Miami-Dade Water and Sewer Department
Central District Wastewater Treatment Plant

Facility ID No. 0250476
Miami-Dade County

Title V Air Operation Permit Renewal and Revision

Permit No. 0250476-012-AV
(Renewal and Revision of Title V Air Operation Permit No. 0250600-010-AV)

Permitting Authority:

State of Florida
Department of Environmental Protection
Air Resource Management, Southeast District

3301 Gun Club Road; MSC 7210-1
West Palm Beach, Florida 33406

Telephone: (561) 681-6600
sed.air@dep.state.fl.us

Compliance Authority:

State of Florida
Department of Environmental Protection
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Title V Air Operation Permit Renewal

FINAL Permit No.: 0250476-012-AV

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DRAFT/PROPOSED PERMIT

Permittee:
Miami-Dade Water and Sewer Department
PO Box 330316
Miami, FL 33233-0316

FINAL Permit No.: 0250476-012-AV
Facility ID No.: 0250476
SIC No.: 4952
Project: Title V Air Operation Permit Renewal

The purpose of this permit is to renew the Title V Air Operation Permit and to incorporate the emissions units constructed or modified since the existing permit was issued. This existing facility is located at 3869 Rickenbacker Causeway; UTM Coordinates: Zone 17, 585.19 km East and 2848.09 km North; and, Latitude: 25° 44' 54" North and Longitude: 80° 09' 02" West.

This Title V Air Operation Permit Renewal 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 A, Abbreviations, Acronyms, Citations and Identification Numbers
Appendix CP, Compliance Plan. (For Oxidation Catalyst Installations)
Appendix I, List of Insignificant Emissions Units and/or Activities
Appendix NESHAP, Subpart A – General Provisions (For all units that are subject to NESHAP)
Appendix NESHAP, Subpart ZZZZ -- National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
Appendix NSPS, Subpart A – General Provisions (For all units that are subject to NSPS)
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Appendix TV-6, TITLE V CONDITIONS version dated 02/16/2012
Appendix U, List of Unregulated Emissions Units and/or Activities

Effective Date: Date
Renewal Application Due Date: Date
Expiration Date: Date

_____ _____
Jennifer K. Smith Date
Southeast District Assistant Director

JKS/dmp/lch/sdt

Section I. Facility Information.

Subsection A. Facility Description.

The Miami-Dade Water and Sewer Department (MDWASD) Central District Wastewater Treatment Plant consists of two parallel wastewater treatment trains that provide primary and secondary wastewater treatment for municipal sewage generated in the Central portions of Miami-Dade County. Train No. 1 is rated at 60 million gallons per day (MGD) annual average flow and Train No. 2 is rated at 83 MGD annual average flow. The total facility is rated at 143 MGD annual average daily flow. The liquid processes is designated as Emissions Unit (EU) 008 that consist of aerated grit chambers, oxygenation tanks, sludge concentration tanks, secondary clarifiers, and chlorine contact basins.

Electricity for in-plant operations is produced by two nominal 1.2 MW Cooper Superior Digester Gas Electric Cogenerator engines (model 16GTLB) designated as EU 007, 009, and two nominal 1.2 MW Superior Digester Gas Electric Cogenerator engines (model 16GTLD) designated as 021, and 022. EU's 021 and 022 replaced EU's 010 and 011 which were removed. Backup emergency power is provided by three nominal 2.5 Megawatt (MW) diesel engine-driven electric standby generators (model EMD 20-645E4B) designated as EU 013, 014, and 015; and two nominal 2.865 MW diesel engine electric standby generators, (model 20-645F4B) designated as EU 019 and 020. A 37 HP Diesel Engine, designated at EU 023, is available to provide compressed air to start the emergency generators in the event all electrical power is lost at the facility. In addition, there are eleven digester gas flares at the facility designated as EU 018.

There is an agreement with the local utility, that the facility provide peak shaving or non-emergency demand response, in exchange for financial incentives to the facility. Because of this agreement, per Federal Rule 40 CFR 63 Subpart ZZZZ, the existing diesel driven standby generators (EU 013, 014, 015, 019 and 020) are considered to be non-emergency engines, and therefore require the installation of oxidation catalysts. The facility is in the process of installing the catalysts per the attached compliance plan (Appendix CP). The 37 HP Diesel Engine (EU023) is now regulated by the Federal Regulation 40 CFR 63 Subpart ZZZZ and incorporated as such in this permit.

Also included in this permit are miscellaneous unregulated/insignificant emissions units and/or activities.

Based on the Title V Air Operation Permit Renewal application received September 15, 2014, this facility is not a major source of hazardous air pollutants (HAPs).

Subsection B. Summary of Emissions Unit ID Nos. and Brief Descriptions.

E.U. ID No.	Brief Description
007	1.2 MW Digester Gas Electric Cogenerator model 16GTLB (#1)
009	1.2 MW Digester Gas Electric Cogenerator model 16GTLB (#2)
~~010~~	~~1.2 MW Digester Gas Electric Cogenerator model 16GTLB (#3)~~ (Removed)
~~011~~	~~1.2 MW Digester Gas Electric Generator model 16GTLB (#4)~~ (Removed)
013	2.5 MW Diesel Engine Electric Generator model EMD 20-645E4 (#1)
014	2.5 MW Diesel Engine Electric Generator model EMD 20-645E4 (#2)
015	2.5 MW Diesel Engine Electric Generator model EMD 20-645E4 (#3)
019	2.865 MW Diesel Engine Electric Generator model EMD 20-645F4B (# 4)
020	2.865 MW Diesel Engine Electric Generator model EMD 20-645F4B (# 5)
021	1.2 MW Digester Gas Electric Cogenerator #3 (New)

022 1.2 MW Digester Gas Electric Cogenerator #4 (New)
023 37.7 hp Hatz Diesel Driven Air Compressor (existing - newly regulated)

Unregulated Emission Units and/or Activities
008 Wastewater Treatment Plant-Liquid Processes
018 Digester Gas Flares

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

Subsection C. 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
Appendix H-1, Permit History
Statement of Basis

These documents are on file with the permitting authority:
Initial Title V Air Operation Permit issued December 30, 1999
Title V Air Operation Permit Renewal/Revision/Construction received April 16, 2004
Title V Air Operation Permit Administrative Correction issued May 8, 2006
Application for a Title V Air Operation Permit Renewal received September 16, 2009
Title V Air Operation Permit 0250476-010-AV issued May 12, 2010
Application for a Title V Construction Permit received December 4, 2012
Air Construction Permit 0250476-011-AC issued February 13, 2013
Application for a Title V Air Operation Permit Renewal and Revision received September 4, 2014

The following conditions apply facility-wide to all emission units and activities:

FW1. Appendices. The permittee shall comply with all documents identified in Section IV, Appendices, listed in the Table of Contents. Each document is an enforceable part of this permit unless otherwise indicated.
[Rule 62-213.440, F.A.C.]

Emissions and Controls

FW2. **Not federally Enforceable.** Objectionable Odor Prohibited. No person shall cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. An "objectionable odor" means 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.
[Rule 62-296.320(2) and 62-210.200(Definitions), F.A.C.]

FW3. General 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 or organic solvents without applying known and existing vapor emission control devices or systems deemed-necessary and ordered by the Department.
[Rule 62-296.320(1), F.A.C.]

{Permitting Note: Nothing is deemed necessary and ordered at this time.}

FW4. General Visible Emissions. No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity equal to or greater than 20% opacity. EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C. This regulation does not impose a specific testing requirement.
[Rule 62-296.320(4)(b)1, F.A.C.]

FW5. Unconfined 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. Reasonable precautions to prevent emissions of unconfined particulate matter at this facility include:

a. Paving and maintenance of roads, parking areas and yards
b. Application of water or chemicals to control emissions from such activities as demolition of buildings, grading roads, construction, and land clearing
c. Application of asphalt, water, oil, chemicals or other dust suppressants to unpaved roads, yards, open stock piles and similar activities.
d. Removal of particulate matter from roads and other paved areas under the control of the owner or operator of the facility to prevent reentrainment, and from buildings or work areas to prevent particulate from becoming airborne.
e. Landscaping or planting of vegetation.
f. Use of hoods, fans, filters, and similar equipment to contain, capture and/or vent particulate matter.
g. Confining abrasive blasting where possible.
h. Enclosure or covering of conveyor systems.

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

Annual Reports and Fees

See Appendix RR, Facility-wide Reporting Requirements for additional details.

