**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**
SOUTHEAST DISTRICT OFFICE
400 NORTH CONGRESS AVENUE, 3RD FLOOR
WEST PALM BEACH, FL 33401
561-681-6600

RICK SCOTT
GOVERNOR

CARLOS LOPEZ-CANTERA
LT. GOVERNOR

HERSCHEL T. VINYARD JR.
SECRETARY

***Sent by Electronic Mail – Received Receipt Requested***
dsharp@dspresources.net

## NOTICE OF FINAL AIR CONSTRUCTION PERMIT

In the Matter of an
Application for Permit Renewal:

Mr. Dave W. Sharp, Chief Operating Officer
Floridian Natural Gas Storage
1000 Louisiana Street, Suite 4300
Houston, TX 77002

FINAL Permit Project No.: 0850147-008-AC
Floridian Natural Gas Storage Co. LLC, Indiantown
Martin County
Minor Air Construction Permit Modification

Enclosed is the FINAL Modified Construction Permit, No. 0850147-008-AC. The purpose of the project was to modify emission units, as well as add and eliminate emission units as a result of the evolution of the project. In addition, this modification will extend the expiration date of the current construction permit. The facility is located in Martin County. This permit is issued pursuant to Chapter 403, Florida Statutes (F.S.). There were no comments received regarding the DRAFT Permit.

Any party to this order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, F.S., by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Legal Office; and, by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 (thirty) days from the date this Notice is filed with the Clerk of the Department.

Executed in West Palm Beach, Florida.

Department of Environmental Protection

_____ _____
Jennifer K. Smith Date
Assistant Director
Southeast District

JKS/dmp/lch/sdt

## CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Written NOTICE OF FINAL AIR CONSTRUCTION PERMIT (including the FINAL Determination and the FINAL Permit) was sent by electronic mail (or a link to these documents made available electronically on a publicly accessible server) with received receipt requested before the close of business on _____ to the persons listed below.

Dave W. Sharp, FNGSC: dsharp@dspresources.net
Mr. Scott H. Osbourn, P.E. Golder and Associates, Inc.: sosbourn@golder.com

Clerk Stamp

**FILING AND ACKNOWLEDGMENT FILED**, on this date, pursuant to Section 120.52(7), Florida Statutes, with the designated agency clerk, receipt of which is hereby acknowledged.

_____ _____
(Clerk) (Date)

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**
SOUTHEAST DISTRICT OFFICE
400 NORTH CONGRESS AVENUE, 3RD FLOOR
WEST PALM BEACH, FL 33401
561-681-6600

RICK SCOTT
GOVERNOR

CARLOS LOPEZ-CANTERA
LT. GOVERNOR

HERSCHEL T. VINYARD JR.
SECRETARY

# FINAL Determination

Minor Air Construction Modification Permits
FINAL Modified Permit No.: No. 0850147-008-AC
Floridian Natural Gas Storage Company, LLC
Indiantown Plant

## I. Notice and Publication

Public Notice of Intent to Issue Air Permit was published in the Stuart News on July 14, 2014. Proof of publication was received by the Department on July 17, 2014

## II. Comment(s).

No comments were received during the 14 day review period of the DRAFT Permit.

## III. Conclusion.

In conclusion, the permitting authority hereby issues the FINAL Permit.

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**
SOUTHEAST DISTRICT OFFICE
400 NORTH CONGRESS AVENUE, 3RD FLOOR
WEST PALM BEACH, FL 33401
561-681-6600

RICK SCOTT
GOVERNOR

CARLOS LOPEZ-CANTERA
LT. GOVERNOR

HERSCHEL T. VINYARD JR.
SECRETARY

*Sent by Electronic Mail – Received Receipt Requested*
dsharp@dspresources.net

**PERMITTEE**
Floridian Natural Gas Storage Company, LLC
1000 Louisiana Street, Suite 4300
Houston, TX 77002

Air Permit No. 0850147-008-AC
Permit Expires: October 8, 2015

Authorized Representative:
Mr. Dave W. Sharp
Chief Operating Officer

Floridian Natural Gas Storage Co.
Indiantown, Florida
Permit Modification and Renewal

This is the final air construction permit that to modifies the Floridian Natural Gas Storage Co., LLC facility construction permit as described in the permit application received by the Department on March 18, 2014, and incorporates the new National Emission Standards for Hazardous Air Pollutants (NESHAP) Rule 40 CFR Part 63, Subpart ZZZZ from the Environmental Protection Agency (EPA), as amended on March 6, 2013 and adopted by reference in 62-204(11)(b)82., F.A.C.

