

**Sarasota County Board of County Commissioners
Sarasota County Solid Waste Operations
Central County Solid Waste Disposal Complex**

4000 Knights Trail Road
Nokomis, Florida 34275

Facility ID No.: 1150089
Sarasota County

**Title V Air Operation Permit Revision
Permit Project No.: 1150089-009-AV**

Permitting Authority

State of Florida

Department of Environmental Protection

Division of Air Resources Management

Office of Compliance and Enforcement

Mail Station #5505

2600 Blair Stone Road

Tallahassee, Florida 32399-2400

Telephone: 850/488-0114

Fax: 850/921-9533

Compliance Authority:

Florida Department of Environmental Protection

Southwest District

Air Compliance Section

13051 N. Telecom Parkway

Temple Terrace, Florida 336637-0926

Telephone: 813/632-7600

Fax: 813/632-7668

Title V Air Operation Permit **Revision**
 Sarasota County Central County Solid Waste Disposal Complex
Permit No.: 1150089-009-AV

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Table 3 - Summary of Compliance Reporting Requirements (40 CFR 60 Subpart WWW)

Table H-1, Permit History



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

BOB MARTINEZ CENTER
2600 BLAIRSTONE ROAD
TALLAHASSEE, FLORIDA 32399-2400

RICK SCOTT
GOVERNOR

CARLOS LOPEZ-CANTERA
LT. GOVERNOR

HERSCHEL T. VINYARD JR.
SECRETARY

Permittee:

Sarasota Co. Board of Co. Commissioners
Sarasota Co. Solid Waste Disposal Complex
4000 Knights Trail Road
Nokomis, Florida 34275-3610

Permit No.: 1150089-009-AV

Facility ID No.: 1150089

SIC Nos.: 49, 4953

Project: Title V Air Operation Permit

Revision for the Sarasota Co. CCSWDC

The purpose of this permit is to **revise (1st time)** the Title V Air Operation Permit **1150089-007-AV** for the above referenced facility. This revision authorizes the operation of the new **126 HP John Deere emergency engine that will provide power service to the administration and scale house buildings.** The Sarasota County Central County Solid Waste Disposal Complex (CCSWDC) facility is located at 4000 Knights Trail Road, Nokomis, Sarasota County; UTM Coordinates: Zone 17, 362.97 km East and 3009.13 km North; and Latitude: 27° 12' 00" North and Longitude: 82° 23' 00" West.

This Title V Air Operation Permit Revision is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210 and 62-213. The above named permittee is hereby authorized to operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit.

Referenced attachments made a part of this permit:

Appendix I-1, List of Insignificant Emissions Units and/or Activities

Appendix U-1, List of Unregulated Emissions Units and/or Activities

Appendix TV-6, Title V Conditions (*version dated 11/10/08*)

Appendix NSPS 40 CFR 60 Subpart WWW (Standards of Performance for Municipal Solid Waste Landfills)

Appendix NSPS 40 CFR 60 Subpart IIII, Condition Set IIIIG (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (Owner/operator 2007 and later model, non-fire pump emergency, less than 10L per cylinder))

Appendix NSPS 40 CFR 60 Subpart A (General Provisions for 40 CFR 60)

Appendix NESHAP 40 CFR 63 Subpart ZZZZ (National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines)

Summary of NESHAP 40 CFR 63 Subpart ZZZZ Applicable Requirements for Existing Stationary Reciprocating Internal Combustion Engines (RICE) at Area Sources of HAP

Appendix NSPS 40 CFR 63 Subpart A (General Provisions for 40 CFR 63)

Effective Date: ~~03/08/2011~~ **XX/XX/2014**

Renewal Application Due Date: 07/27/2015

Expiration Date: 03/08/2016

(Draft/Proposed)

Jeffery F. Koerner, Program Administrator
Office of Permitting and Compliance
Division of Air Resource Management

JFK/dlr/th

Section I. Facility Information.

Subsection A. Facility Description.

This central county solid waste disposal facility includes a municipal solid waste (MSW) landfill and other associated solid waste collection and disposal activities. The Class I disposal landfill currently consists of a Phase I area which began accepting waste on June 5, 1998, and a Phase II expansion area. This landfill has a permitted design capacity greater than 2.5 million megagrams by mass and 2.5 million cubic meters by volume. (*Note – Waste in place at the end of 2010 is estimated at 3,205,174 Mg (2,949,679 tons). It is estimated that, based on anticipated waste acceptance rates, by the end of 2015 waste in place will be 4,273,030 Mg (4,700,333 tons).*)

The landfill has a voluntarily installed (*i.e., not required by NSPS Subpart WWW – see Subsection C. below*) LFG collection system in Phase I, with an open candlestick flare used to combust the collected LFG. The LFG collection system and flare became operational in May of 2010.

Also included in this permit are miscellaneous unregulated/insignificant emissions units and/or activities associated with the solid waste collection and disposal operations located at this site. (*See below and Appendices I-1 and U-1*)

Subsection B. Summary of Emissions Unit ID No(s). and Brief Description(s).

Regulated Emissions Units and/or Activities

| E.U. ID No. | Brief Description |
|--------------------|---|
| 001 | Municipal Solid Waste (MSW) Landfill with LFG Collection System and LFG Candlestick Flare |
| 006 | Emergency Stationary Compression Ignition (CI) Reciprocating Internal Combustion Engine(s) (RICE) Manufactured after April 1, 2006 (<i>subject to NSPS 40 CFR 60 Subpart IIII</i>) |
| 007 | Existing Emergency Stationary Compression Ignition (CI) Reciprocating Internal Combustion Engines (RICE) (<i>subject to NESHAP 40 CFR 63 Subpart ZZZZ</i>) |
| 008 | Existing Stationary Compression Ignition (CI) Reciprocating Internal Combustion Engines (RICE) rated at ≤ 300 HP (<i>subject to NESHAP 40 CFR 63 Subpart ZZZZ</i>) |
| 009 | Existing Stationary 4-Stroke Lean Burn (4SLB) Spark Ignition (SI) Reciprocating Internal Combustion Engines (RICE) (<i>subject to NESHAP 40 CFR 63 Subpart ZZZZ</i>) |
| <u>014</u> | <u>New Emergency Stationary Compression Ignition (CI) Reciprocating Internal Combustion Engines (RICE)</u> (<i>subject to NESHAP 40 CFR 63 Subpart ZZZZ</i>) |

Unregulated Emissions Units and/or Activities * (see also Appendix U-1, Unregulated Emission Units)

| E.U. ID No. | Brief Description |
|--------------------|---|
| 002 | Fugitive PM/PM10 Emissions (Roads and Earthmoving Operations) |
| 003 | Yard Waste Composting Operations |
| 005 | Non-Stationary (Non-Road) Diesel Engines |

(* Unregulated EU Note – EU No. 004, previously an unregulated emission unit for eight (8) landfill gas (LFG) safety flares located along the north and south perimeters of Phase I Cells 1 through 4 and used for the combustion of accumulated LFG for worker safety purposes, has been removed from the facility operation permit as these safety flares no longer exist. The newly installed Phase I LFG collection system eliminated the need for these safety flares.)