FW6. Electronic Annual Operating Report and Title V Annual Emissions Fees. The information required by the Annual Operating Report for Air Pollutant Emitting Facility [Including Title V Source Emissions Fee Calculation] (DEP Form No. 62-210.900(5)) shall be submitted by April 1 of each year, for the previous calendar year, to the Department of Environmental Protection's Division of Air Resource Management. Each Title V source shall submit the annual operating report using the DEP's Electronic Annual Operating Report (EAOR) software, unless the Title V source claims a technical or financial hardship by submitting DEP Form No. 62-210.900(5) to the DEP Division of Air Resource Management instead of using the reporting software. Emissions shall be computed in accordance with the provisions of subsection 62-210.370(2), F.A.C. Each Title V source must pay between January 15 and April 1 of each year an annual emissions fee in an amount determined as set forth in subsection 62-213.205(1), F.A.C. The annual fee shall only apply to those regulated pollutants, except carbon monoxide and greenhouse gases, for which an allowable numeric emission-limiting standard is specified in the source's most recent construction permit or operation permit. Upon completing the required EAOR entries, the EAOR Title V Fee Invoice can be printed by the source showing which of the reported emissions are subject to the fee and the total Title V Annual Emissions Fee that is due. The submission of the annual Title V emissions fee payment is also due (postmarked) by April 1st of each year. A copy of the system-generated EAOR Title V Annual Emissions Fee Invoice and the indicated total fee shall be submitted to: **Major Air Pollution Source Annual Emissions Fee, P.O. Box 3070, Tallahassee, Florida 32315-3070.** Additional information is available by accessing the Title V Annual Emissions Fee On-line Information Center at the following Internet web site: http://www.dep.state.fl.us/air/emission/tvfee.htm.
[Rules 62-210.370(3), 62-210.900 & 62-213.205, F.A.C.; and, §403.0872(11), Florida Statutes (2013)]

{Permitting Note: Resources to help you complete your AOR are available on the electronic AOR (EAOR) website at: http://www.dep.state.fl.us/air/emission/eaor. If you have questions or need assistance after reviewing the information posted on the EAOR website, please contact the Department by phone at (850) 717-9000 or email at eaor@dep.state.fl.us.}

{Permitting Note: The Title V Annual Emissions Fee form (DEP Form No. 62-213.900(1)) has been repealed. ***A separate Annual Emissions Fee form is no longer required to be submitted by March 1st each year.****}*

FW7. Annual Statement of Compliance. The permittee shall submit an annual statement of compliance to the compliance authority at the address shown on the cover of this permit within 60 days after the end of each calendar year during which the Title V permit was effective.
[Rules 62-213.440(3)(a)2. & 3. and (b), F.A.C.]

FW8. Prevention of Accidental Releases (Section 112(r) of CAA).

a. As required by Section 112(r)(7)(B)(iii) of the CAA and 40 CFR 68, the owner or operator shall submit an updated Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center. (See paragraph e., below.)
b. As required under Section 252.941(1)(c), F.S., the owner or operator shall report to the appropriate representative of the Division of Emergency Management, as established by department rule, within one working day of discovery of an accidental release of a regulated substance from the stationary source, if the owner or operator is required to report the release to the United States Environmental Protection Agency under Section 112(r)(6) of the CAA.
c. The owner or operator shall submit the required annual registration fee to the Division of Emergency Management on or before April 1, in accordance with Part IV, Chapter 252, F.S., and Rule 9G-21, F.A.C.

d. Any required written reports, notifications, certifications, and data required to be sent to the Division of Emergency Management, should be sent to: Division of Emergency Management, 2555 Shumard Oak Boulevard, Tallahassee, FL 32399-2100, Telephone: (850) 413-9970, Fax: (850) 488-1739.
e. Any Risk Management Plans, original submittals, revisions, or updates to submittals, should be sent electronically through EPA's Central Data Exchange system at the following address: https://cdx.epa.gov. Information on electronically submitting risk management plans using the Central Data Exchange system is available at: http://www2.epa.gov/rmp. The RMP Reporting Center can be contacted at: RMP Reporting Center, Post Office Box 10162, Fairfax, VA 22038, Telephone: (703) 227-7650.
f. Any required reports to be sent to the National Response Center, should be sent to: U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, 1200 Pennsylvania Ave. NW, Mail Code: US EPA (5101T), Washington, DC 20460, Telephone: (800) 424-8802.
g. Send the required annual registration fee using approved forms made payable to: Cashier, Division of Emergency Management, State Emergency Response Commission, 2555 Shumard Oak Boulevard, Tallahassee, FL 32399-2149

[Part IV, Chapter 252, F.S.; and, Rule 9G-21, F.A.C.]

Other Requirements

FW9. Unregulated Emissions Units and/or Activities. Appendix U, List of Unregulated Emissions Units and/or Activities, is a part of this permit.
[Rule 62-213.440(1), F.A.C.]

FW10. Insignificant Emissions Units and/or Activities. Appendix I, 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.]

FW11. Compliance Plan. Based on the application, Compliance Plan (Appendix CP) is a part of this permit.
[Rule 62-213.440(2), F.A.C.]

FW12. 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.]

FW13. The permittee shall submit all compliance related notifications and reports required of this permit to the Department's Southeast District Office.

Department of Environmental Protection
Southeast District Office
3301 Gun Club Road, MSC 7210-1
West Palm Beach, Florida, 33406
Telephone: 561-681-6600

Sed.air@dep.state.fl.us

FW14. 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

Subsection A. This section addresses the following emissions units.

E.U. ID No.	Brief Description
007	1.2 MW Digester Gas Electric Cogenerator (Superior #1)
009	1.2 MW Digester Gas Electric Cogenerator (Superior #2)

These emissions units are existing digester gas electric cogenerators manufactured by Cooper Superior (Model 16GTLB) and are equipped with a pre-combustion chamber for a lean-burn low combustion to reduce nitrogen oxides (NOx) emissions. These units produce electricity for in-plant use and generate waste heat for heating anaerobic digesters. Commercial operation for the emissions units began on May 22, 1992.

{Permitting note: Two cogenerator engines (EU 010 and 011) were removed and replaced with newer engines (EU 021 and 022). A new Subsection C was created for the new engines due to the addition of 40 CFR Part 60 Subpart JJJJ and 40 CFR Part 63, Subpart ZZZZ requirements}

NESHAP APPLICABILITY

NESHAPS Subpart ZZZZ Applicability: The cogenerators are digester gas fueled Reciprocating Internal Combustion Engines (RICE) and shall comply with applicable provisions of 40 CFR 63, Subpart ZZZZ. Pursuant to Subpart ZZZZ, the cogenerators are considered existing non-emergency, non-black start 4 Stroke Lean Burn (4SLB) Spark Ignition (SI) engines operating at an area source of HAPS which combust landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis and therefore have operational, maintenance, and reporting requirements.

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

Emissions Limitations

A.1. The maximum allowable emission rates for NOx for units No. 007, 009, 021, and 022 shall not exceed 7.6 pounds per hour (lb/hr) each and 99.9 tons per year (TPY) combined.

[Rule 62-210.200, F.A.C., Definitions: Potential to-Emit, and 0250476-004-AC]

A.2. Visible emissions shall be less than 20 percent opacity.

[Rule 62-296.320, F.A.C.; and 0250476-004-AC]

A.3. In order to minimize excess emissions during startup/shutdown/malfunction these emissions units shall adhere to best operational practices. At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.

[Rule 62-210.700, F.A.C., 40 CFR 63.6605(b) and 0250476-004-AC]

Operational Limitations

A.4. The combined hours of operation for the units No. 007, 009, 021, and 022 shall not exceed 26,280 hours in any consecutive 12-month period.

[Rule 62-210.200, F.A.C., Definitions: Potential to-Emit, and 0250476-004-AC]

A.5. Only digester gas can be fired in the electric cogenerators units 007, 009, 021, and 022.

[Rule 62-210.200, F.A.C., Definitions: Potential to-Emit, and 0250476-004-AC]

A.6. You must 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.

[Rule 40 CFR 63.6625(e)(6)]

A.7. At all times the emissions units and after-treatment control device (if any) must be operated and maintained according to the manufacturer's emission-related written instructions or the approved 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.

[Rule 40 CFR 63.6605(b)]

A.8. Required Maintenance

a. Change oil and filter every 1,440 hours of operation or annually, whichever comes first;
b. Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first, and replace as necessary; and
c. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary

[Rule 40 CFR 63 Subpart ZZZZ Table 2d

Note:

i. Sources have the option to utilize an oil analysis program as described in § 63.6625(i) or (j) in order to extend the specified oil change requirement in Table 2d of this subpart.

