	Crankcase Oil Breather Vent for EU 1	Engine Oil, SAE 30/ 40	16 gallons/month	CE 1	15
13	Crankcase Oil Breather Vent for EU 2	Engine Oil, SAE 30/ 40	16 gallons/month	CE 2	16
14	Crankcase Oil Breather Vent for EU 3	Engine Oil, SAE 30/ 40	16 gallons/month	CE 3	17
15	Crankcase Oil Breather Vent for EU 4	Engine Oil, SAE 30/ 40	16 gallons/month	CE 4	18

Applicable Requirements

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

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

Emissions shall not exceed the following from EU 12 – EU 15 (CE-1 – CE-4) Individually:

<u>Pollutant</u>	<u>lbs/hr.</u>	<u>tons/year</u>	<u>Allowable Concentration</u>
PM/PM ₁₀	0.009	0.036	0.10 gr/dscf
Opacity	---	---	< 20 %

Emissions shall not exceed the following from EU 12 – EU 15 (CE-1 – CE-4) Combined:

<u>Pollutant</u>	<u>lbs/hr.</u>	<u>tons/year</u>	<u>Allowable Concentration</u>
PM/PM ₁₀	0.033	0.142	0.10 gr/dscf
Opacity	---	---	< 20 %

Authority for Requirement: Polk County Construction Permit Number 2332
 567 IAC 23.3(2)"a"(2)
 Polk County Board of Health Rules and Regulations Chapter V,
 Article VI, Section 5-14(b)

Operational Limits & Requirements

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

Process throughput:

- The owner or operator shall not exceed 16 gallons per engine, 64 gallons combined for EUs 12, 13, 14, and 15 of engine oil usage.

Work practice standards:

- The owner or operator shall maintain and operate the equipment at all times in a manner consistent with good practice for minimizing emissions.

Reporting & Record keeping:

- The owner or operator shall maintain monthly records on site for engine oil consumption. Records shall include the twelve month rolling total, rolled monthly.
- Records shall be kept for five years and be made available to representatives of this department (AQD) upon request.

Authority for Requirement: Polk County Construction Permit Number 2332

Emission Point Characteristics

Emission Points 15 through 18 shall each conform to the specifications listed below.

Stack Height, (from the ground): 14 feet

Stack Opening, (diameter): 2 inches

Exhaust Flow Rate: 80 acfm

Exhaust Temperature: 180°F

Discharge Style: Horizontal

Authority for Requirement: Polk County Construction Permit Number 2332

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.

- The facility shall check the opacity weekly during a period when the emission units on EP 15 - 18 are operating at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation, (during landfill gas combustion), of the units. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity equal to or greater than 20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: 19, 20, 21, and 22

Associated Equipment

Associated Emission Unit ID Numbers: 16, 17, 18, and 19

Emissions Control Equipment ID Numbers: CE 5, CE 6, CE 7, and CE 8

Emissions Control Equipment Description: Solberg Oil Mist Eliminators (4)

EU = Emission Unit

EU	EU Description	Raw Material	Rated Capacity	Control ID	EP
16	Crankcase Oil Breather Vent for EU 5	Engine Oil, SAE 30/ 40	16 gallons/month	CE 5	19
17	Crankcase Oil Breather Vent for EU 6	Engine Oil, SAE 30/ 40	16 gallons/month	CE 6	20
18	Crankcase Oil Breather Vent for EU 7	Engine Oil, SAE 30/ 40	16 gallons/month	CE 7	21
19	Crankcase Oil Breather Vent for EU 8	Engine Oil, SAE 30/ 40	16 gallons/month	CE 8	22

Applicable Requirements

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

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

Emissions shall not exceed the following from EU 16 – EU 19 (CE-5 – CE-8) Individually:

<u>Pollutant</u>	<u>lbs/hr.</u>	<u>tons/year</u>	<u>Allowable Concentration</u>
PM/PM ₁₀	0.009	0.036	0.10 gr/dscf
Opacity	---	---	< 20 %