Subsection C. Applicable Regulations.

Title V

This landfill has a permitted design capacity greater than 2.5 million megagrams by mass and 2.5 million cubic meters by volume, thereby making it subject to the Title V permitting requirements of Chapter 62-213, F.A.C. in accordance with the provisions of Rule 62-204.800(8)(b)(74), F.A.C.

Based on the Title V air operation permit renewal application received October 19, 2009, and the Title V revision application received **May 16, 2014**, this facility is not a major source of hazardous air pollutants (HAP).

With the addition of the landfill gas collection system and LFG candlestick flare, this facility is major for the pollutant carbon monoxide (CO).

40 CFR 60 New Source Performance Standards (NSPS)

This landfill has a permitted design capacity greater than 2.5 million megagrams by mass and 2.5 million cubic meters by volume, thereby making it subject to the requirements of NSPS 40 CFR 60 Subpart WWW (Standards of Performance for Municipal Solid Waste Landfills), as adopted by reference in Rule 62-204.800(8)(b), F.A.C. At the time of issuance of this Title V permit, NMOC (non-methane organic compound) emissions were less than 50 Mg/year (estimated at 39.6 Mg/year for 2010). Therefore this landfill is not currently subject to the collection and control system requirements of Subpart WWW (40 CRFR 60.752(b)). (*Note: Based on the most recent NMOC emission rate report, which used the results of the June 2010 Tier 2 sampling results, it is estimated that, at the anticipated waste acceptance rates, the NMOC emission rate will exceed 50 Mg/year during 2015.*)

The stationary compression ignition (CI) internal combustion engines (RICE) at this facility that are manufactured after April 1, 2006 (see Subpart IIII 40 CFR 60.4200) are subject to NSPS 40 CFR 60 Subpart IIII (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines) (see EU 006 in Section III., Subsection B.).

40 CFR 63 National Emission Standards for Hazardous Air Pollutants (NESHAP)

The existing (as defined in Subpart ZZZZ 40 CFR 63.6590(a)) stationary internal combustion engines (RICE) at this facility are subject to NESHAP 40 CFR 63 Subpart ZZZZ (National Emissions Standards

for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines) (*see EU Nos. 007, 008 and 009 in Section III., Subsection C.*).

(Note - NESHAP 40 CFR 63 Subpart AAAA (National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills) is not applicable to this facility at this time since estimated uncontrolled non-methane organic compound (NMOC) are less than 50 megagrams per year (40 CFR 63.1935(a)(3).)

Prevention of Significant Deterioration (PSD)

The current Sarasota County Central County Solid Waste Disposal Complex facility is a minor PSD source in accordance with Rule 62-212.400, F.A.C. Based on AP-42 emission factors, the maximum candlestick utility flare design capacity landfill gas (LFG) flow rate for 8,760 hours per year, and the expected LFG generation rate in the year 2024, potential emissions of carbon monoxide (the pollutant with the highest emission rate) from the utility candlestick flare are estimated to be 247.9 tons per year, which is less than PSD major source level of 250 tons per year. *(Note: At some point after the year 2024, if the LFG generation rate continues to increase CO emissions from the flare (and other LFG combustion sources at the facility) could exceed the PSD major source level of 250 tons per year, making the facility a PSD major facility for CO.)*

Subsection D. Relevant Documents.

The documents listed below are not a part of this permit; however, they are specifically related to this permitting action.

These documents are provided to the permittee for information purposes only:

- Appendix A-1, Abbreviations, Acronyms, Citations, and Identification Numbers
- Table 3 - Summary of Compliance Reporting Requirements (40 CFR 60 Subpart WWW)
- Table H-1: Permit History
- Statement of Basis

The application documents relating to this project are on file with permitting authority*:

May 16, 2014 Title V Permit Revision 1150089-009-AV EPSAP application received.

The documents related to this permitting action are posted under permit No. 1150089-009-AV at the following web site address: <http://appprod.dep.state.fl.us/air/emission/apds/listpermits.asp>

Title V Permit Renewal EPSAP application received electronically on October 19, 2009

Tier 2 Non-Methane Organic Compounds (NMOC) Emission Rate Report for the Sarasota County CCSWDC received August 19, 2010 from consultant HDR Engineering, Inc. dated August 18, 2010

Application for a Title V Air Operation Permit Revision (EPSAP electronic application) received August 18, 2010

(Project Related Documents Note - See the **PROCESSING SCHEDULE AND RELATED DOCUMENTS** section in the Statement of Basis attachment for a more complete and detailed list of documents associated with this project.)*

Section II. Facility-wide Conditions.

The following conditions apply facility-wide:

1. Title V Conditions - Appendix TV-6, Title V Conditions, is a part of this permit.
 2. General Pollutant Emission Limiting Standards: Objectionable Odor Prohibited - The permittee shall not cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor. An objectionable odor is any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance.
[Rules 62-210.200 (Definitions) and 62-296.320(2), F.A.C.; Construction Permit 1150089-005-AC]
 3. General Particulate Emission Limiting Standards: General Visible Emissions (VE) Standard - Except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit, no person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart (20 percent opacity). EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C.
[Rules 62-296.320(4)(b)1. & 4., F.A.C.]
 4. Prevention of Accidental Releases (Section 112(r) of CAA) -
 - a. The permittee shall submit its Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center when, and if, such requirement becomes applicable. Any Risk Management Plans, original submittals, revisions or updates to submittals, should be sent to:

RMP Reporting Center
Post Office Box 10162
Fairfax, VA 22038
Telephone: (703) 227-7650
 - and,
 - b. The permittee shall submit to the permitting authority Title V certification forms or a compliance schedule in accordance with Rule 62-213.440(2), F.A.C.
- [40 CFR 68]
5. Unregulated Emissions Units and/or Activities - Appendix U-1, List of Unregulated Emissions Units and/or Activities, is a part of this permit.
[Rule 62-213.440(1), F.A.C.]
 6. Insignificant Emissions Units and/or Activities - Appendix I-1, List of Insignificant Emissions Units and/or Activities, is a part of this permit.
[Rules 62-213.440(1), 62-213.430(6) and 62-4.040(1)(b), F.A.C.]
 7. **[Not federally enforceable.]** General Pollutant Emission Limiting Standards: Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions - The permittee shall allow no person to store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds (VOC) or organic solvents (OS) without applying known and existing vapor emission control

devices or systems deemed necessary and ordered by the Department. Such controls include the following:

- a. Maintain all pipes, valves, fittings, etc., which handle VOCs in good operating condition.
- b. Immediately confine and clean up VOC spills and make sure wastes are placed in closed containers for reuse, recycling or proper disposal.

[Rule 62-296.320(1)(a), F.A.C.]