<u>Test Methods and Compliance Procedures</u>

A.9. Compliance with the allowable emission limiting standards for NOx in A.1 shall be demonstrated via stack testing each federal fiscal year (Oct.1-Sept. 30), if applicable, by using EPA Method 7 or 7E, as described in 40 CFR 60, Appendix A, adopted by reference in Rule 62-204.800, F.A.C., and adopted in Rule 62-297.401, F.A.C.

[Rules 62-4.070(3), 62-204.800, 62-297.310, 62-297.401, F.A.C., and 0250476-004-AC]

A.10. Compliance with the visible emission limitation shall be determined each federal fiscal year (Oct.1-Sept.30) using EPA Method 9 contained in 40 CFR 60, Appendix A and adopted by reference in Rule 62-297, F.A.C. The minimum requirements for stationary point sources emission test procedures and reporting shall be in accordance with Rule 62-297, F.A.C. and 40 CFR 60 Appendix A.

[Rule 62-297, F.A.C., and 0250476-004-AC]

<u>Recordkeeping and Reporting Requirements</u>

A.11. All measurements, records, and other data required to be maintained by this facility shall be retained for at least five (5) years following the data on which such measurements, records, or data are recorded. These data shall be made available to the Department upon request.

[Rule 62-4.070(3), F.A.C., and 0250476-004-AC]

A.12. Two copies of the results of the emission tests for the pollutant listed in Condition A.1 for Units No. 7, 9, 10, and 11 shall be submitted within forty-five days of the last sampling run to the Southeast District office. All reports shall be in a format consistent with and shall include the information in accordance with Rule 62-297.310 (8), F.A.C.

[Rule 62-297.310(8), F.A.C., and 0250476-004-AC]

A.13. 40 CFR 63 Subpart A, General Provisions. Thes engines shall comply with all applicable requirements of 40 CFR 63 Subpart A, General Provisions, which have been adopted by reference in Rule 62-204.800(11)(d)1., F.A.C., except that the Secretary is not the Administrator for purposes of 40 CFR 63.5(e), 40 CFR 63.5(f), 40 CFR 63.6(g), 40 CFR 63.6(h)(9), 40 CFR 63.6(j), 40 CFR 63.13, and 40 CFR 63.14. This engine shall comply with the applicable portions of Appendix 40 NESHAP Subpart A included with this permit, as specified below.

Table 8 to Subpart ZZZZ of Part 63—Applicability of General Provisions to Subpart ZZZZ.

Per 40 CFR 60.4246, the permittee must comply with the following applicable General Provisions.

General provisions citation	Subject of citation	Applies to subpart	Explanation
§ 63.1	General applicability of the General Provisions	Yes.	
§ 63.2	Definitions	Yes	Additional terms defined in § 63.6675.
§ 63.3	Units and abbreviations	Yes.	
§ 63.4	Prohibited activities and circumvention	Yes.	
§ 63.5	Construction and reconstruction	Yes.	
§ 63.6(a)	Applicability	Yes.	
§ 63.6(b)(1)-(4)	Compliance dates for new and reconstructed sources	Yes.	
§ 63.6(b)(5)	Notification	Yes.	
§ 63.6(b)(7)	Compliance dates for new and reconstructed area sources that become major sources	Yes.	
§ 63.6(c)(1)-(2)	Compliance dates for existing sources	Yes.	

General provisions citation	Subject of citation	Applies to subpart	Explanation
§ 63.6(c)(5)	Compliance dates for existing area sources that become major sources	Yes.	
§ 63.6(f)(2)	Methods for determining compliance	Yes.	
§ 63.6(f)(3)	Finding of compliance	Yes.	
§ 63.6(g)(1)-(3)	Use of alternate standard	Yes.	
§ 63.6(i)	Compliance extension procedures and criteria	Yes.	
§ 63.6(j)	Presidential compliance exemption	Yes.	
§ 63.7(a)(1)-(2)	Performance test dates	Yes	Subpart ZZZZ contains performance test dates at §§ 63.6610, 63.6611, and 63.6612.
§ 63.7(a)(3)	CAA section 114 authority	Yes.	
§ 63.7(b)(1)	Notification of performance test	Yes	Except that § 63.7(b)(1) only applies as specified in § 63.6645.
§ 63.7(b)(2)	Notification of rescheduling	Yes	Except that § 63.7(b)(2) only applies as specified in § 63.6645.
§ 63.7(c)	Quality assurance/test plan	Yes	Except that § 63.7(c) only applies as specified in § 63.6645.
§ 63.7(d)	Testing facilities	Yes.	
§ 63.7(e)(2)	Conduct of performance tests and reduction of data	Yes	Subpart ZZZZ specifies test methods at § 63.6620.
§ 63.7(e)(3)	Test run duration	Yes.	
§ 63.7(e)(4)	Administrator may require other testing under section 114 of the CAA	Yes.	
§ 63.7(f)	Alternative test method provisions	Yes.	
§ 63.7(g)	Performance test data analysis, recordkeeping, and reporting	Yes.	
§ 63.7(h)	Waiver of tests	Yes.	
§ 63.8(a)(1)	Applicability of monitoring requirements	Yes	Subpart ZZZZ contains specific requirements for monitoring at § 63.6625.
§ 63.8(a)(2)	Performance specifications	Yes.	
§ 63.8(b)(1)	Monitoring	Yes.	

General provisions citation	Subject of citation	Applies to subpart	Explanation
§ 63.8(b)(2)-(3)	Multiple effluents and multiple monitoring systems	Yes.	
§ 63.8(c)(1)	Monitoring system operation and maintenance	Yes.	
§ 63.8(c)(1)(ii)	SSM not in Startup Shutdown Malfunction Plan	Yes.	
§ 63.8(c)(2)-(3)	Monitoring system installation	Yes.	
§ 63.8(c)(4)	Continuous monitoring system (CMS) requirements	Yes	Except that subpart ZZZZ does not require Continuous Opacity Monitoring System (COMS).
§ 63.8(c)(6)-(8)	CMS requirements	Yes	Except that subpart ZZZZ does not require COMS.
§ 63.8(d)	CMS quality control	Yes.	
§ 63.8(e)	CMS performance evaluation	Yes	Except for § 63.8(e)(5)(ii), which applies to COMS.
		Except that § 63.8(e) only applies as specified in § 63.6645.	
§ 63.8(f)(1)-(5)	Alternative monitoring method	Yes	Except that § 63.8(f)(4) only applies as specified in § 63.6645.
§ 63.8(f)(6)	Alternative to relative accuracy test	Yes	Except that § 63.8(f)(6) only applies as specified in § 63.6645.
§ 63.8(g)	Data reduction	Yes	Except that provisions for COMS are not applicable. Averaging periods for demonstrating compliance are specified at §§ 63.6635 and 63.6640.
§ 63.9(a)	Applicability and State delegation of notification requirements	Yes.	
§ 63.9(b)(1)-(5)	Initial notifications	Yes	Except that § 63.9(b)(3) is reserved.
		Except that § 63.9(b) only applies as specified in § 63.6645.	

General provisions citation	Subject of citation	Applies to subpart	Explanation
§ 63.9(c)	Request for compliance extension	Yes	Except that § 63.9(c) only applies as specified in § 63.6645.
§ 63.9(d)	Notification of special compliance requirements for new sources	Yes	Except that § 63.9(d) only applies as specified in § 63.6645.
§ 63.9(e)	Notification of performance test	Yes	Except that § 63.9(e) only applies as specified in § 63.6645.
§ 63.9(g)(1)	Notification of performance evaluation	Yes	Except that § 63.9(g) only applies as specified in § 63.6645.
§ 63.9(g)(3)	Notification that criterion for alternative to RATA is exceeded	Yes	If alternative is in use.
		Except that § 63.9(g) only applies as specified in § 63.6645.	
§ 63.9(h)(1)-(6)	Notification of compliance status	Yes	Except that notifications for sources using a CEMS are due 30 days after completion of performance evaluations. § 63.9(h)(4) is reserved.
			Except that § 63.9(h) only applies as specified in § 63.6645.
§ 63.9(i)	Adjustment of submittal deadlines	Yes.	
§ 63.9(j)	Change in previous information	Yes.	
§ 63.10(a)	Administrative provisions for recordkeeping/reporting	Yes.	
§ 63.10(b)(1)	Record retention	Yes	Except that the most recent 2 years of data do not have to be retained on site.
§ 63.10(b)(2)(vi)-(xi)	Records	Yes.	
§ 63.10(b)(2)(xii)	Record when under waiver	Yes.	
§ 63.10(b)(2)(xiii)	Records when using alternative to RATA	Yes	For CO standard if using RATA alternative.
§ 63.10(b)(2)(xiv)	Records of supporting documentation	Yes.	