The proposed work will be conducted at the Floridian Natural Gas Storage Co. LLC, which is to be a Gas Storage facility (Standard Industrial Classification No. 4922). The facility will be located in Martin County at 18300 SW Warfield Boulevard Indiantown, Florida. The UTM coordinates are Zone 17, 549.40 km East, and 2991.04 km North.

This permit is organized by the following sections:

Section 1: General Information

Section 2: Administrative Requirements

Section 3: Emissions Unit Specific Conditions

Section 4: Appendices

Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of Section 4 of this permit.

This air pollution construction permit is issued under the provisions of: Chapter 403 of the Florida Statutes (F.S.) and Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297 of the Florida Administrative Code (F.A.C.). The permittee is authorized to conduct the proposed work in accordance with the conditions of this permit. This project is subject to the general preconstruction review requirements in Rule 62-212.300, F.A.C. and is not subject to the preconstruction review requirements for major stationary sources in Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

Upon issuance of this final permit, any party to this order has the right to seek judicial review of it under Section 120.68 of the Florida Statutes by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel (Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000) and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within 30 days after this order is filed with the clerk of the Department.

Executed in West Palm Beach, Florida
Department of Environmental Protection

_____ _____

Jennifer K. Smith (Date)
Southeast District Assistant Director

JKS/dmp/lch/sdt

**CERTIFICATE OF SERVICE**

The undersigned duly designated deputy agency clerk hereby certifies that this Final Air Permit package (including the Final Determination and Final Permit) was sent by electronic mail (or a link to these documents made available electronically on a publicly accessible server) with received receipt requested before the close of business on _____ to the persons listed below.

Dave W. Sharp, FNGSC: dsharp@dspresources.net
Mr. Scott H. Osbourn, P.E. Golder and Associates, Inc.: sosbourn@golder.com

Clerk Stamp

**FILING AND ACKNOWLEDGMENT FILED**, on this date, pursuant to Section 120.52(7), Florida Statutes, with the designated agency clerk, receipt of which is hereby acknowledged.

_____ _____

## SECTION 1. GENERAL INFORMATION

### Proposed Project

This project will modify construction permit 0850147-006-AC, by modifying Emissions Units 003, 004, 006, 007 and 008, eliminate Emissions Unit 005, and add new Emissions Units 009 and 010.

| **Facility ID No. 0850147** | |
|---|---|
| **ID No.** | **Emissions Unit Description** |
| 001 | Four Mechanical Draft Cooling Towers (75 Gallons per minute of water per cell) |
| 002 | Two Let Down Heaters at Meter Station (10 million Btu per hour each) |
| 003 | One Emergency Fire Water Pump (2.97 million Btu per hour) |
| 004 | One Emergency Generator (300 kW) |
| 006 | Five Water Ethylene Glycol Heaters (65 million Btu per hour each unit) |
| 007 | Four Regeneration Gas Heaters (9.1 million Btu per hour each unit) |
| 008 | Four Amine System Vents |
| 009 | One System/Emergency Flare (22.1 million Btu per hour maximum) |
| 010 | Four Fuel Gas Heaters (0.33 million Btu per hour each unit) |

This permit also addresses the following air pollution activities, which are deemed to be exempt from permitting, based on the information provided by the applicant to the Department:

| **Exempt Activity Description** |
|---|
| 60,000 Gallon Diesel fuel tank for Emergency Generators |
| 50,000 Gallon Diesel fuel tank for Emergency Generators |
| Utility Nitrogen |
| Instruments and Plant Air |

Exempt activities have no emissions unit specific conditions, but are subject to applicable general pollutant emissions limiting standards specified in Part II of this permit.

### FACILITY REGULATORY CLASSIFICATION

- The facility is not a major source of hazardous air pollutants (HAP).
- The facility has no units subject to the acid rain provisions of the Clean Air Act (CAA).
- The facility is a synthetic non-Title V major source of air pollution in accordance with Chapter 213, F.A.C.
- The facility is not a major stationary source in accordance with Rule 62-212.400(PSD), F.A.C.

## SECTION 2. ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority: The permitting authority for this project is the Florida Department of Environmental Protection, Southeast District Office (Department). The Southeast District Office mailing address is 400 North Congress Avenue, 3rd Floor, West Palm Beach, Florida 33401. All documents related to applications for permits to operate an emissions unit shall be submitted to the Southeast District Office.

2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Southeast District Office. The mailing address and phone number of the Southeast District Office is: 400 North Congress Avenue, 3rd Floor, West Palm Beach, Florida 33401 and Phone 561-681-6600.