8. General Pollutant Emission Limiting Standards: Unconfined Emissions of Particulate Matter - No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity, including vehicular movement; transportation of materials; construction, alteration, demolition or wrecking; or industrially related activities such as loading, unloading, storing or handling; without taking reasonable precautions to prevent such emissions. Pursuant to Rules 62-296.320(4)(c)1., 3. & 4., F.A.C., reasonable precautions to prevent emissions of unconfined particulate matter at this facility include the following requirements (*see also Condition 57. of Appendix TV-6, Title V Conditions*):

(The following requirements are “not federally enforceable”)

- Paved access roads surrounding the active disposal area;
- Paved parking areas;
- Prohibiting unnecessary off-road travel;
- Removal of particulate matter from roads and other paved areas under the control of the permittee of the facility as necessary to prevent reentrainment, and from buildings or work areas to prevent particulate from becoming airborne;
- Application of water to paved and unpaved roads with high traffic volumes as necessary (*see Specific Condition 14. for associated recordkeeping requirements.*);
- Planting and maintenance of vegetation as necessary;
- Posting and enforcing a speed limit of 25 mph for vehicles traveling on roadways on site; and
- Utilization of best management practices to prevent fugitive emissions from any on-site construction projects.

[Rule 62-296.320(4)(c)2., F.A.C.]

9. When appropriate, any recording, monitoring, or reporting requirements that are time-specific shall be in accordance with the effective date of the permit, which defines day one.

[Rule 62-213.440, F.A.C.]

Permitting note - Where required, quarterly reports are to be submitted by calendar quarter.

10. Statement of Compliance - The annual statement of compliance pursuant to Rule 62-213.440(3)(a)2., F.A.C., shall be submitted to the Department and EPA within 60 (sixty) days after the end of the calendar year using DEP Form No. 62-213.900(7), F.A.C.

[Rules 62-213.440(3) and 62-213.900, F.A.C.]

(Permitting Note - This condition implements the requirements of Rules 62-213.440(3)(a)2. & 3., F.A.C. (*see Condition 51. of Appendix TV-6, Title V Conditions*).

11. Department Submittals - The permittee shall submit all compliance related notifications and reports required of this permit to the Department’s Southwest District Office:

Department of Environmental Protection
Southwest District Office
Air Compliance Section
13051 N. Telecom Parkway
Temple Terrace, Florida 336637-0926
Telephone: 813/632-7600
Fax: 813/632-7668

with a copy to the local county program office at:

Sarasota County ESBC
Air Quality/Storage Tank Management
1301 Cattleman Road
Building A
Sarasota, FL 34232
Telephone: (941) 378-6128
Fax: (941) 861-6280

12. USEPA Submittals - Any reports, data, notifications, certifications, and requests required to be sent to the United States Environmental Protection Agency, Region 4, should be sent to:

United States Environmental Protection Agency, Region 4
Air, Pesticides & Toxics Management Division
Air and EPCRA Enforcement Branch
Air Enforcement Section
61 Forsyth Street
Atlanta, Georgia 30303-8960
Telephone: 404/562-9155
Fax: 404/562-9163

13. Certification by Responsible Official (RO) - In addition to the professional engineering certification required for applications by Rule 62-4.050(3), F.A.C., any application form, report, compliance statement, compliance plan and compliance schedule submitted pursuant to Chapter 62-213, F.A.C., shall contain a certification signed by a responsible official that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. Any responsible official who fails to submit any required information or who has submitted incorrect information shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary information or correct information.
[Rule 62-213.420(4), F.A.C.]

14. Road Watering Records - In order to document compliance with the road watering requirement of Specific Condition No. 8., the permittee shall maintain daily records showing times road watering was conducted, and notations of the reasons (i.e., operating or weather conditions) for periods when watering was not considered necessary. Road watering of roads during operating hours is not required if there is no vehicular traffic on the roadways.
[Rule 62-213.440(1)(b), F.A.C.; as previously established in Title V Operation Permit 1150089-004-AV]

15. Annual Operating Report (AOR) - On or before **April 1** of each year, the permittee shall submit a completed DEP Form 62-210.900(5), "Annual Operating Report for Air Pollutant Emitting Facility"

(AOR) for the preceding calendar year. The report may be submitted electronically in accordance with the instructions received with the AOR package sent by the Department, or a hardcopy may be sent to the Air Compliance section of the Southwest District Office of the Department. (*See also Appendix TV-6, Title V Conditions, Condition No. 24(3).*)

IMPORTANT NOTES TO PERMITTEE:

Please reference the Permit No., Facility ID No., and appropriate Emissions Unit(s) ID No(s). on all correspondence, test report submittals, applications, etc

Permit Renewal - see Appendix TV-6, item 5

(Note: Permit renewal application is due 225 days prior to expiration date of this permit.)

Draft/Proposed

Section III. Emissions Unit and Conditions.

Subsection A. This section addresses the following emissions unit.

E.U. ID No. Brief Description

001 Municipal Solid Waste Landfill with LFG Collection System and LFG Candlestick Flare

This emission unit is a Class I municipal solid waste (MSW) disposal landfill. Landfill gas (LFG), primarily carbon dioxide, methane, and other non-methane organic compounds (NMOC), is generated from the decomposing MSW. The landfill currently consists of a Phase I area which began accepting waste on June 5, 1998, and a Phase II expansion area. (Phase I was expected to reach its maximum design capacity sometime in 2010.) This landfill has a permitted design capacity greater than 2.5 million megagrams by mass and 2.5 million cubic meters by volume, thereby making it subject to the requirements of NSPS 40 CFR Part 60 Subpart WWW (Standards of Performance for Municipal Solid Waste Landfills), adopted and incorporated by reference in Rule 62-204.800(7)(b), F.A.C.,

The landfill has a voluntarily installed (*i.e., not required by NSPS Subpart WWW – see paragraph below*) landfill LFG collection and control system in Phase I, with an open candlestick flare used to combust the collected LFG. The LFG collection system and candlestick flare control device became operational in May of 2010. The flare is designed to achieve 98% destruction efficiency of volatile organic compounds (VOC, including hazardous air pollutants (HAPs)) and NMOC. It will also assist in controlling odors from the facility. The flare was designed to combust up to 5,500 scfm of LFG collected from the landfill, and is equipped with a pilot flame fueled by propane/natural gas, a pilot monitoring thermocouple, a main flame monitoring thermocouple, an inlet flame arrestor, and a flame flashback indicator.

At the time of issuance of this Title V permit, NMOC emissions from the landfill were less than 50 Mg/year (estimated at 39.6 Mg/year for the year 2010*). Therefore, this landfill is not currently subject to the LFG collection and control system requirements of NSPS Subpart WWW, and the flare control device requirements of NSPS Subpart A 40 CFR 60.18. The flare was sized to handle the expected LFG generation from the landfill through the year 2024, and designed and installed with the capability to meet the above NSPS requirements in anticipation of the flare potentially being used in the future as an NSPS Subpart WWW LFG control device*.

(* *NMOC Estimated Emissions Note* - Based on the most recent NMOC emission rate report, which used the results of the June 2010 Tier 2 sampling results, it is anticipated that the NMOC emission rate will exceed 50 Mg/year during 2015.)