General provisions citation	Subject of citation	Applies to subpart	Explanation
§ 63.10(b)(3)	Records of applicability determination	Yes.	
§ 63.10(c)	Additional records for sources using CEMS	Yes	Except that § 63.10(c)(2)-(4) and (9) are reserved.
§ 63.10(d)(1)	General reporting requirements	Yes.	
§ 63.10(d)(2)	Report of performance test results	Yes.	
§ 63.10(d)(4)	Progress reports	Yes.	
§ 63.10(e)(1) and (2)(i)	Additional CMS Reports	Yes.	
§ 63.10(e)(3)	Excess emission and parameter exceedences reports	Yes.	Except that § 63.10(e)(3)(i)(C) is reserved.
§ 63.10(f)	Waiver for recordkeeping/reporting	Yes.	
§ 63.12	State authority and delegations	Yes.	
§ 63.13	Addresses	Yes.	
§ 63.14	Incorporation by reference	Yes.	
§ 63.15	Availability of information	Yes.	

Subsection B. This section addresses the following emissions units.

E.U. ID No.	Brief Description
013	2.5 MW Diesel Engine Generator model EMD 20-645E4B (#1)
014	2.5 MW Diesel Engine Generator model EMD 20-645E4B (#2)
015	2.5 MW Diesel Engine Generator model EMD 20-645E4B (#3)
019	2.865 MW Diesel Engine Generator model 20-645F4BEMD (# 4)
020	2.865 MW Diesel Engine Generator model 20-645F4BEMD (# 5)

Emissions Units 013, 014, and 015 each consist of a 3,600 hp diesel-fueled internal combustion prime mover manufactured by Electro-Motive Division (model EMD 20-645E4B) each coupled to a 2,500 kW (2.5MW) electrical generator. Emissions units 019 and 020 each consist of a 4,000 hp diesel-fueled internal combustion prime mover manufactured by Electro-Motive Division (model 20-645F4B) each coupled to a 2,865 kW (2.865 MW) electrical generator.

NESHAP APPLICABILITY

NESHAPS Subpart ZZZZ Applicability: These generators are diesel fueled Reciprocating Internal Combustion Engines (RICE) and shall comply with applicable provisions of 40 CFR 63, Subpart ZZZZ. Pursuant to Subpart ZZZZ, the generators are considered existing non-emergency, non-black start Compression Ignition (CI) engines greater than 500 hp with a displacement of less than 30 liters per cylinder operating at an area source of HAPS and therefore have emissions and operational limitations, maintenance, testing and reporting requirements.

{Permitting note: The facility has an agreement with the local utility, that the facility provide peak shaving or non-emergency demand response, in exchange for financial incentives to the facility. Due to this agreement, the generators are not considered emergency generators under Federal Rule 40 CFR 63 Subpart ZZZZ.}

EMISSION LIMITATIONS

B.1. NOx Emissions: Emission of NOx from each of the model 20-645E4B engine (i.e., emission units 013, 014 and 015) shall not exceed 2.15 lb/MMBtu. Emission of NOx from each of the model 20-645F4B engine (i.e., emission units 019 and 020) shall not exceed 2.75 lb/MMBtu. Emission of NOx is limited to 137.6 tons per year combined.
[Rule 62-212.400(6), F.A.C.]

B.2. Visible emissions shall be less than 20% opacity.
[Rule 62-296.320, F.A.C., and 0250476-004-AC]

B.3. Facility shall install oxidation catalysts on the generators with Continuous Parameter Monitoring Sytems (CPMS) to monitor the catalyst inlet temperatures, and complete initial compliance testing according to the schedule in the compliance plan in Appendix CP. If the catalyst is changed, permittee must reestablish the values of the operating parameters measured during the initial performance test. When re-establishing the values of the operating parameters, the permittee must also conduct a performance test to demonstrate that the emissions unit is meeting the required emission limitation applicable to the stationary RICE.
[Rule 40 CFR 63.6603, 40 CFR 63.6640]

B.4. CO Emissions: Oxidative Catalysts shall limit the concentration of the CO in engine exhaust to 23 ppmvd at 15 percent O2 or reduce the CO emissions by 70 percent or more.

[Rule 40 CFR 63.6603]

B.5. In order to minimize excess emissions during startup/shutdown/malfunction, these emissions units shall adhere to best operational practices.
[Rule 62-210.700, F.A.C.]

OPERATIONAL LIMITATIONS

B.6. The emission units are allowed to operate continuously (8760 hours/year).

[Rule 62-210.200, F.A.C., Definitions: Potential-to-Emit].

B.7. Only No. 2 fuel oil can be fired in the diesel generators. The maximum sulfur content of the No. 2 fuel oil shall not exceed 0.05 percent, by weight.

[Rule 62-210.200, F.A.C., Definitions: Potential-to-Emit].

B.8. The maximum consumption of No. 2 fuel oil allowed to be burned in Units No. 013, 014, 015, 019, and 020 combined shall not exceed 725,000 gallons of diesel fuel in any consecutive 12-month period.
[Rule 62-210.200, F.A.C., Definitions: Potential-to-Emit]

{Permitting note: At 100% engine load, each model 20-645E4B engine has a fuel consumption of approximately 196.4 gallons per hour, and each model 20-645F4B engine has a fuel consumption of approximately 197.1 gallons per hour, based on a heat input of 27.1 MMBtu/hr and 27.2 MMBtu/hr, respectively, and a 36-degree API diesel fuel higher heating value of 19,640 Btu/lb. and density of 7.034 lb. /gal.}

B.9. At all times operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.
[Rule 40 CFR 63.6605(b)]

B.10. If the engines are not equipped with a closed crankcase ventilation system, the operator must comply with either paragraph a) or b) below. Owners and operators must follow the manufacturer's specified maintenance requirements for operating and maintaining the open or closed crankcase ventilation systems and replacing the crankcase filters, or can request the Administrator to approve different maintenance requirements that are as protective as manufacturer requirements.

a. Install a closed crankcase ventilation system that prevents crankcase emissions from being emitted to the atmosphere, or
b. Install an open crankcase filtration emission control system that reduces emissions from the crankcase by filtering the exhaust stream to remove oil mist, particulates and metals

[Rule 40 CFR 63.6625(g)]

B.11. <u>Operation and Maintenance of Oxidative Catalyst</u>:

a. maintain your catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water from the pressure drop across the catalyst that was measured during the initial performance test; and
b. maintain the temperature of your stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 450 °F and less than or equal to 1350 °F.[1]

Note: [1] Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.8(f) for a different temperature range.
[Rule 40 CFR 63.6603]

B.12. Operator must 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, after which time the emission standards shall apply.
[Rule 40 CFR 63.6625(h)]

TEST METHODS AND PROCEDURES

B.13. Compliance with the allowable emission limiting standards for NOx in B.1 shall be demonstrated each federal fiscal year (Oct.1-Sept. 30) if applicable, by using EPA Method 7 or 7E, as described in 40 CFR 60, Appendix A, adopted by reference in Rule 62-204.800, F.A.C., and adopted in Rule 62-297.401, F.A.C.
[Rules 62-4.070(3), 62-204.800, 62-297.310, and 62-297.401, F.A.C.]