Emissions shall not exceed the following from EU 16 – EU 19 (CE-5 – CE-8) Combined:

<u>Pollutant</u>	<u>lbs/hr.</u>	<u>tons/year</u>	<u>Allowable Concentration</u>
PM/PM ₁₀	0.033	0.142	0.10 gr/dscf
Opacity	---	---	< 20 %

Authority for Requirement: Polk County Construction Permit Number 2333
567 IAC 23.3(2)"a"(2)
Polk County Board of Health Rules and Regulations Chapter V,
Article VI, Section 5-14(b)

Operational Limits & Requirements

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

Process throughput:

- The owner or operator shall not exceed 16 gallons per engine, 64 gallons combined for EUs 16, 17, 18, and 19 of engine oil usage.

Work practice standards:

- The owner or operator shall maintain and operate the equipment at all times in a manner consistent with good practice for minimizing emissions.

Reporting & Record keeping:

- The owner or operator shall maintain monthly records on site for engine oil consumption. Records shall include the twelve month rolling total, rolled monthly.
- Records shall be kept for five years and be made available to representatives of this department (AQD) upon request.

Authority for Requirement: Polk County Construction Permit Number 2333

Emission Point Characteristics

Emission Points 19 through 22 shall each conform to the specifications listed below.

Stack Height, (from the ground): 14 feet

Stack Opening, (diameter): 2 inches

Exhaust Flow Rate: 80 acfm

Exhaust Temperature: 180°F

Discharge Style: Horizontal

Authority for Requirement: Polk County Construction Permit Number 2333

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.

- The facility shall check the opacity weekly during a period when the emission units on EP 19 - 22 are operating at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation, (during landfill gas combustion), of the units. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity equal to or greater than 20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: 23, 24, and 25

Emission Units vented through these Emission Points: 33, 34, and 35
Emission Unit Description: (3) Reciprocating Engines, Caterpillar Model 3520
Raw Material/Fuel: Landfill Gas
Rated Capacity: 2,242 Bhp and 14.26 MMBtu/ hr. (each)

Applicable Requirements

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

*The emissions from EP 23, EP 24, and EP 25 shall not exceed the levels specified below.
(Individual Emission Point Limits)*

Pollutant: Opacity

Emission Limit: <20% opacity

Authority for Requirement: Polk County Construction Permit Number 2522

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

Pollutant: PM / PM₁₀

Emission Limits: 0.75 lbs./ hr.,
3.30 TPY, and
0.10 gr./dscf

Authority for Requirement: Polk County Construction Permit Number 2522

567 IAC 23.3(2)"a"
Polk County Board of Health Rules and Regulations Chapter V,
Article VI, Section 5-14(b)

Pollutant: SO₂

Emission Limits: 1.30 lbs./ hr.,
5.71 TPY, and
500 parts per million by volume

Authority for Requirement: Polk County Construction Permit Number 2522

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

Pollutant: NO_x

Emission Limits: 4.93 lbs./ hr.,
21.60 TPY, and
1.0 grams/ brakehorsepower-hour

Authority for Requirement: Polk County Construction Permit Number 2522
40 CFR 60 Subpart JJJJ
567 IAC 23.1(2)"zzz"
Polk County Board of Health Rules and Regulations: Chapter V,
Article VI, Section 5-16 (n)(78)

Pollutant: VOC

Emission Limits: 1.97 lbs./ hr.,
8.60 TPY, and
0.40 grams/ brakehorsepower-hour

Authority for Requirement: Polk County Construction Permit Number 2522
40 CFR 60 Subpart JJJJ
567 IAC 23.1(2)"zzz"
Polk County Board of Health Rules and Regulations: Chapter V,
Article VI, Section 5-16 (n)(78)

Pollutant: CO

Emission Limits: 17.26 lbs./ hr.,
75.60 TPY, and
3.50 grams/ brakehorsepower-hour

Authority for Requirement: Polk County Construction Permit Number 2522
40 CFR 60 Subpart JJJJ
567 IAC 23.1(2)"zzz"
Polk County Board of Health Rules and Regulations: Chapter V,
Article VI, Section 5-16 (n)(78)

The combined emissions from EP 23, EP 24, and EP 25 shall not exceed the levels specified below.