Leachate Cleanout Extraction Points Note – The leachate cleanout extraction points are not connected to the LFG collection system wellfield. It is intended to operate the leachate cleanout extraction points with minimal vacuum (and sometime positive pressure) to reduce the chance for air intrusion and potential subsurface combustion. The is expected to reduce the potential for damage to the base grade liner system which is in close proximity to the leachate cleanout piping.

The following specific conditions apply to the emissions unit 001 listed above:

Essential Potential to Emit (PTE) Parameters

A.1. Hours of Operation - This emissions unit is allowed to operate continuously, *i.e.*, 8,760 hours/year. [Rules 62-4.160(2), and 62-210.200 (Definitions – Potential to Emit), F.A.C.]

Federal New Source Performance Standards (NSPS) Requirements

A.2. Applicable Federal 40 CFR 60 NSPS MSW Landfill Standards - This emissions unit is subject to and shall comply with the applicable requirements of federal New Source Performance Standard (NSPS) 40 CFR 60 Subpart W (Standards of Performance for Municipal Solid Waste Landfills), as adopted and incorporated by reference in Rule 62-204.800(8)(b), F.A.C. contained in the attached Appendix NSPS 40 CFR 60 Subpart W (*see below for listing of applicable sections/subsections*). This emission unit is also subject to and shall comply with the applicable requirements of the 40 CFR 60 Subpart A General Provisions requirements, as adopted and incorporated by reference in Rules 62-204.800(8)(d), F.A.C., contained in the attached Appendix NSPS 40 CFR 60 Subpart A General Provisions.

40 CFR 60 Subpart W Applicable Provision References

Listed below in *italics* are the applicable sections/subsections of 40 CFR 60 Subpart W. These applicability references are based upon current facility operations and NMOC emission rates as reflected in the Tier 2 Non-Methane Organic Compounds Emission Rate Report for the Central County Solid Waste Disposal Complex dated August 18, 2010 *. Any change in operations may change the applicable provisions.

- 60.750** Applicability, designation of affected facility, and delegation of authority (Subpart W).
- (entire section)*
- 60.751** Definitions.
- (entire section)*
- 60.752** Standards for air emissions from municipal solid waste landfills.
- 60.752(b)*
- 60.752(d)*
- 60.754** Test methods and procedures.
- 60.754(a)*
- 60.754(c)*
- 60.757** Reporting requirements.
- 60.757(b) and (c)***
- 60.758** Recordkeeping requirements.
- 60.758(a)*

(* NSPS Subpart W Applicable Requirements Note - Based on the October 5, 2009 Tier 2 NMOC emission rate report, which showed estimated NMOC emissions of 39.59 Mg/year for the year 2010, this facility is currently not subject to the Subpart W LFG collection and control system requirements, nor the associated testing, monitoring, recordkeeping or reporting requirements.)

(** NSPS Subpart W NMOC Emission Rate Reporting Requirement Note - Until such time as an annual NMOC emission rate report is submitted which shows an estimated NMOC emissions rate from this landfill of ≥ 50 Mg/year, this reporting requirement is the primary Subpart W applicable requirement for this facility/emission unit. For convenience and emphasis, the reporting requirements of this section are included in this permit in Specific Condition No. A.3. below.)

[Rule 62-204.800(8), F.A.C.; 40 CFR 60 Subparts A and W]

A.3. NSPS Subpart W 40 CFR 60.757 (b) & (c) NMOC Emission Rate Reporting Requirements – The permittee shall comply with the following NMOC emission rate reporting requirements from Subpart W 40 CFR 60.757(b) & (c):

(Note - these requirements are also included in Appendix NSPS 40 CFR 60 Subpart WWW, which is attached to and a part of this permit. They are also shown here in the body of the permit in order to highlight them. Underlining has been added for emphasis.)

40 CFR 60.757 Reporting requirements

- (b) Each owner or operator subject to the requirements of this subpart shall submit an NMOC emission rate report to the Administrator initially and annually thereafter, except as provided for in paragraphs (b)(1)(ii) or (b)(3) of this section. The Administrator may request such additional information as may be necessary to verify the reported NMOC emission rate.
- (1) The NMOC emission rate report shall contain an annual or 5-year estimate of the NMOC emission rate calculated using the formula and procedures provided in §60.754(a) or (b), as applicable.
- (i) The initial NMOC emission rate report may be combined with the initial design capacity report required in paragraph (a) of this section and shall be submitted no later than indicated in paragraphs (b)(1)(i)(A) and (B) of this section. Subsequent NMOC emission rate reports shall be submitted annually thereafter, except as provided for in paragraphs (b)(1)(ii) and (b)(3) of this section.
- (A) June 10, 1996, for landfills that commenced construction, modification, or reconstruction on or after May 30, 1991, but before March 12, 1996, or
- (B) Ninety days after the date of commenced construction, modification, or reconstruction for landfills that commence construction, modification, or reconstruction on or after March 12, 1996.
- (ii) If the estimated NMOC emission rate as reported in the annual report to the Administrator is less than 50 megagrams per year in each of the next 5 consecutive years, the owner or operator may elect to submit an estimate of the NMOC emission rate for the next 5-year period in lieu of the annual report. This estimate shall include the current amount of solid waste-in-place and the estimated waste acceptance rate for each year of the 5 years for which an NMOC emission rate is estimated. All data and calculations upon which this estimate is based shall be provided to the Administrator. This estimate shall be revised at least once every 5 years. If the actual waste acceptance rate exceeds the estimated waste acceptance rate in any year reported in the 5-year estimate, a revised 5-year estimate shall be submitted to the Administrator. The revised estimate shall cover the 5-year period beginning with the year in which the actual waste acceptance rate exceeded the estimated waste acceptance rate.
- (2) The NMOC emission rate report shall include all the data, calculations, sample reports and measurements used to estimate the annual or 5-year emissions.
- (3) Each owner or operator subject to the requirements of this subpart is exempted from the requirements of paragraphs (b)(1) and (2) of this section, after the installation of a collection and control system in compliance with §60.752(b)(2), during such time as the collection and control system is in operation and in compliance with §§60.753 and 60.755.
- (c) Each owner or operator subject to the provisions of §60.752(b)(2)(i) shall submit a collection and control system design plan to the Administrator within 1 year of the first report required under paragraph (b) of this section in which the emission rate equals or exceeds 50 megagrams per year, except as follows:

- (1) If the owner or operator elects to recalculate the NMOC emission rate after Tier 2 NMOC sampling and analysis as provided in §60.754(a)(3) and the resulting rate is less than 50 megagrams per year, annual periodic reporting shall be resumed, using the Tier 2 determined site-specific NMOC concentration*, until the calculated emission rate is equal to or greater than 50 megagrams per year or the landfill is closed. The revised NMOC emission rate report, with the recalculated emission rate based on NMOC sampling and analysis, shall be submitted within 180 days of the first calculated exceedance of 50 megagrams per year.
- (2) If the owner or operator elects to recalculate the NMOC emission rate after determining a site-specific methane generation rate constant (k), as provided in Tier 3 in §60.754(a)(4), and the resulting NMOC emission rate is less than 50 Mg/yr, annual periodic reporting shall be resumed. The resulting site-specific methane generation rate constant (k) shall be used in the emission rate calculation until such time as the emissions rate calculation results in an exceedance. The revised NMOC emission rate report based on the provisions of §60.754(a)(4) and the resulting site-specific methane generation rate constant (k) shall be submitted to the Administrator within 1 year of the first calculated emission rate exceeding 50 megagrams per year.