B.14. The fuel oil shall be monitored for the sulfur content using ASTM D4294 Method (or equivalent), or by maintaining records of fuel oil sulfur content certifications, as provided by the fuel supplier. For each load of fuel oil delivered to the facility, the permittee shall either:
a. Obtain a copy of the fuel analysis from the supplier. Methods for determining the fuel sulfur content of the distillate oil shall be ASTM Method D 129-91, D 1552-95, D 2622-94, D 4294-98 or comparable Department approved method. Records shall specify the test method used. Or
b. Collect a fuel sample to be sent for laboratory analysis based on one of the following method: ASTM Method D 129-91, D 1552-95, D 2622-94, D 4294-98 or comparable Department approved method. Or
c. Records from the fuel supplier that indicates the fuel delivered is Low Sulfur No. 2 Diesel fuel oil by ASTM Method 975-98b, or current version. Specification for Diesel Fuel Oils provides for this classification of diesel fuel oils as having no more than 0.05 percent sulfur content by weight.
[Rule 62-297.440, F.A.C., and 0250476-004-AC]

B.15. The permittee shall maintain daily records of fuel oil consumption for the emission unit.
[Rule 62-210.200, F.A.C., and 0250476-004-AC]

B.16. Compliance with the visible emission limitation shall be determined each federal fiscal year (Oct.1-Sept.30) using EPA Method 9 contained in 40 CFR 60, Appendix A and adopted by reference in Rule 62-297, F.A.C. The minimum requirements for stationary point sources emission test procedures and reporting shall be in accordance with Rule 62-297, F.A.C. and 40 CFR 60 Appendix A.
[Rule 62-297, F.A.C., and 0250476-004-AC]

B.17. Compliance with the allowable emission limiting standards for CO in B.4 shall be demonstrated according to the following requirements and of the requirements in Table 4 to Subpart ZZZZ of 40 CFR Part 63 below.

a. Each performance test must be conducted according to the requirements that this subpart specifies in Table 4 to this subpart. If you own or operate a non-operational stationary RICE that is subject to performance testing, you do not need to start up the engine solely to conduct the performance test. Owners and operators of a non-operational engine can conduct the performance test when the engine is started up again.

b. You must conduct three separate test runs for each performance test required in this section, as specified in § 63.7(e)(3). Each test run must last at least 1 hour, unless otherwise specified in this subpart.

c.

(1) You must use Equation 1 of this section to determine compliance with the percent reduction requirement:

$$\frac{C_i - C_o}{C_i} \times 100 = R \quad (Eq.\ 1)$$

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Where:

C_i = concentration of carbon monoxide (CO), total hydrocarbons (THC), or formaldehyde at the control device inlet,

C_o = concentration of CO, THC, or formaldehyde at the control device outlet, and

R = percent reduction of CO, THC, or formaldehyde emissions.

(2) You must normalize the CO, THC, or formaldehyde concentrations at the inlet and outlet of the control device to a dry basis and to 15 percent oxygen, or an equivalent percent carbon dioxide (CO_2). If pollutant concentrations are to be corrected to 15 percent oxygen and CO_2 concentration is measured in lieu of oxygen concentration measurement, a CO_2 correction factor is needed. Calculate the CO_2 correction factor as described in paragraphs (e)(2)(i) through (iii) of this section.

(i) Calculate the fuel-specific F_o value for the fuel burned during the test using values obtained from Method 19, Section 5.2, and the following equation:

$$F_o = \frac{0.209\ F_d}{F_c} \quad (Eq.\ 2)$$

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Where:

F_o = Fuel factor based on the ratio of oxygen volume to the ultimate CO_2 volume produced by the fuel at zero percent excess air.

0.209 = Fraction of air that is oxygen, percent/100.

F_d = Ratio of the volume of dry effluent gas to the gross calorific value of the fuel from Method 19, dsm^3 /J (dscf/10^6 Btu).

F_c = Ratio of the volume of CO_2 produced to the gross calorific value of the fuel from Method 19, dsm^3 /J (dscf/10^6 Btu)

(ii) Calculate the CO2 correction factor for correcting measurement data to 15 percent O2 , as follows:

$$X_{CO2} = \frac{5.9}{F_o} \quad (Eq.\ 3)$$

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Where:

X_{CO2} = CO_2 correction factor, percent.

5.9 = 20.9 percent O_2 —15 percent O_2 , the defined O_2 correction value, percent.

(iii) Calculate the CO, THC, and formaldehyde gas concentrations adjusted to 15 percent O2 using CO2 as follows:

$$C_{adj} = C_d \frac{X_{CO2}}{\%CO_2} \quad (Eq.4)$$

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Where:

C_{adj} = Calculated concentration of CO, THC, or formaldehyde adjusted to 15 percent O_2.

C_d = Measured concentration of CO, THC, or formaldehyde, uncorrected.

X_{CO2} = CO_2 correction factor, percent.

%CO_2 = Measured CO_2 concentration measured, dry basis, percent.

d. The engine percent load during a performance test must be determined by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load in a specific application. A written report of the average percent load determination must be included in the notification of compliance status. The following information must be included in the written report: the engine model number, the engine manufacturer, the year of purchase, the manufacturer's site-rated brake horsepower, the ambient temperature, pressure, and humidity during the performance test, and all assumptions that were made to estimate or calculate percent load during the performance test must be clearly explained. If measurement devices such as flow meters, kilowatt meters, beta analyzers, stain gauges, etc. are used, the model number of the measurement device, and an estimate of its accurate in percentage of true value must be provided.

Table 4 to Subpart ZZZZ of Part 63—Requirements for Performance Tests

Complying with the requirement to . . .	You must . . .	Using . . .	According to the following requirements . . .
a. reduce CO emissions	i. Measure the O_2at the inlet and outlet of the control device; and	(1) Method 3 or 3A or 3B of 40 CFR part 60, appendix A, or ASTM Method D6522-00 (Reapproved 2005).[a c]	(a) Measurements to determine O_2must be made at the same time as the measurements for CO concentration.
	ii. Measure the CO at the inlet and the outlet of the control device	(1) ASTM D6522-00 (Reapproved 2005) [a b c]or Method 10 of 40 CFR part 60, appendix A	(a) The CO concentration must be at 15 percent O_2, dry basis.
a. limit the concentration of formaldehyde or CO in the	i. Select the sampling port location and the number of traverse points; and	(1) Method 1 or 1A of 40 CFR part 60, appendix A § 63.7(d)(1)(i)	(a) if using a control device, the sampling site must be located at the outlet of the control device.

Complying with the requirement to . . .	You must . . .	Using . . .	According to the following requirements . . .
stationary RICE exhaust			
	ii. Determine the O_2concentration of the stationary RICE exhaust at the sampling port location; and	(1) Method 3 or 3A or 3B of 40 CFR part 60, appendix A, or ASTM Method D6522-00 (Reapproved 2005).[a]	(a) measurements to determine O_2concentration must be made at the same time and location as the measurements for formaldehyde or CO concentration.
	iii. Measure moisture content of the stationary RICE exhaust at the sampling port location; and	(1) Method 4 of 40 CFR part 60, appendix A, or Test Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348-03.[a]	(a) measurements to determine moisture content must be made at the same time and location as the measurements for formaldehyde or CO concentration.
	iv. Measure formaldehyde at the exhaust of the stationary RICE; or	(1) Method 320 or 323 of 40 CFR part 63, appendix A; or ASTM D6348-03,[a]provided in ASTM D6348-03 Annex A5 (Analyte Spiking Technique), the percent R must be greater than or equal to 70 and less than or equal to 130	(a) Formaldehyde concentration must be at 15 percent O_2, dry basis. Results of this test consist of the average of the three 1-hour or longer runs.
	v. measure CO at the exhaust of the stationary RICE.	(1) Method 10 of 40 CFR part 60, appendix A, ASTM Method D6522-00 (2005),[a] [c]Method 320 of 40 CFR part 63, appendix A, or ASTM D6348-03.[a]	(a) CO concentration must be at 15 percent O_2, dry basis. Results of this test consist of the average of the three 1-hour or longer runs.

[a] Incorporated by reference, see 40 CFR 63.14. You may also obtain copies from University Microfilms International, 300 North Zeeb Road, Ann Arbor, MI 48106.

[b] You may also use Method 320 of 40 CFR part 63, appendix A, or ASTM D6348-03.

[c] ASTM-D6522-00 (2005) may be used to test both CI and SI stationary RICE.

COMPLIANCE REQUIREMENTS

B.18. Maintenance Plan: The permittee 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. [40 CFR 60.4243]

B.19. Continuous Parameter Monitoring System (CPMS) and Monitoring Plan:

a. You must prepare a site-specific monitoring plan that addresses the monitoring system design, data collection, and the quality assurance and quality control elements outlined in paragraphs (i) through (v) of this section and in § 63.8(d). As specified in § 63.8(f)(4), you may request approval of monitoring system quality assurance and quality control procedures alternative to those specified in paragraphs (a) through (e) of this section in your site-specific monitoring plan.