Pollutant: PM / PM₁₀

Emission Limits: 2.26 lbs./ hr. and
9.90 TPY

Authority for Requirement: Polk County Construction Permit Number 2522

Pollutant: SO₂

Emission Limits: 3.91 lbs./ hr. and
17.12 TPY

Authority for Requirement: Polk County Construction Permit Number 2522

Pollutant: NO_x

Emission Limits: 14.80 lbs./ hr. and
64.81 TPY

Authority for Requirement: Polk County Construction Permit Number 2522

Pollutant: VOC

Emission Limits: 5.92 lbs./ hr. and
25.96 TPY

Authority for Requirement: Polk County Construction Permit Number 2522

Pollutant: CO

Emission Limits: 51.79 lbs./ hr. and
226.84 TPY

Authority for Requirement: Polk County Construction Permit Number 2522

Operational Limits & Requirements

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

Work practice standards:

*The owner or operator shall comply with all applicable conditions of 40 CFR 60 subpart JJJJ- Standards of Performance for Stationary Spark Ignition Internal Combustion Engines.

*Per §60.4233(e) owners and operators must comply with the emission standards in Table 1 to this subpart.

*Per §60.4234 owners and operators must operate and maintain stationary SI ICE that achieve the emission standards as required in §60.4233 over the entire life of the engine.

*Per §60.4236 owners and operators may not install stationary SI ICE that do not meet the applicable requirements in §60.4233.

* Owners and operators shall comply with the applicable requirements of §60.4243.

* The owner or operator shall keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, an initial performance test shall be conducted within 1 year of the engine startup and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance per §60.4243(a)(2)(iii).

* Owners and operators shall comply with the testing requirements and procedures of §60.4244.

* Owners and operators shall comply with the applicable General Provisions in §§60.1 through 60.19 per §60.4246.

* The owner or operator is afforded the flexibility to “switchout” emission units 33-35 with identical make and model replacement units for repair and maintenance of the engines. These “switchout” replacements are exempt from the notification, permitting and testing requirements of Section 3. Transferability of this permit.

* This authorization is limited to activities that can be accommodated by the original installation of each engine and that are performed in conjunction with an ongoing program of maintenance, repair, and replacement, so as to not constitute a modification of the engines with respect to NSR or PSD. A PSD evaluation will be performed at least one week prior to the “switchout” to demonstrate that no net emissions increase triggering PSD has occurred. This evaluation shall be submitted to Polk County upon request, but will otherwise be kept in the site files and available for inspection with the other required “switchout” documentation listed below. This authorization does not extend to installation of a replacement engine that is a different make and model than the original engine or to activities that are intended to or would have the result of increasing the design capacity of the engines.

* The owner or operator shall maintain records on site for the emission unit “switchout” replacements. Records shall include the date of the replacement and the ending hour meter reading prior to the switch.

* The “switchout” provisions were included to allow for off permit replacement of engines or overhaul of existing engines that may have existing federally enforceable limits. For Replacement engines which trigger new applicable requirements (i.e., NSPS, NESHAP, etc.), the construction permit process of Polk County Board of Health Rules and Regulations Chapter V, Article X shall be utilized to maintain the permitted emission limits of the replaced or overhauled engine and incorporate the new applicable requirements.

Reporting & Record keeping:

* Owners and operators shall comply with the notification, reporting and recordkeeping requirements of §60.4245.

* Actual emissions shall be calculated for each emission unit and reported annually as part of the Title V EIS.