(* Tier 2 Note - In accordance with 40 CFR 60.754(a)(3)(iii), the Tier 2 Sampling and Analysis to determine the site-specific NMOC concentration shall be re-done every 5 years.)

[Rule 62-204.800(8)(b), F.A.C.; NSPS Subpart WWW 40 CFR 60.757]

A.4. Notification of Relocation of the LFG Candlestick Flare - The permittee shall notify the Southwest District Air Compliance Section any time the LFG candlestick flare is relocated to a different location on the site. The notification shall be submitted in writing within 15 days of operation of the flare at the new location. The notification shall include the following information:

- a. the date operation of the flare was terminated at its previous location;
- b. the date the flare was relocated to its current location;
- c. a description of the new location, including a site plan of the facility showing the new and old location; and
- d. the reason for relocation of the flare.

[Rule 62-4.070(3), F.A.C.; Construction Permit 1150089-005-AC]

A.5. Applicable 40 CFR 61 NESHAP Subpart M Asbestos Disposal Standards - This emission unit is subject to and shall comply with the requirements of 40 CFR 61 National Emission Standard for Hazardous Air Pollutants (NESHAP) Subpart M - National Emission Standard for Asbestos (as adopted and incorporated by reference in Rule 62-204.800(10)(b) 8., F.A.C.) as they apply to asbestos disposal. The applicable portions of 40 CFR 61 Subpart M are shown below:

40 CFR 61.154 Standard for active waste disposal sites.

Each owner or operator of an active waste disposal site that receives asbestos-containing waste material from a source covered under § 61.149, 61.150, or 61.155 shall meet the requirements of this section:

- (a) Either there must be no visible emissions to the outside air from any active waste disposal site where asbestos-containing waste material has been deposited, or the requirements of paragraph (c) or (d) of this section must be met.

(b) Unless a natural barrier adequately deters access by the general public, either warning signs and fencing must be installed and maintained as follows, or the requirements of paragraph (c)(1) of this section must be met.

- (1) Warning signs must be displayed at all entrances and at intervals of 100 m (330 ft) or less along the property line of the site or along the perimeter of the sections of the site where asbestos-containing waste material is deposited. The warning signs must:
 - (i) Be posted in such a manner and location that a person can easily read the legend; and
 - (ii) Conform to the requirements of 51 cm × 36 cm (20&inch;×14&inch;) upright format signs specified in 29 CFR 1910.145(d)(4) and this paragraph; and
 - (iii) Display the following legend in the lower panel with letter sizes and styles of a visibility at least equal to those specified in this paragraph.

| Legend | Notation |
|---|--|
| Asbestos Waste Disposal Site..... | 2.5 cm (1 inch) Sans Serif, Gothic or Block. |
| Do Not Create Dust..... | 1.9 cm (3/4 inch) Sans Serif, Gothic or Block. |
| Breathing Asbestos is Hazardous to Your Health..... | 14 Point Gothic. |

Spacing between any two lines must be at least equal to the height of the upper of the two lines.

- (2) The perimeter of the disposal site must be fenced in a manner adequate to deter access by the general public.
 - (3) Upon request and supply of appropriate information, the Administrator will determine whether a fence or a natural barrier adequately deters access by the general public.
- (c) Rather than meet the no visible emission requirement of paragraph (a) of this section, at the end of each operating day, or at least once every 24-hour period while the site is in continuous operation, the asbestos-containing waste material that has been deposited at the site during the operating day or previous 24-hour period shall:
- (1) Be covered with at least 15 centimeters (6 inches) of compacted nonasbestos-containing material, or
 - (2) Be covered with a resinous or petroleum-based dust suppression agent that effectively binds dust and controls wind erosion. Such an agent shall be used in the manner and frequency recommended for the particular dust by the dust suppression agent manufacturer to achieve and maintain dust control. Other equally effective dust suppression agents may be used upon prior approval by the Administrator. For purposes of this paragraph, any used, spent, or other waste oil is not considered a dust suppression agent.
- (d) Rather than meet the no visible emission requirement of paragraph (a) of this section, use an alternative emissions control method that has received prior written approval by the Administrator according to the procedures described in § 61.149(c)(2).
- (e) For all asbestos-containing waste material received, the owner or operator of the active waste disposal site shall:
- (1) Maintain waste shipment records, using a form similar to that shown in Figure 4, and include the following information:

- (i) The name, address, and telephone number of the waste generator.
 - (ii) The name, address, and telephone number of the transporter(s).
 - (iii) The quantity of the asbestos-containing waste material in cubic meters (cubic yards).
 - (iv) The presence of improperly enclosed or uncovered waste, or any asbestos-containing waste material not sealed in leak-tight containers. Report in writing to the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for the waste generator (identified in the waste shipment record), and, if different, the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for the disposal site, by the following working day, the presence of a significant amount of improperly enclosed or uncovered waste. Submit a copy of the waste shipment record along with the report.
 - (v) The date of the receipt.
- (2) As soon as possible and no longer than 30 days after receipt of the waste, send a copy of the signed waste shipment record to the waste generator.
 - (3) Upon discovering a discrepancy between the quantity of waste designated on the waste shipment records and the quantity actually received, attempt to reconcile the discrepancy with the waste generator. If the discrepancy is not resolved within 15 days after receiving the waste, immediately report in writing to the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for the waste generator (identified in the waste shipment record), and, if different, the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for the disposal site. Describe the discrepancy and attempts to reconcile it, and submit a copy of the waste shipment record along with the report.
 - (4) Retain a copy of all records and reports required by this paragraph for at least 2 years.
- (f) Maintain, until closure, records of the location, depth and area, and quantity in cubic meters (cubic yards) of asbestos-containing waste material within the disposal site on a map or diagram of the disposal area.
 - (g) Upon closure, comply with all the provisions of § 61.151.
 - (h) Submit to the Administrator, upon closure of the facility, a copy of records of asbestos waste disposal locations and quantities.
 - (i) Furnish upon request, and make available during normal business hours for inspection by the Administrator, all records required under this section.
 - (j) Notify the Administrator in writing at least 45 days prior to excavating or otherwise disturbing any asbestos-containing waste material that has been deposited at a waste disposal site and is covered. If the excavation will begin on a date other than the one contained in the original notice, notice of the new start date must be provided to the Administrator at least 10 working days before excavation begins and in no event shall excavation begin earlier than the date specified in the original notification. Include the following information in the notice:
 - (1) Scheduled starting and completion dates.
 - (2) Reason for disturbing the waste.
 - (3) Procedures to be used to control emissions during the excavation, storage, transport, and ultimate disposal of the excavated asbestos-containing waste material. If deemed necessary, the Administrator may require changes in the emission control procedures to be used.