3. Appendices: The following Appendices are attached as part of this permit:

   Appendix A. Citation Formats and Glossary of Common Terms
   Appendix B. General Conditions
   Appendix C. Common Conditions
   Appendix D. Common Testing Requirements
   Appendix E. 40 CFR 60, subpart IIII
   Appendix F. 40 CFR 60, subpart Dc
   Appendix G. 40 CFR 63 subpart ZZZZ
   Appendix H 40 CFR 60 subpart A

4. Applicable Regulations, Forms and Application Procedures: Unless otherwise specified in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403, F.S.; and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296 and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.

5. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time. [Rule 62-4.080, F.A.C.]

6. Modifications: The permittee shall notify the Compliance Authority upon commencement of construction. No new emissions unit shall be constructed and no existing emissions unit shall be modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]

7. Source Obligation:

   a. At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by virtue of a relaxation in any enforceable limitation which was established after August 7, 1980, on the capacity of the source or modification otherwise to emit a pollutant, such as a restriction on hours of operation, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification.
   b. At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by exceeding its projected actual emissions, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification.

   [Rule 62-212.400(12), F.A.C.]

**A. This subsection of the permit addresses the following emissions units.**

| ID No. | Emissions Unit Description |
|---|---|
| 001 | Four Mechanical Draft Cooling Towers (75 Gallons per minute of water per cell) |

**EQUIPMENT**

A.1. Four Mechanical Draft Cooling Towers: The permittee is authorized to install four Mechanical Draft Cooling Towers with a maximum process rate of 75 gallons per minute of water for each cell for a total of 300 gallons per minute. The construction of this emissions unit is a two Phase project; in phase one, two towers will be constructed and in the subsequent phase, the additional two towers will be added to the final project. [Application No. 0850147-001 and 006-AC]

**PERFORMANCE RESTRICTIONS**

A.2. Hours of Operation: The referenced emissions units may operate continuously, i.e., 8760 hours per year. [Rule 62-4.070(3), F.A.C. & Application 0850147-001-AC]

A.3. Control Equipment Particulate matter shall be controlled at the emissions unit by a low velocity Drift Eliminator which shall be maintained in proper working condition at all times. The owner and operator shall ensure that all facility staff responsible for this emissions unit is trained in their operation and maintenance in accordance with the guidelines and procedures as established by the equipment manufacturers. Rule 62-4.070(3), F.A.C. & Application 0850147-001-AC]

A.4. Water Flow Meter Calibration: Calibration of each water tower water flow meter shall be conducted in accordance with manufacturer's schedule and recommendation. All calibration data shall be maintained at the facility's physical location for inspection. [Rule 62-4.070(3), F.A.C]

A.5. Operating Procedures: This emissions unit shall be properly operated and maintained at all times in a condition to minimize emissions of air pollutants. The owner and operator shall ensure that all facility staff responsible for this emissions unit is trained in their operation and maintenance in accordance with the guidelines and procedures as established by the equipment manufacturers. [Rule 62-4.070(3), F.A.C.]

**B: This subsection of the permit addresses the following emissions units.**

| ID No. | Emissions Unit Description |
|---|---|
| 002 | Two M&R Let Down Heaters located at Meter Station (10 million Btu per hour each) |

**EQUIPMENT**

B.1. Two M&R Let Down Heaters: The permittee is authorized to install two M&R Let Down Heaters to be located at the Meter Station with a maximum heat input rate of 10 million Btu per hour each.

**PERFORMANCE RESTRICTION**

B.2. Permitted Capacity: Each unit shall be limited to 10 MMBtu per hour.
[Rule 62-4.070(3), F.A.C., & Requested in the application received June 11, 2012]

B.3. Authorized Fuel: Natural gas is the only authorized fuel.
[Rule 62-4.070(3), F.A.C. & Requested by applicant in Application received June 11, 2012]

B.4. Restricted Operation: Each Let Down Heater shall be limited to 1,040 hours in any consecutive 12- month period.
[Requested in the application received June 11, 2012]

**EMISSIONS STANDARDS**

B.5 Emissions Standards:

a. Sulfur Dioxide: Emissions shall not exceed 0.029 tons per year for each unit.
b. Nitrogen Oxides: Emissions shall not exceed 0.51 tons per year for each unit.
c. Carbon Monoxide: Emissions shall not exceed 0.43 tons per year for each unit.
d. VOC emissions: Emissions of Volatile Organic Compounds shall not exceed 0.028 Tons per year for each unit.

[Requested in the Application received June 11, 2012]

**TESTING REQUIREMENTS**

B.6. Initial Compliance Test: The emissions unit shall be tested to demonstrate initial compliance with the emissions standards for the pollutants in Specific Condition **5.** The initial tests shall be conducted within 60 days after achieving permitted capacity, but not later than 180 days after initial operation of the unit. [Rules 62-4.070(3) and 62-297.310(7)(a)1, F.A.C.]