* Records shall be kept for five years and be made available to representatives of this department upon request.

Authority for Requirement: Polk County Construction Permit Number 2522

40 CFR 60 Subpart JJJJ

567 IAC 23.1(2)"zzz"

Polk County Board of Health Rules and Regulations: Chapter V,
Article VI, Section 5-16 (n)(78)

Emission Point Characteristics

Emission points 23, 24, and 25 shall conform to the specifications listed below.

Stack Height, (from the ground): 31 feet

Stack Opening, (diameter): 16 inches

Exhaust Flow Rate: 12,311 acfm

Exhaust Temperature: 914°F

Discharge Style: Vertical, unobstructed

Authority for Requirement: Polk County Construction Permit Number 2522

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.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: 26, 27, and 28

Associated Equipment

Emissions Control Equipment ID Number: CE 9, CE 10, and CE 11

Emissions Control Equipment Description: Solberg Oil Mist Eliminators (3)

Emission Units vented through these Emission Points: 36, 37, and 38

Emission Unit Description: (3) Crankcase Oil Breather Vents for EU 33, 34, and 35

Raw Material/Fuel: Engine Oil

Rated Capacity: 1,825 gallons oil/ rolling 12 month period (each)

Applicable Requirements

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

*The emissions from EP 26, EP 27, and EP 28 shall not exceed the levels specified below.
(Individual Emission Point Limits)*

Pollutant: Opacity

Emission Limit: <20% opacity

Authority for Requirement: Polk County Construction Permit Number 2522

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

Pollutant: PM / PM₁₀

Emission Limits: 0.08 lbs./ hr.,
0.34 TPY, and
0.10 gr./dscf

Authority for Requirement: Polk County Construction Permit Number 2522

567 IAC 23.3(2)"a"
Polk County Board of Health Rules and Regulations Chapter V,
Article VI, Section 5-14(b)

The combined emissions from EP 26, EP 27, and EP 28 shall not exceed the levels specified below.

Pollutant: PM / PM₁₀

Emission Limits: 0.23 lbs./ hr. and
1.01 TPY

Authority for Requirement: Polk County Construction Permit Number 2522

Operational Limits & Requirements

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

Process throughput:

* The owner or operator shall not exceed 1,825 gallons per engine, 5,475 gallons combined for EUs 36, 37, and 38 of engine oil consumption per 12 month rolling period. Consumption shall not include oil replaced during oil changes or similar maintenance operations.

Reporting & Record keeping:

* Actual emissions shall be calculated for each emission unit and reported annually as part of the Title V EIS.

* The owner or operator shall maintain monthly records on site for engine oil consumption. Records shall include the twelve month rolling total, rolled monthly.

* Records shall be kept for five years and be made available to representatives of this department upon request.

Authority for Requirement: Polk County Construction Permit Number 2522

Emission Point Characteristics

Emission points 26, 27, and 28 shall conform to the specifications listed below.

Stack Opening, (diameter): 2 inches

Discharge Style: Horizontal

Authority for Requirement: Polk County Construction Permit Number 2522

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.

The facility shall check the opacity weekly during a period when the emission units on EP 26, 27 and 28 are operating at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation, (during landfill gas combustion), of the units. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity equal to or greater than 20% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: 29 & 30

Emission Units vented through these Emission Points: 39 & 40
Emission Unit Description: Parnell Biogas Dual Open Flare System
Raw Material/Fuel: Landfill Gas/ propane pilot light
Rated Capacity: 81.6 MMBtu/ hr.(per flare), 163.8 MMBtu/ hr.(total system)

Applicable Requirements

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

The emissions from these Emission Points 29 & 30 (combined) shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit: <20% opacity

Authority for Requirement: Polk County Construction Permit Number 2685
Polk County Board of Health Rules and Regulations: Chapter V,
Article IV, Section 5-9