- (4) Location of any temporary storage site and the final disposal site. (Secs. 112 and 301(a) of the Clean Air Act as amended (42 U.S.C. 7412, 7601(a)).

Draft/Proposed

Subsection B. This section addresses the following emissions unit (EU).

| <u>EU ID No.</u> | <u>Brief Description</u> |
|-------------------------|---|
| 006 | Emergency Stationary Compression Ignition (CI) Reciprocating Internal Combustion Engine (RICE) Manufactured after April 1, 2006 (<i>subject to NSPS 40 CFR 60 Subpart IIII</i>) |

This emissions unit consists of the emergency stationary compression ignition (CI) internal combustion back-up generator engine as *shown below*:

| Manufacturer & Model | HP Rating | Date (Year) of Manuf./Const. | Emergency Generator Location |
|-----------------------|------------------------|------------------------------|------------------------------|
| Caterpillar Model LCS | 176 (<i>est.</i>) | 2010 | Phase II of MSW Landfill |

(* “New” Engine Note – This engine considered “new” stationary reciprocating internal combustion engines (RICE) in accordance with the provision of NESHAP Subpart ZZZZ, 40 CFR 63.6590(a)(2), based on its date of manufacture/construction.)

NOTE - IMPORTANT REGULATORY CLASSIFICATIONS -

This Title V facility contains an emergency stationary compression ignition (CI) internal combustion back-up generator engine (*shown above*) that has been exempted from the requirements to obtain an air construction permit because it qualifies for one of the categorical exemptions listed in Rule 62-210.300(3)(a), F.A.C. (specifically, Rule 62-210.300(3)(a)35, F.A.C. (Emergency generators). However, it is included in this permit as regulated emission units because, based on its date of manufacture/construction, it is subject to federal rule NSPS 40 CFR 60 Subpart IIII (Standards of Performance for Stationary Compression Ignition Internal Engines), as adopted and incorporated by reference in Rule 62-204.800(8)(b), F.A.C.

The following specific condition(s) apply to the emissions unit 006 listed above:

B.1. Applicable Federal 40 CFR 60 NSPS Standard - The emergency compression ignition (CI) diesel engine in this emission unit is subject to and shall comply with the applicable requirements* of New Source Performance Standard (NSPS) 40 CFR 60 Subpart IIII (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines), and 40 CFR 60 Subpart A (General Provisions for 40 CFR 60), both adopted and incorporated by reference in Rule 62-204.800(8), F.A.C. The applicable requirements of 40 CFR 60 Subpart IIII are included as part of this permit in the appendix shown below:

Engine(s)

Caterpillar Model LCS

Applicable NSPS 40 CFR 60 Subpart IIII Appendix

Appendix NSPS 40 CFR 60 Subpart IIII , Condition Set IIIIG (Owner/operator 2007 and later model, non-fire pump emergency, less than 10L per cylinder)

(* NSPS Subpart IIII Note -The engine listed above is currently demonstrating compliance with the emissions limitations of NSPS 40 CFR 60 Subpart IIII through the retention of a manufacturer's certification statement. So long as that certification is able to be retained, no additional compliance demonstration is required. At such time that the manufacturer's certification is no longer valid (i.e. due to operation or maintenance practices that are inconsistent with the manufacturer's recommendations), the permittee shall begin demonstrating compliance with the standards listed in 40 CFR 60 Subpart IIII (included in the appendices as an enforceable part of this permit) in a manner that is prescribed by that rule.)

[Rule 62-204.800(8), F.A.C.; 40 CFR 60 Subparts A and IIII]

Draft/Proposed

Subsection C. This section addresses the following emissions units (EUs).

| E.U. ID No. | Brief Description |
|-------------|---|
| 007 | Existing Emergency Stationary Compression Ignition (CI) Reciprocating Internal Combustion Engines (RICE) (subject to NESHAP 40 CFR 63 Subpart ZZZZ) |
| 008 | Existing Stationary Compression Ignition (CI) Reciprocating Internal Combustion Engines (RICE) rated at ≤ 300 HP (subject to NESHAP 40 CFR 63 Subpart ZZZZ) |
| 009 | Existing Stationary 4-Stroke Lean Burn (4SLB) Spark Ignition (SI) Reciprocating Internal Combustion Engines (RICE) (subject to NESHAP 40 CFR 63 Subpart ZZZZ) |

EU 007 - Existing Emergency Stationary CI RICE, consists of the following stationary emergency* compression ignition (CI) engines at this facility:

| Manufacturer & Model | HP Rating | Date (Year) of Manuf./Const. | Emergency* Generator Location/Purpose |
|-----------------------------------|------------------|------------------------------|---------------------------------------|
| Caterpillar Model 3056 | 123.5 | 1997 | Administration Bldg. |
| Deutz Model FL3 2011 | 40 | 2004 | pump |
| Generac Model 97A 0436-S | 176 (est.) | 1997 | aux. generator |

(* *Emergency RICE Note* – In order to be considered an emergency RICE subject to the 40 CFR 63 Subpart ZZZZ requirements for emergency CI RICE, the engine must be operated in accordance with the requirements specified in 40 CFR 63.6640(f).)

EU 008 - Existing Stationary CI RICE < 300 HP, consists of the following stationary compression ignition (CI) engines at this facility:

| Manufacturer & Model | HP Rating | Date (Year) of Manuf./Const. | Engine Location/Purpose |
|-----------------------------|-----------|------------------------------|-------------------------|
| John Deere Model Series 300 | 48 (est.) | 1987 | compressor |
| John Deere Model 4024TF270 | 46 | pre-2005 | wheel crusher |
| Kubota Model V2003 | 44 | pre-2005 | wheel crusher |
| Continental Model TMD 27 | 27 | pre-2005 | welder |

EU 009 - Existing Stationary 4SLB SI RICE, consists of the following stationary 4-stroke lean burn (4SLB) spark ignition (SI) engines at this facility:

| Manufacturer & Model | HP Rating | Date (Year) of Manuf./Const. | Engine Location/Purpose |
|------------------------------------|-----------|------------------------------|----------------------------|
| Honda Model EB 3500 | 12.5 | 2002 | emergency generator (V) |
| Honda Model GX340 | 11 | pre-2008 | pressure washer pump (Cty) |
| Honda Model GX120 | 4 | 2002 | pump (Cty) |
| Honda Model GX120 (2) | 4 each | pre-2008 | pumps (2) (Cty) |
| Kohler Model CH 12.5S | 12.5 | 2003 | air compressor (Cty) |
| Briggs & Stratton Model 185432 (2) | 9 each | pre-2008 | pumps (2) (V) |
| Honda Model GX200 | 4 | pre-2008 | air compressor (V) |
| Kohler Model CH 20S | 20 | pre-2008 | welder (V) |
| Onan Model Performer 16 | 16 | 1998 | generator/welder (Cty) |
| Kohler Model Command Pro 5 | 12.5 | 2002 | air compressor (Cty) |
| Honda Model GX240 | 8 | pre-2008 | pressure washer (WCA) |
| Titan Model 14550P | 5 | pre-2008 | pressure washer (WCA) |
| Honda Model GX120 | 4 | pre-2008 | pump (WCA) |
| Kohler Model CH 12.5S | 12.5 | pre-2008 | air compressor (WCA) |

(V) = owned and operated by Veolia (Cty) = owned and operated by Sarasota County (WCA) = owned and operated by WCA

(Permitting Note) – All of the above stationary CI and SI RICE engines are exempt from the construction permit requirements of Rule 62-210.300(1), F.A.C., in accordance with the provisions of Rule 62-210.300(3)(a)36., F.A.C. (i.e., conditional exemption for general purpose internal combustion engines based on overall fuel usage in accordance with the provisions of Rules 62-210.300(3)(a)36.c and e., F.A.C.)