   (i) The performance criteria and design specifications for the monitoring system equipment, including the sample interface, detector signal analyzer, and data acquisition and calculations;
   (ii) Sampling interface (e.g., thermocouple) location such that the monitoring system will provide representative measurements;
   (iii) Equipment performance evaluations, system accuracy audits, or other audit procedures;
   (iv) Ongoing operation and maintenance procedures in accordance with provisions in § 63.8(c)(1)(ii) and (c)(3); and
   (v) Ongoing reporting and recordkeeping procedures in accordance with provisions in § 63.10(c), (e)(1), and (e)(2)(i).

b. You must install, operate, and maintain each CPMS in continuous operation according to the procedures in your site-specific monitoring plan.

c. The CPMS must collect data at least once every 15 minutes (see also § 63.6635).

d. For a CPMS for measuring temperature range, the temperature sensor must have a minimum tolerance of 2.8 degrees Celsius (5 degrees Fahrenheit) or 1 percent of the measurement range, whichever is larger.

e. You must conduct the CPMS equipment performance evaluation, system accuracy audits, or other audit procedures specified in your site-specific monitoring plan at least annually.

f. You must conduct a performance evaluation of each CPMS in accordance with your site-specific monitoring plan.

B.20. Initial NESHAP Performance Test: Operator shall conduct initial NESHAP Compliance Testing according to the schedule found in the compliance plan (Appendix CP). Operator shall demonstrate that:

a. The average reduction of emissions of CO determined from the initial performance test achieves the required CO percent reduction in Condition B.4; or The average CO concentration determined from the initial performance test is less than or equal to the CO emission limitation in B.4; and
b. The operator has installed a CPMS to continuously monitor catalyst inlet temperature according to the requirements in § 63.6625(b); and
c. The operator has recorded the catalyst pressure drop and catalyst inlet temperature during the initial performance test.

B.21. Subsequent Performance Tests: The permittee must conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance.

B.22. Continuous Compliance: The permittee must demonstrate continuous compliance by:
a. Collecting the catalyst inlet temperature data according to 40 CFR b3.6625(b) and
b. Reducing these data to 4-hour rolling averages; and
c. Maintaining the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature; and
d. Measuring the pressure drop across the catalyst once per month and demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test.

RECORDKEEPING AND REPORTING REQUIREMENTS

B.23. All measurements, records, and other data required to be maintained by this facility shall be retained for at least five (5) years following the data on which such measurements, records, or data are recorded. These data shall be made available to the Department upon request.
[Rule 62-4.070(3), F.A.C., and 0250476-004-AC]

B.24. Results of the emission tests for the pollutant listed in Condition B.1 for Units No. 13, 14, 15, 19 and 20 shall be submitted within forty-five days of the last sampling run to the Southeast District office. All reports shall be in a format consistent with and shall include the information in accordance with Rule 62-297.310 (8), F.A.C.
[Rule 62-297.310(8), F.A.C., and 0250476-004-AC]

B.25. 40 CFR 63 Subpart A, General Provisions. This engine shall comply with all applicable requirements of 40 CFR 63 Subpart A, General Provisions, which have been adopted by reference in Rule 62-204.800(11)(d)1., F.A.C., except that the Secretary is not the Administrator for purposes of 40 CFR 63.5(e), 40 CFR 63.5(f), 40 CFR 63.6(g), 40 CFR 63.6(h)(9), 40 CFR 63.6(j), 40 CFR 63.13, and 40 CFR 63.14. This engine shall comply with the applicable portions of Appendix 40 NESHAP Subpart A included with this permit, as specified in Condition A.13.

Subsection C. This section addresses the following emissions units.

E.U. ID No.	Brief Description
021	1.2 MW Digester Gas Electric Cogenerator Model 16GTLD (New)
022	1.2 MW Digester Gas Electric Cogenerator Model 16GTLD (New)

These emissions units (EU) are 1.2 megawatt (MW) Superior Model 16GTLD engine driven co-generator units. The engines are subject to the requirements of 40 CFR Part 60 Subpart JJJJ and 40 CFR Part 63, Subpart ZZZZ, and are classified as new, non-emergency spark ignition (SI) four-stroke lean burn (4SLB) engines, by the subparts. These emission units will replaced (2) (EU 010 and EU 011) of four (4) existing 1.2 MW digester gas-fired co-generators that are listed individually but regulated collectively. These units generate heat for anaerobic digesters and produce electricity for in-plant use. The units are equipped with lean burn combustion technology to reduce nitrogen oxides (NO_x) emissions.

The following table provides important details for these emissions units:

E.U. ID No.	Engine Brake HP	Date of Construction	Model Year	Primary Fuel	Type of Engine	Displacement liters/cylinder (l/c)	Serial #	Date of last mod. or reconst.
021 022	1.2 MW 1760 HP	2013	2013	Digester Gas	Non-Emergency	13.519	Unknown	N/A

These engines are subject to 40 CFR Part 60 Subpart JJJJ – *Standards of Performance for Stationary Spark Ignition Internal Combustion Engines*. These engines are also subject to the requirements of 40 CFR 63, Subpart ZZZZ, *National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE)*. However, 40 CFR 63.6590(c) and (1) states: (c) *Stationary RICE subject to Regulations under 40 CFR Part 60.* An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under this part. (1) A new or reconstructed stationary RICE located at an area source. Therefore for this project, compliance with subpart JJJJ satisfies subpart ZZZZ requirements.

EQUIPMENT

C.1. Reciprocating Internal Combustion Engines: The permittee is authorized to install two 1.2 megawatt Superior Model 16GTLD engine driven co-generator units. These emission units replaced two (2) (EU 010) and (EU 011) of four (4) existing 1.2 MW digester gas-fired co-generators that are listed individually but regulated collectively. [Application No. 0250476-011-AC]

PERFORMANCE RESTRICTIONS

C.2. Authorized Fuel: The emissions unit shall be fired with digester gas (biogas), only. [Application No. 0250476-011-AC and Rule 62-210.200(PTE), F.A.C.]

C.3. Hours of Operation: The combined hours of operation for the units No. 007, 009, 021, and 022 shall not exceed 26,280 hours in any consecutive 12-month period. [Application No. 0250476-011-AC and Rule 62-210.200(PTE), F.A.C.]

EMISSIONS STANDARDS

For the purposes of 40 CFR Part 60 Subpart JJJJ – *Standards of Performance for Stationary Spark Ignition Internal Combustion Engines*, replacement Cogeneration units #3 and #4 (E.U. 021 and 022) are considered new sources and must comply with new standards of performance in Subpart JJJJ Section 60.4233(e) and (f)(5) for emission standards found in Table 1 to Subpart JJJJ of 40 CFR Part 60.

Note that a footnote to Table 1 states that owners and operators of stationary non-certified SI engines may choose to comply with the emission standards in units of either g/HP-hr or ppmvd at 15 percent O_2.

C.4. NO_X Emissions: Nitrogen oxides (NO_X) emissions shall not exceed 2.0 grams per horsepower hour (g/HP-hr) or 150 parts per million by volume dry (ppmvd) @15% O_2. [40 CFR 60.4233; Table 1 to Subpart JJJJ of Part 60 CFR]

C.5. CO Emissions: Carbon monoxide (CO) emissions shall not exceed 5.0 g/HP-hr or 610 ppmvd @15% O_2. [40 CFR 60.4233; Table 1 to Subpart JJJJ of Part 60 CFR]

C.6. VOC Emissions: Volatile organic compounds (VOC) emissions shall not exceed 1.0 g/HP-hr or 80 ppmvd @15% O_2. [40 CFR 60.4233; Table 1 to Subpart JJJJ of Part 60 CFR]

COMPLIANCE REQUIREMENTS

C.7. Maintenance Plan: The permittee 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. [40 CFR 60.4243]

C.8. Initial and Subsequent Performance Tests. The permittee must conduct an initial performance test within 1 year of engine startup and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance. [40 CFR 60.4243]

TESTING REQUIREMENTS

C.9. Compliance Test Procedures: Owners and operators of stationary SI ICE who conduct performance tests must follow the procedures below.

a. Each performance test must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and according to the requirements in 40 CFR 60.8 and under the specific conditions that are specified by Table 2 of 40 CFR 60 Subpart JJJJ.

b. Performance tests during periods of startup, shutdown, or malfunction are not allowed, as specified in 40 CFR 60.8(c). If the stationary SI internal combustion engine is non-operational, it is not necessary to startup the engine solely to conduct a performance test; however, the performance test must be conducted immediately upon startup of the engine.

c. Three separate test runs must be conducted for each performance test required, as specified in 40 CFR 60.8(f). Each test run must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and last at least 1 hour.

d. To determine compliance with the NO_X mass per unit output emission limitation, the concentration of NO_X in the engine exhaust should be converted using Equation 1, below:

$$ER = \frac{C_d \times 1.912 \times 10^{-3} \times Q \times T}{HP - hr} \qquad \text{(Eq. 1)}$$

Where:

ER = Emission rate of NO_X in g/HP-hr.