Pollutant: PM

Emission Limits: 3.04 lbs./ hr.
9.40 TPY
0.10 gr./dscf

Authority for Requirement: Polk County Construction Permit Number 2685
567 IAC 23.3(2)"a"
Polk County Board of Health Rules and Regulations Chapter V,
Article VI, Section 5-14(b)

Pollutant: PM_{2.5} / PM₁₀

Emission Limits: 3.04 lbs./ hr.
9.40 TPY

Authority for Requirement: Polk County Construction Permit Number 2685

Pollutant: SO₂

Emission Limits: 8.97 lbs./ hr.
27.8 TPY
500 parts per million by volume

Authority for Requirement: Polk County Construction Permit Number 2685
567 IAC 23.3(3)"e"
Polk County Board of Health Rules and Regulations: Chapter V,
Article IX, Section 5-27

Pollutant: NO_x

Emission Limits: 6.49 lbs./ hr.
20.10 TPY

Authority for Requirement: Polk County Construction Permit Number 2685

Pollutant: NMOC

Emission Limits: 0.96 lbs./ hr.
2.96 TPY
<20 ppm by volume, dry basis as hexane at 3% oxygen

Authority for Requirement: Polk County Construction Permit Number 2685

40 CFR 60 Subpart WWW

567 IAC 23.1(2)"rrr"

Polk County Board of Health Rules and Regulations: Chapter V,
Article VI, Section 5-16(n)(70)

Pollutant: HAP

Emission Limits: 0.19 lbs./ hr.
0.82 TPY

Authority for Requirement: Polk County Construction Permit Number 2685

Pollutant: CO

Emission Limits: 24.35 lbs./ hr.
75.38 TPY

Authority for Requirement: Polk County Construction Permit Number 2685

Operational Limits & Requirements

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

Process throughput:

- The owner or operator shall not combust more than 1,005,030 MMBtu per 12 month period (Lower Heating Value or LHV basis), rolled monthly in the Parnell Biogas Flare (EUs 39 & 40).
- The owner or operator shall calculate and record monthly the MMBtu (LHV basis) combusted in EUs 39 & 40. If the rolling twelve month total of MMBtu (LHV basis) combusted is equal to or greater than 85% of the allowable operating limit (1,005,030 MMBtu) the permittee shall calculate a 365 day rolling total on a weekly basis until such time that the 365 daily rolling total of MMBtu (LHV basis) combusted fall below the 85% threshold level (854,275.5 MMBtu – LHV basis) for a period consisting of the remainder of the month they are in, plus one additional month, then monthly calculations may resume.
- The owner or operator shall install a flow monitoring device. The flow (scf) of landfill gas to EUs 39 & 40 shall be recorded on a monthly basis.

Work practice standards:

- The owner or operator shall on a monthly basis sample and analyze the landfill gas for methane concentration. A hand-held field instrument is sufficient for this purpose.

- The owner or operator shall comply with all applicable conditions of 40 CFR 60 subpart WWW-Standards of Performance for Municipal Solid Waste Landfills.
- The flare shall be designed and operated in accordance with §60.18 except as noted in §60.754(e) per §60.752(b)(iii)(A).
- The owner or operator shall calibrate, maintain and operate according to the manufacturer's specifications, the following equipment per §60.756 (c):
 - (1) A heat sensing device, such as an ultraviolet beam sensor or thermocouple, at the pilot light or the flame itself to indicate the continuous presence of a flame.
 - (3) A device to monitor and record the combustion temperature.
- The owner or operator shall comply with the test methods and procedures of §60.754.
- There is no by-pass line on the flare; therefore, §60.756 (c)(2) is not applicable at this time. If a by-pass line is installed it shall comply with §60.756 (c)(2) and the owner or operator shall submit an application to modify this permit.
- The owner or operator shall comply with all applicable requirements of 40 CFR 63 Subpart AAAA-National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills.
- The owner or operator shall comply with the startup, shutdown maintenance provisions of §63.1955 (c).
- The owner or operator shall comply with the applicable general control device and work practice requirements of §60.18.
- The owner or operator of an affected source must develop and implement a written startup, shutdown and malfunction in accordance with §63.6 (e)(3).