B.7. Annual Compliance Tests: During each federal fiscal year (October 1st to September 30th), the emissions unit shall be tested to demonstrate compliance with the emissions standards for the pollutants in Specific Conditions B.**5**. [Rule 62-297.310(7)(a)4, F.A.C.]

B.8. 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.]

B.9. Test Methods: Required tests shall be performed in accordance with the following reference methods.

| Method | Description of Method and Comments |
|---|---|
| 1-4 | Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content |
| 7E | Determination of Nitrogen Oxide Emissions from Stationary Sources |
| 10 | Determination of Carbon Monoxide Emissions from Stationary Sources |

*{The above methods are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. Rules 62-204.800 and 62-297.100, F.A.C.; and Appendix A of 40 CFR 60}*

**MONITORING REQUIREMENTS**

B.10. Hours of Operation: The owner or operator shall monitor the hours of operation of the referenced emissions units. [Rule 62-4.070(3), F.A.C.]

B.11. Fuel Consumption: The owner or operator shall monitor fuel consumption by the referenced emissions unit. [Rule 62-4.070(3), F.A.C.]

**C: This subsection of the permit addresses the following emissions unit.**

| ID No. | Emissions Unit Description |
|---|---|
| 003 | One Emergency Fire Water Pump (2.97 million Btu per hour & 298 kW/400hp) |

**NSPS and NESHAP APPLICABILITY**

C.1. NSPS Subpart IIII Applicability: This emergency fire water pump is a Stationary Compression Ignition Internal Combustion Engine (Stationary ICE) and shall comply with applicable provisions of 40 CFR 60, Subpart IIII, including emission testing or certification. [40 CFR 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.]

C.2. NESHAP Subpart ZZZZ Applicability: The emergency generator is a Liquid Fueled Reciprocating Internal Combustion Engine (RICE) and shall comply with applicable provisions of 40 CFR 63, Subpart ZZZZ. Pursuant to 40 CFR 63.6590(c) the generators must meet the requirements of Subpart ZZZZ by meeting the requirements of 40 CFR 60, Subpart IIII. [40 CFR 63, Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE)]

**EQUIPMENT**

C.3. Emergency Fire Water Pump: The permittee is authorized to install one emergency fire water pump with 2.97 million Btu per hour and 298 kW.

**PERFORMANCE RESTRICTION**

C.4. Fuel Consumption: Fuel consumption from this emissions unit shall not exceed 2,200 gallons of fuel in any consecutive 12-month period.
[Rule 62-297.440(1), F.A.C., & Requested by applicant on the construction application received March 18, 2014]

C.5. Allowable Fuel. The stationary 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) for non-road diesel 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) and 40 CFR 80.510(b)]

C.6. Restricted Operation: This emissions unit shall be limited to a combined maximum operating time of 100 hours per year in any consecutive 12- month period.
[Rule 62-210.200, F.A.C., & Requested by applicant on the construction application received March 18, 2014]

**EMISSION STANDARDS & LIMITS**

C.7. NSPS Subpart IIII Applicability: The fire pump engine is an Emergency Stationary Compression Ignition Internal Combustion Engine (Stationary ICE) and is subject to 40 CFR 60, Subpart IIII. It shall comply with 40 CFR 60, Subpart IIII only to the extent that the regulations apply to the emissions unit and its operations (e.g. fire pumps, horsepower, and model year selected). Per Table 4 to Subpart IIII of Part 60, the stationary diesel engine shall comply with the following emission standards and limits and demonstrate compliance in accordance with the procedures in Subpart IIII.

| Maximum Fire Pump Engine Power 2009+ | CO | | PM | | NMHC+NOx | |
|---|---|---|---|---|---|---|
| | (g/kW-hr)[1] | (lb/hr)[2] | (g/kW-hr)[1] | (lb/hr)[2] | (g/kW-hr)[1] | (lb/hr)[2] |
| 225≤kW≤450 (300≤hp≤600) | 3.5 | 2.30 | 0.2 | 0.131 | 4.0 | 2.63 |

1 g/kW-hr means grams per kilowatt-hour
2 Equivalent lb/hr (based on 298 kw engine)
3 SO2 emission standard will be met by using ULSD fuel oil in the emergency generator with fuel sulfur (S) content of 0.0015% by weight.
4 NMHC means non-methane hydrocarbons.