C_d = Measured NO_X concentration in parts per million by volume (ppmv).

1.912×10^{-3} = Conversion constant for ppm NO_X to grams per standard cubic meter at 20 degrees Celsius.

Q = Stack gas volumetric flow rate, in standard cubic meter per hour, dry basis.

T = Time of test run, in hours.

HP-hr = Brake work of the engine, horsepower-hour (HP-hr).

e. To determine compliance with the CO mass per unit output emission limitation, the concentration of CO in the engine exhaust should be converted using Equation 2, below:

$$ER = \frac{C_d \times 1.164 \times 10^{-3} \times Q \times T}{HP - hr} \qquad \text{(Eq. 2)}$$

Where:

ER = Emission rate of CO in g/HP-hr.

Cd = Measured CO concentration in ppmv.

1.164×10^{-3} = Conversion constant for ppm CO to grams per standard cubic meter at 20 degrees Celsius.

Q = Stack gas volumetric flow rate, in standard cubic meters per hour, dry basis.

T = Time of test run, in hours.

HP-hr = Brake work of the engine, in HP-hr.

f. When calculating emissions of VOC, emissions of formaldehyde should not be included. To determine compliance with the VOC mass per unit output emission limitation, the concentration of VOC in the engine exhaust should be converted using Equation 3, below:

$$ER = \frac{C_d \times 1.833 \times 10^{-3} \times Q \times T}{HP - hr} \qquad \text{(Eq. 3)}$$

Where:

ER = Emission rate of VOC in g/HP-hr.

Cd = VOC concentration measured as propane in ppmv.

1.833×10^{-3} = Conversion constant for ppm VOC measured as propane, to grams per standard cubic meter at 20 degrees Celsius.

Q = Stack gas volumetric flow rate, in standard cubic meters per hour, dry basis.

T = Time of test run, in hours.

HP-hr = Brake work of the engine, in HP-hr.

g. If the owner/operator chooses to measure VOC emissions using either Method 18 of 40 CFR part 60, appendix A, or Method 320 of 40 CFR part 63, appendix A, then it has the option of correcting the measured VOC emissions to account for the potential differences in measured values between these methods and Method 25A. The results from Method 18 and Method 320 can be corrected for response factor differences using Equations 4 and 5, below. The corrected VOC concentration can then be placed on a propane basis using Equation 6, below.

$$RF_i = \frac{C_{Mi}}{C_{Ai}} \qquad \text{(Eq. 4)}$$

Where:

RFi = Response factor of compound i when measured with EPA Method 25A.

$C_M i$ = Measured concentration of compound i in ppmv as carbon.

$C_A i$ = True concentration of compound i in ppmv as carbon.

$$C_{icorr} = RF_i \times C_{imeas} \qquad \text{(Eq. 5)}$$

Where:

Ci_{corr} = Concentration of compound i corrected to the value that would have been measured by EPA Method 25A, ppmv as carbon.

Ci_{meas} = Concentration of compound i measured by EPA Method 320, ppmv as carbon.

$$C_{Peq} = 0.6098 \times C_{icorr} \qquad \text{(Eq. 6)}$$

Where:

CPeq = Concentration of compound i in mg of propane equivalent per DSCM.

[40 CFR 60.4244]

C.10. Table 2 to Subpart JJJJ of Part 60—Requirements for Performance Tests:

For each	Complying with the requirement to	The permittee must	Using	According to the following requirements
1. Stationary SI internal combustion engine demonstrating compliance according to 40 CFR 60.4244.	a. limit the concentration of NO_X in the stationary SI internal combustion engine exhaust.	i. Select the sampling port location and the number of traverse points;	(1) Method 1 or 1A of 40 CFR part 60, appendix A or ASTM Method D6522–00(2005)[a].	(a) If using a control device, the sampling site must be located at the outlet of the control device.
		(ii. Determine the O_2concentration of the stationary internal combustion engine exhaust at the sampling port location;	(2) Method 3, 3A, or 3B[b]of 40 CFR part 60, appendix A or ASTM Method D6522–00(2005)[a].	(b) Measurements to determine O_2 concentration must be made at the same time as the measurements for NO_X concentration.
		iii. Determine the exhaust flowrate of the stationary internal combustion	(3) Method 2 or 19 of 40 CFR Part 60.	

		engine exhaust;		
		iv. If necessary, measure moisture content of the stationary internal combustion engine exhaust at the sampling port location; and	4) Method 4 of 40 CFR part 60, appendix A, Method 320 of 40 CFR part 63, appendix A, or ASTM D6348–03 (incorporated by reference, see 40 CFR 60.17).	(c) Measurements to determine moisture must be made at the same time as the measurement for NO_X concentration.
		v. Measure NO_X at the exhaust of the stationary internal combustion engine.	(5) Method 7E of 40 CFR part 60, appendix A, Method D6522–00(2005)[a], Method 320 of 40 CFR part 63, appendix A, or ASTM D6348–03 (incorporated by reference, see §60.17).	(d) Results of this test consist of the average of the three 1-hour or longer runs.
	b. limit the concentration of CO in the stationary SI internal combustion engine exhaust.	i. Select the sampling port location and the number of traverse points;	(1) Method 1 or 1A of 40 CFR part 60, Appendix A.	(a) If using a control device, the sampling site must be located at the outlet of the control device.
		ii. Determine the O_2concentration of the stationary internal combustion engine exhaust at the sampling port location;	(2) Method 3, 3A, or 3Bb of 40 CFR part 60, Appendix A or ASTM Method D6522–00(2005)[a].	(b) Measurements to determine O_2concentration must be made at the same time as the measurements for CO concentration.
		iii. Determine the exhaust flowrate of the stationary internal combustion engine exhaust;	(3) Method 2 or 19 of 40 CFR part 60.	
		iv. If necessary, measure moisture content of the stationary internal combustion engine exhaust at the sampling port location; and	(4) Method 4 of 40 CFR part 60, appendix A, Method 320 of 40 CFR part 63, appendix A, or ASTM D6348–03 (incorporated by reference, see 40 CFR 60.17).	(c) Measurements to determine moisture must be made at the same time as the measurement for CO concentration.
		v. Measure CO at	(5) Method 10	(d) Results of this

		the exhaust of the stationary internal combustion engine.	of 40 CFR part 60, Appendix A, ASTM Method D6522–00(2005)[a], Method 320 of 40 CFR part 63, Appendix A, or ASTM D 6348–03 (incorporated by reference, see 40 CFR 60.17).	test consist of the average of the three 1-hour or longer runs.
	c. limit the concentration of VOC in the stationary SI internal combustion engine exhaust.	i. Select the sampling port location and the number of traverse points;	(1) Method 1 or 1A of 40 CFR part 60, Appendix A.	(a) If using a control device, the sampling site must be located at the outlet of the control device.
		ii. Determine the O_2concentration of the stationary internal combustion engine exhaust at the sampling port location;	(2) Method 3, 3A, or 3B[b]of 40 CFR part 60, Appendix A or ASTM Method D6522–00(2005)[a].	(b) Measurements to determine O_2concentration must be made at the same time as the measurements for VOC concentration.
		iii. Determine the exhaust flowrate of the stationary internal combustion engine exhaust;	(3) Method 2 or 19 of 40 CFR Part 60.	
		iv. If necessary, measure moisture content of the stationary internal combustion engine exhaust at the sampling port location; and	(4) Method 4 of 40 CFR part 60, Appendix A, Method 320 of 40 CFR part 63, Appendix A, or ASTM D6348–03 (incorporated by reference, see 40 CFR 60.17).	(c) Measurements to determine moisture must be made at the same time as the measurement for VOC concentration.
		v. Measure VOC at the exhaust of the stationary internal combustion engine.	(5) Methods 25A and 18 of 40 CFR part 60, appendix A, Method 25A with the use of a methane cutter as described in 40 CFR 1065.265, Method 18 or 40 CFR part 60, Appendix A,[cd]	(d) Results of this test consist of the average of the three 1-hour or longer runs.

			Method 320 of 40 CFR part 63, Appendix A, or ASTM D6348–03 (incorporated by reference, see §60.17).	

[a]ASTM D6522–00 is incorporated by reference; see 40 CFR 60.17. Also, the permittee may petition the Administrator for approval to use alternative methods for portable analyzer.