(Stationary RICE Engine Listing Note) – The above listings of stationary CI and SI RICE engines at this facility is based upon the information submitted in an attachment to a November 1, 2010 HDR Inc. email responding to a Department request for additional information on stationary RICE at the facility.)

NOTE - IMPORTANT REGULATORY CLASSIFICATIONS:

Federal 40 CFR 60 New Source Performance Standard (NSPS) Applicability

NSPS Subpart IIII – NSPS 40 CFR 60 Subpart IIII (Standards of Performance for Stationary Compression Ignition (CI) Internal Combustion Engines) does not apply to any of these CI engines based on their date of manufacture (i.e., before June 12, 2006).

NSPS Subpart JJJJ – NSPS 40 CFR 60 Subpart JJJJ (Standards of Performance for Stationary Spark Ignition (SI) Internal Combustion Engines) does not apply to any of these SI engines based on their date of manufacture (i.e., before July 1, 2008).

Federal 40 CFR 63 National Emissions Standard for Hazardous Air Pollutants (NESHAP) Applicability

NESHAP Subpart ZZZZ - NESHAP 40 CFR 63 Subpart ZZZZ (National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines) is applicable to these engines as existing stationary Reciprocating Internal Combustion Engines (RICE) at an area source of hazardous air pollutants (HAPs).

The following specific conditions apply to the emissions units listed above:

Operation Requirements

C.1. Operating Hours - There are no specific limitations on operating hours for these engines. (See also the Permitting Note below the descriptions of these emission units.)

Applicable Federal Requirements

C.2. Federal 40 CFR 63 NESHAP Subpart ZZZZ Requirements - The engines in EU Nos. 007, 008 and 009 are subject to the applicable requirements of NESHAP 40 CFR 63 Subpart ZZZZ (National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines), which is attached to this permit as **Appendix NESHAP 40 CFR 63 Subpart ZZZZ**, as it applies to existing RICE at area sources of hazardous air pollutants (HAP). The applicable requirements for each engine category and HP rating range are shown in the **Summary of NESHAP 40 CFR 63 Subpart ZZZZ Applicable Requirements for Existing RICE at Area Sources of HAP**, attached to this permit.

[Rule 62-4.070(3), F.A.C.; NESHAP 40 CFR 63 Subpart ZZZZ]

*(Compliance Note – The final compliance date for the applicable Subpart ZZZZ requirements for the existing compression ignition (**CI**) RICE engines at this area source of HAP is 05/03/2013. The final compliance date for the applicable Subpart ZZZZ requirements for the existing spark ignition (**SI**) RICE engines is 10/19/2013. (40 CFR 63.6595(a)(1).)*

C.3. Federal NESHAP 40 CFR 63 Subpart A General Provisions Requirements - The engines in EU Nos. 007, 008 and 009 are subject to the applicable requirements of NESHAP 40 CFR 63 Subpart A (General Provisions for 40 CFR 63), as adopted and incorporated by reference in Rules 62-204.800(11)(d), F.A.C., which is attached to this permit as **Appendix NESHAP 40 CFR 63 Subpart A General Provisions**. The applicable requirements of Subpart A are shown in Table 8 to 40 CFR 63 Subpart ZZZZ (see *Appendix NESHAP 40 CFR 63 Subpart ZZZZ*).

[Rule 62-208.800(11)(d), F.A.C.; NESHAP 40 CFR 63 Subpart ZZZZ]

Subsection D. This section addresses the following emissions units (EUs).

The specific conditions in this section apply to the following emissions units:

| <u>EU No.</u> | <u>Brief Description</u> |
|----------------------|---|
| <u>014</u> | <u>Compression Ignition NSPS Emergency Generator</u> |

This 126 HP (94 kW) compression ignition emergency generator engine will provide power service to the administration/scale house buildings at the Central County Solid Waste Disposal Complex. This engine is not part of a demand response program and it will not be used for peak shaving or planned for non emergency operation, except that non-emergency and non-maintenance operation will not exceed 50 hours per year. The engine does not have a continuous emissions monitoring system (CEMS) or continuous parameter monitoring system (CPMS) for any pollutant.

This engine is a regulated emissions unit pursuant to 40 CFR 63, Subpart ZZZZ, NESHAP for Stationary Reciprocating Internal Combustion Engines (CI RICE) and 40 CFR 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.

The following table provides important information about this engine:

| <u>Engine Brake HP (kW)</u> | <u>Date of Order /Manufactured</u> | <u>Model Year</u> | <u>Displacement liters/cylinder (l/c)</u> | <u>Engine Manufacturer</u> | <u>Model No./ Serial No.</u> |
|------------------------------------|--|--------------------------|--|-----------------------------------|--|
| <u>126 HP (94 kW)</u> | <u>September 5, 2013 November 5, 2013</u> | <u>2013</u> | <u>1.125</u> | <u>John Deere</u> | <u>4045HF285 PE4045L24796</u> |

{Permitting Notes: This emergency compression ignition reciprocating internal combustion engines (CI RICE) is regulated under 40 CFR 63, Subpart ZZZZ, NESHAP for Stationary RICE and 40 CFR 60, Subpart IIII, NSPS for Stationary Compression Ignition RICE, adopted in Rules 62.204.800(11)(b) & (8)(b), F.A.C., respectively. This permit section addresses a “new” stationary emergency CI RICE with a displacement of less than 10 liters per cylinder, located at an area source of HAP, that has not been modified, reconstructed or commenced construction on or after 6/12/2006, and that has a post-2007 model year. In accordance with provisions of 40 CFR 63.6590(c)(6), meeting the requirements of 40 CFR 60, Subpart IIII, satisfies compliance with the requirements of Subpart ZZZZ.}

Essential Potential to Emit (PTE) Parameters

D.1. Authorized Fuel. These Stationary Reciprocating Internal Combustion Engines (RICE) must use diesel fuel that meets the following requirements for non-road diesel fuel:

- a. Sulfur Content. The sulfur content shall not exceed = 15 ppm = 0.0015% by weight (ultra low sulfur) for non-road fuel.**
- b. Cetane and Aromatic. The fuel must have a minimum cetane index of 40 or must have a maximum aromatic content of 35 volume percent.**
[40 CFR 60.4207(b), 80.510(b)]