Reporting & Record keeping:

- The owner or operator shall comply with the recordkeeping requirements of §60.758.
- The owner or operator shall keep all required records on site for a minimum period of 5 years. Said records shall be made available to representatives of this agency (*Polk County AQD*) upon request.

Authority for Requirement: Polk County Construction Permit Number 2685

40 CFR 60 Subpart A
 567 IAC 23.1(2)
 Polk County Board of Health Rules and Regulations: Chapter V,
 Article VI, Section 5-16(n)

40 CFR 60 Subpart WWW
 567 IAC 23.1(2)"rrr"
 Polk County Board of Health Rules and Regulations: Chapter V,
 Article VI, Section 5-16(n)(70)

40 CFR 63 Subpart AAAA
 567 IAC 23.1(4)"ca"
 Polk County Board of Health Rules and Regulations: Chapter V,
 Article VIII, Section 5-20 (aaaa)

Emission Point Characteristics

Emission Points 29 and 30 shall each conform to the specifications listed below.

Stack Height, (from the ground): 40 feet

Stack Opening, (diameter): 12 inches

Exhaust Flow Rate: 360,000 scfm

Exhaust Temperature: 1,000°F

Discharge Style: Vertical, unobstructed

Authority for Requirement: Polk County Construction Permit Number 2685

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.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

IV. General Conditions

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

G1. Duty to Comply

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

G2. Permit Expiration

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

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

G3. Certification Requirement for Title V Related Documents

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

G4. Annual Compliance Certification

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

G5. Semi-Annual Monitoring Report

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

G6. Annual Fee

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

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

3. The following forms shall be submitted annually by March 31 documenting actual emissions for the previous calendar year.

- a. Form 1.0 "Facility Identification";
- b. Form 4.0 "Emissions unit-actual operations and emissions" for each emission unit;
- c. Form 5.0 "Title V annual emissions summary/fee"; and
- d. Part 3 "Application certification."

4. The fee shall be submitted annually by July 1. The fee shall be submitted with the following forms:

- a. Form 1.0 "Facility Identification";
- b. Form 5.0 "Title V annual emissions summary/fee";
- c. Part 3 "Application certification."

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

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

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

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

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

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

1. Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
4. Sample or monitor, at reasonable times, substances or parameters for the purpose of ensuring compliance with the permit or other applicable requirements. *567 IAC 22.108 (15)"b"* and *Chapter V, Article II, 5-3 and 5-4*

G8. Duty to Provide Information

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

G9. General Maintenance and Repair Duties

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

1. Maintain and operate the equipment or control equipment at all times in a manner consistent with good practice for minimizing emissions.
2. Remedy any cause of excess emissions in an expeditious manner.
3. Minimize the amount and duration of any excess emission to the maximum extent possible during periods of such emissions. These measures may include but not be limited to the use of clean fuels, production cutbacks, or the use of alternate process units or, in the case of utilities, purchase of electrical power until repairs are completed.
4. Schedule, at a minimum, routine maintenance of equipment or control equipment during periods of process shutdowns to the maximum extent possible. *567 IAC 24.2(1) and Chapter V, Article VI, Section 5-17.1*

G10. Recordkeeping Requirements for Compliance Monitoring

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

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

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

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

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

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

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

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

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

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

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

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

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

G13. Hazardous Release

The permittee must report any situation involving the actual, imminent, or probable release of a hazardous substance into the atmosphere which, because of the quantity, strength and toxicity of the substance, creates an immediate or potential danger to the public health, safety or to the environment. A verbal report shall be made to the department at (515) 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(3), 567 IAC 23.1(4)* This notification must be made to Polk County Air Quality Division, in lieu of the Department, upon adoption of the NSPS or NESHAP into Chapter V.