[b]The permittee may use ASME PTC 19.10–1981, Flue and Exhaust Gas Analyses, for measuring the O_2content of the exhaust gas as an alternative to EPA Method 3B.

[c]The permittee may use EPA Method 18 of 40 CFR part 60, Appendix A, provided that the permittee conduct an adequate presurvey test prior to the emissions test, such as the one described in OTM 11 on EPA's Web site (*http://www.epa.gov/ttn/emc/prelim/otm11.pdf*).

[d]The permittee may use ASTM D6420–99 (2004), Test Method for Determination of Gaseous Organic Compounds by Direct Interface Gas Chromatography/Mass Spectrometry as an alternative to EPA Method 18 for measuring total nonmethane organic.

C.11. Test Requirements: The permittee shall notify the Compliance Authority in writing at least 15 days prior to any required tests. Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit.
[Rule 62-297.310(7)(a)9, F.A.C.]

RECORDS AND REPORTS

C.12. Reporting and Recordkeeping: Owners or operators of stationary SI ICE must meet the following notification, reporting and recordkeeping requirements.

a. Owners and operators of all stationary SI ICE must keep records of the information below.

- All notifications submitted to comply with 40 CFR 60 Subpart JJJJ and all documentation supporting any notification.
- Maintenance conducted on the engine.
- Since the stationary SI internal combustion engines are not certified engines, documentation that the engine meets the emission standards.

b. Owners and operators of stationary SI ICE that are subject to performance testing must submit a copy of each performance test as conducted in 40 CFR 60.4244 within 60 days after the test has been completed.

[Rule 40 CFR 60.4245]

C.13. Monitoring, Reporting and Recordkeeping Requirements: To demonstrate that the actual annual emissions are equal to or less than the projected actual emissions of CO (125.81 tons/year), NO_x (81.47 tons/year), SO_2 (70.49 tons/year) and VOC (43.05 tons/year) for the 1.2 MW Digester Gas Electric Cogenerators (EUs 007, 009, 021, 022), the permittee shall do the following:

1. The permittee shall monitor the pollutant emissions; and, using the most reliable information available, calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of 5 years following resumption of

regular operations. Emissions shall be computed in accordance with Rule 62-210.370, F.A.C.

2. The permittee shall report to the Department's Office of Permitting and Compliance within 60 days after the end of each year during which records must be generated under subparagraph 62-212.300(1)(e)1., F.A.C., setting out the units annual emissions during the calendar year that preceded submission of the report. The report shall contain the following:
   a. The name, address and telephone number of the owner or operator of the major stationary source;
   b. The annual emissions as calculated pursuant to subparagraph 62-212.300(1)(e)1., F.A.C.;
   c. If the emissions differ from the preconstruction projection, an explanation as to why there is a difference; and
   d. Any other information that the owner or operator wishes to include in the report.
3. Reporting of any actual emissions levels that results in a significant increase of any pollutant as described in the Technical Evaluation and Preliminary Determination document for this project shall require that the permittee submit a PSD air construction permit application to address the pollution increase.
4. The information required to be documented and maintained pursuant to subparagraphs 62-212.300(1)(e)1. and 2., F.A.C., shall be submitted to the Department's Office of Permitting and Compliance, which shall make it available for review to the general public.

[Rule 62-212.300 F.A.C.]

C.14. Table 3 to Subpart JJJJ of Part 60—Applicability of General Provisions to Subpart JJJJ: As stated in 40 CFR 60.4246, the permittee must comply with the following applicable General Provisions.

General provisions citation	Subject of citation
§60.1	General applicability of the General Provisions
§60.2	Definitions
§60.3	Units and abbreviations
§60.4	Address
§60.5	Determination of construction or modification
§60.6	Review of plans
§60.7	Notification and Recordkeeping
§60.8	Performance tests
§60.9	Availability of information
§60.10	State Authority
§60.11	Compliance with standards and maintenance requirements
§60.12	Circumvention

General provisions citation	Subject of citation
§60.1	General applicability of the General Provisions
§60.2	Definitions
§60.3	Units and abbreviations
§60.14	Modification
§60.15	Reconstruction
§60.16	Priority list
§60.17	Incorporations by reference
§60.19	General notification and reporting requirements

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

EU No.	Brief Description
023	Emergency diesel engine driven starting air compressor (Hatz 37 HP Model 2M40LZ)

E.U. ID No.	Engine Brake HP	Date of Construction	Primary Fuel	Type of Engine	Displacement liters/cylinder (l/c)	Manufacturer / Model #
023	37.7	6-1-2000	Ultra Low Diesel No. 2	Non-Emergency	<10	Hatz 2M40LZ

{Permitting Note: This emissions unit, compression ignition (CI) engine, is regulated under 40 CFR 63, Subpart ZZZZ, NESHAP for Stationary RICE adopted in Rule 62.204.800(11)(b), F.A.C. This RICE is regulated as an existing non-emergency engine less than or equal to 300 HP that is located at an area source of HAPs and that has not been modified or reconstructed after 6/12/2006. If the RICE is modified or reconstructed after 7/11/2005, the NSPS 40 CFR 60, Subpart IIII, will then apply.}

Essential Potential to Emit (PTE) Parameters

D.1. Engine Startup. During periods of startup the owner or operator must minimize the engine's time spent at idle and minimize the engine's startup time to a period needed for the appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply. [40 CFR 63.6625(h)]

Emission Limitations and Operating Requirements

D.2. Work or Management Practice Standards.

a. *Oil*. Change oil and filter every 1000 hours of operation or annually, whichever comes first. [40 CFR 63.6603(a) & Table 2d1.a.]

b. *Air Cleaner*. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first. [40 CFR 63.6603(a) & Table 2d1.b.]

c. *Hoses and Belts*. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR 63.6603(a) & Table 2d1.c.]

d. *Operation and Maintenance*. Operate and maintain the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions or develop and follow 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. [40 CFR 63.6625(e), 63.6640(a) & Table 6.9.a.]

e. *Oil Analysis*. The owner or operator has the option of using oil analysis to extend the change requirement. The oil analysis must be performed at the same frequency specified for changing the oil in F**.2.a**. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent of water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent of water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days

or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR 63.6625(i)]

Compliance

D.3. Continuous Compliance. At all times, this unit:

a. Must be in compliance with the operating limitations in this section.

b. Must be operated and maintained in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[40 CFR 63.6605]

Recordkeeping Requirements

D.4. Maintenance Records. The owner or operator must keep records of the maintenance conducted on this unit in order to demonstrate that it is operated and maintained according to their own maintenance plan. [40 CFR 63.6655(e)]

D.5. Record Retention.

a. The owner or operator must keep records in a suitable and readily available form for expeditious reviews.

b. The owner or operator must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record.

[40 CFR 63.6660 and 40 CFR 63.10(b)(1)]

General Provisions

D.6. 40 CFR 63 Subpart A, General Provisions. This engine shall comply with all applicable requirements of 40 CFR 63 Subpart A, General Provisions, which have been adopted by reference in Rule 62-204.800(11)(d)1., F.A.C., except that the Secretary is not the Administrator for purposes of 40 CFR 63.5(e), 40 CFR 63.5(f), 40 CFR 63.6(g), 40 CFR 63.6(h)(9), 40 CFR 63.6(j), 40 CFR 63.13, and 40 CFR 63.14. This engine shall comply with the applicable portions of Appendix 40 NESHAP Subpart A included with this permit, as specified below.

General Provisions Citation	Subject of Citation
§63.1	General applicability of the General Provisions
§63.2	Definitions
§63.3	Units and abbreviations
§63.4	Prohibited activities and circumvention
§63.5	Construction and reconstruction
§63.6(a)	Applicability
§63.9(i)	Adjustment of submittal deadlines
§63.9(j)	Change in previous information
§63.10(a)	Administrative provisions for recordkeeping/reporting
§63.10(b)(1)	Record retention

General Provisions Citation	Subject of Citation
§63.10(b)(2)(vi)–(xi)	Records
§63.10(b)(2)(xii)	Record when under waiver
§63.10(b)(2)(xiv)	Records of supporting documentation
§63.10(b)(3)	Records of applicability determination
§63.10(d)(1)	General reporting requirements
§63.10(d)(4)	Progress Reports
§63.10(f)	Waiver for recordkeeping/reporting
§63.12	State authority and delegations
§63.13	Addresses
§63.14	Incorporation by reference
§63.15	Availability of information

[40 CFR 63.6665]Rule 62-204.800(11)(d)1., F.A.C.; Permit No. 0830007-013-AC, Specific Condition A.13.]