D.2. Restricted Hours of Operation. The following limitations apply individually to each engine:

- a. Emergency Situations. There is no time limit on the use of emergency stationary RICE in emergency situations. [40 CFR 60.4211(f)(1)]**
- b. Other Situations. You may operate these emergency stationary RICE for any combination of the purposes specified in paragraphs b.(1) through (3) for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph c. counts as part of the 100 hours per calendar year allowed by this paragraph.**

- (1) **Maintenance and Testing.** Each engine is authorized to operate for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year. [40 CFR 60.4211(f)(2)(i)]
 - (2) **Emergency Demand Response.** Each engine may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see 40 CFR 63.14), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3. [40 CFR 60.4211(f)(2)(ii)]
 - (3) **Voltage or Frequency Deviations.** Each engine may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency. [40 CFR 60.4211(f)(2)(iii)]
- c. **Non-emergency Situations.** These engines may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph b., above. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. [40 CFR 60.4211(f)(3)]

Emissions Standards

- D.3. NMHC + NO_x Emissions.** Emissions of non-methane hydrocarbons (NMHC) plus nitrogen oxide NO_x shall not exceed 4.0 grams per kilowatt hour (g/kW-hr). [40 CFR 60.4205(b), 40 CFR 60.4202(a)(2) & 40 CFR 89.112(a)]
- D.4. CO Emissions.** Carbon monoxide (CO) emissions shall not exceed 5.0 g/kW-hr. [40 CFR 60.4205(b), 40 CFR 60.4202(a)(2) & 40 CFR 89.112(a)]
- D.5. PM Emissions.** Particulate matter (PM) emissions shall not exceed 0.30 g/kW-hr. [40 CFR 60.4205(b), 40 CFR 60.4202(a)(2) & 40 CFR 89.112(a)]

Monitoring Requirements

- D.6. Hour Meter.** The owner or operator must install a non-resettable hour meter on each engine if one is not already installed. [40 CFR 60.4209(a)]

Testing and Compliance Requirements

- D.7. Operation and Maintenance.** The owner or operator must operate and maintain these engines according to the manufacturer's written instructions. In addition, owners and operators may only change those settings that are permitted by the manufacturer. This RICE must be maintained and operated to meet the emissions limits in Specific Condition **Error! Reference source not found.**, – **D.5.** over the entire life of the engine. [40 CFR 60.4206 & 4211(a)]
- D.8. Engine Certification Requirements.** The owner or operator must comply with the emissions standards specified above by having purchased an engine certified by the manufacturer to meet those

limits. The engine must have been installed and configured according to the manufacturer's emission-related specifications, except as permitted in Specific Condition D.7. [40 CFR 60.4211(c)]

D.9. Compliance Requirements Due to Loss of Certification. If you do not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, you must 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 you must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer. [40 CFR 60.4211(c) & (g)(2)]

D.10. Testing Requirements. In the event performance tests are required pursuant to Specific Condition D.9., the following requirements shall be met:

- a. Testing Procedures. The performance test must be conducted according to the in-use testing procedures in 40 CFR Part 1039, Subpart F. [Link to Subpart F](#)
- b. NTE Standards. Exhaust emissions from these engines must not exceed the not-to-exceed (NTE) numerical requirements, rounded to the same number of decimal places as the applicable standard (STD) in Specific Conditions D.3. – D.5., determined from the following equation:

$$\text{NTE Requirement For Each Pollutant} = (1.25) \times (\text{STD}) \quad (\text{Eq. 1})$$

[40 CFR 60.4212(a) & (c)]

D.11. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

Records and Reports

D.12. Testing Notification. At such time that the requirements of Specific Condition D.10. become applicable, the owner or operator shall notify the compliance authority of the date by which the initial compliance test must be performed. [Rule 62-213.440(1), F.A.C.]

D.13. Hours of Operation Records. The owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The owner or operator must record the time of operation of the engine and the reason the engine was in operation during that time. [Rule 62-213.440(1), F.A.C. and 40 CFR 60.4214(b)]

D.14. Maintenance Records. To demonstrate conformance with the manufacturer's written instructions for maintaining the certified engine and to document when compliance testing must be performed pursuant to Specific Conditions D.9. & **Error! Reference source not found.**, the owner or operator must keep the following records:

- a. Engine manufacturer data indicating compliance with the standards.
- b. A copy of the manufacturer's written instructions for operation and maintenance of the certified engine.
- c. A written maintenance log detailing the date and type of maintenance performed on the engine, as well as any deviations from the manufacturer's written instructions.

[Rule 62-213.440(1), F.A.C.; and, 40 CFR 60.4211(c) & (g)]

D.15. Annual Report of Allowed Non-Emergency Operation. If you operate this engine for the purposes allowed in Specific Condition D.2.b.**Error! Reference source not found.** or (3), you must submit an annual report according to the following requirements:

- a. The report must contain the following information:
 - (1) Company name and address where the engine is located.
 - (2) Date of the report and beginning and ending dates of the reporting period.
 - (3) Engine site rating and model year.
 - (4) Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.
 - (5) Hours operated for the purposes specified in Specific Condition **Error! Reference source not found.** or (3), including the date, start time, and end time for engine operation for the purposes specified.
- b. The first annual report must cover the calendar year 2015 and must be submitted no later than March 31, 2016. Subsequent annual reports for each calendar year must be submitted no later than March 31 of the following calendar year.
- c. The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the Administrator at the appropriate address listed in 40 CFR 60.4. [Link to 40 CFR 60.4](#)
[40 CFR 60.4214(d)]

D.16. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.]

General Provisions

D.17. 40 CFR 60 Subpart A, General Provisions. The owner or operator shall comply with the applicable requirements of 40 CFR 60 Subpart A, General Provisions, as specified below. [Link to 40 CFR 60, Subpart A - General Provisions.](#)

| <u>General Provisions Citation</u> | <u>Subject of Citation</u> |
|---|--|
| <u>§ 60.1</u> | <u>General applicability of the General Provisions</u> |
| <u>§ 60.2</u> | <u>Definitions (see also § 60.4219)</u> |
| <u>§ 60.3</u> | <u>Units and abbreviations</u> |
| <u>§ 60.4</u> | <u>Address</u> |
| <u>§ 60.5</u> | <u>Determination of construction or modification</u> |
| <u>§ 60.6</u> | <u>Review of plans</u> |
| <u>§ 60.9</u> | <u>Availability of information</u> |
| <u>§ 60.10</u> | <u>State Authority</u> |
| <u>§ 60.12</u> | <u>Circumvention</u> |
| <u>§ 60.14</u> | <u>Modification</u> |
| <u>§ 60.15</u> | <u>Reconstruction</u> |
| <u>§ 60.16</u> | <u>Priority list</u> |
| <u>§ 60.17</u> | <u>Incorporations by reference</u> |
| <u>§ 60.19</u> | <u>General notification and reporting requirements</u> |

[40 CFR 60.4218]

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