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

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:
 - a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.
 - b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);

- c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
- d. The changes are not subject to any requirement under Title IV of the Act (revisions affecting Title IV permitting are addressed in rules 567—22.140(455B) through 567 - 22.144(455B));
- e. The changes comply with all applicable requirements.
- f. For each such change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:

- i. A brief description of the change within the permitted facility,
- ii. The date on which the change will occur,
- iii. Any change in emission as a result of that change,
- iv. The pollutants emitted subject to the emissions trade
- v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
- vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
- vii. Any permit term or condition no longer applicable as a result of the change.

567 IAC 22.110(1)

- 2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 22.110(2)*
- 3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*
- 4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*
- 5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 22.108(11)*

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

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

2. Minor Title V Permit Modification.

- a. Minor Title V permit modification procedures may be used only for those permit modifications that satisfy all of the following:
 - i. Do not violate any applicable requirement;
 - ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit;
 - iii. Do not require or change a case by case determination of an emission limitation or other standard, or an increment analysis;
 - iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act;
 - v. Are not modifications under any provision of Title I of the Act; and
 - vi. Are not required to be processed as significant modification under rule 567 - 22.113(455B).

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

- i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;
- ii. The permittee's suggested draft permit;
- iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used; and
- iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).

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

3. Significant Title V Permit Modification.

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

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

G19. Duty to Obtain Construction Permits

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

G20. Asbestos

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

G21. Open Burning

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

G22. Acid Rain (Title IV) Emissions Allowances

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

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

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

- a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.
- b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.

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

G24. Permit Reopenings

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*

2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.

a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;

b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.

c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a", 567 IAC 22.108(17)"b"*

3. A permit shall be reopened and revised under any of the following circumstances:

a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;

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

c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.

d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

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

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

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

G25. Permit Shield

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

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

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

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

- a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;
- b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
- c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;
- d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 22.108 (18)*

G26. Severability

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

G27. Property Rights

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

G28. Transferability

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

G29. Disclaimer

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

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

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

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

Stack Test Review Coordinator

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

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

567 IAC 25.1(7)"a", 567 IAC 25.1(9) and Chapter V, Article VII, 5-18 and 5-19

G31. Prevention of Air Pollution Emergency Episodes

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

G32. Contacts List

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

Chief of Air Permits
U.S. EPA Region 7
Air Permits and Compliance Branch
11201 Renner Boulevard
Lenexa, KS 66219
(913) 551-7020

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

Chief, Air Quality Bureau
Iowa Department of Natural Resources
7900 Hickman Road, Suite #1
Windsor Heights, IA 50324
(515) 725-9500

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

Polk County Public Works Department
Air Quality Division
5885 NE 14th St.
Des Moines, IA 50313

(515) 286-3351

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

- **40 CFR 60 Subpart WWW: Standards of Performance for Municipal Solid Waste Landfills**
<http://www.ecfr.gov/cgi-bin/text-idx?SID=74cfc79770b25f68cff2dd3696e86f94&mc=true&node=sp40.8.60.www&rgn=div6>
- **40 CFR 60 Subpart JJJJ: Standards of Performance for Stationary Spark Ignition Internal Combustion Engines**
<http://www.ecfr.gov/cgi-bin/text-idx?SID=8c8e49f792b31719476bf0408ffc0f43&mc=true&node=sp40.7.60.jjjj&rgn=div6>
- **40 CFR 63 Subpart AAAA: National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills**
<http://www.ecfr.gov/cgi-bin/text-idx?SID=74cfc79770b25f68cff2dd3696e86f94&mc=true&node=sp40.14.63.aa&rgn=div6>
- **40 CFR 63 Subpart ZZZZ: National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**
<http://www.ecfr.gov/cgi-bin/text-idx?SID=9556af1df07dea5452b019d2d0507a85&mc=true&node=sp40.15.63.zzzz&rgn=div6>