[40 CFR 60, Subpart IIII]

C.8. NESHAP Subpart ZZZZ Applicability: The fire pump engine is an Emergency Stationary Compression Ignition Internal Combustion Engine (Stationary ICE) and is subject to 40 CFR 63, Subpart ZZZZ as adopted by the State of Florida by reference via 62-204(11)(b)82., F.A.C.. It shall comply with 40 CFR 63, Subpart ZZZZ only to the extent that the regulations apply to the emissions unit and its operations (e.g. fire pumps, horsepower, and model year).
[40 CFR 63, Subpart ZZZZ, 62-204(11)(b)82., F.A.C.]

C.9. Fire Pump Engine Certification: Manufacturer certification shall be provided to the Department. The applicant shall submit a permit modification to incorporate testing requirements if a non-certified engine is being used.
[Rule 62-4.070(3), F.A.C.]

**MONITORING REQUIREMENTS**

C.10. Hours of Operation: The owner or operator shall monitor the hours of operation of the referenced emissions unit with an hour meter.
[Rule 62-4.070(3), F.A.C.]

C.11. Fuel Consumption: The owner or operator shall monitor fuel consumption by the referenced emissions unit metering the fuel.
[Rule 62-4.070(3), F.A.C.]

C.12. AOR Supplemental Information: Annual operating report shall include the following supplemental information that was recorded in the previous calendar year:
a. The highest usage of fuel oil.
b. Fuel usage and sulfur percent of fuel.
c. Hours of operation

**D: This subsection of the permit addresses the following emissions unit.**

| ID No. | Emissions Unit Description |
|---|---|
| 004 | One Emergency Generator (300 kW/402 hp) |

**NSPS and NESHAP APPLICABILITY**

D.1. NSPS Subpart IIII Applicability: This emergency generator is a Stationary Compression Ignition Internal Combustion Engine (Stationary ICE) and shall comply with applicable provisions of 40 CFR 60, Subpart IIII, including emission testing or certification. [40 CFR 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.]

D.2. NESHAP Subpart ZZZZ Applicability: The emergency generator is a Liquid Fueled Reciprocating Internal Combustion Engine (RICE) and shall comply with applicable provisions of 40 CFR 63, Subpart ZZZZ. Pursuant to 40 CFR 63.6590(c) the generators must meet the requirements of Subpart ZZZZ by meeting the requirements of 40 CFR 60, Subpart IIII. [40 CFR 63, Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE).]

**EQUIPMENT**

D.3. Emergency Generator: The permittee is authorized to install one 300 kW emergency generator with 2.99 million Btu per hour (HHV). There are two associate fuel tanks for this emissions unit with a capacity of 60,000 and 50,000 gallons respectively.

**PERFORMANCE RESTRICTION**

D.4. Fuel Consumption: Fuel consumption for the generator shall not exceed more than 242,620 gallons per year in any consecutive 12- month period.
[Rule 62-4.070(3), F.A.C. & Requested by applicant on the construction permit application received March 18, 2014]

D.5. Allowable Fuel. The stationary 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) for non-road diesel 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) and 40 CFR 80.510(b)]

D.6. Restricted Operation: This emissions unit shall be limited to a combined maximum operating time of 100 hours per year in any consecutive 12- month period.
[Rule 62-210.200, F.A.C., & Requested by applicant on the construction application received March 18, 2014]

D.7. Operating Procedures: The generator shall be properly operated and maintained at all times in a condition to minimize emissions of air pollutants. The owner and operator shall ensure that all facility staff responsible for this emissions unit is trained in their operation and maintenance in accordance with the guidelines and procedures as established by the equipment manufacturers.
[Rule 62-4.070(3), F.A.C.]

D.8. NSPS Subpart IIII Applicability: This emissions unit is subject to the Performance Standards (NSPS) Subpart IIII Applicability. The emergency generator set is an Emergency Stationary Compression

Ignition Internal Combustion Engine (Stationary ICE) and is subject to 40 CFR 60, Subpart IIII. (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines) it shall comply with 40 CFR 60, Subpart IIII only to the extent that the regulations apply to the emissions unit and its operations. (See Appendix **E**) Per Subpart III, the stationary diesel engine shall comply with the following emission standards and limits and demonstrate compliance in accordance with the procedures in Subpart IIII.

From Table 1 from 40 CFR 89.112

| Maximum Generator Engine Power Tier 3 2006+ | **CO** | | **PM** | | **NMHC+NOx** | |
|---|---|---|---|---|---|---|
| | (g/kW-hr)[1] | (lb/hr)[2] | (g/kW-hr)[1] | (lb/hr)[2] | (g/kW-hr)[1] | (lb/hr)[2] |
| 225≤kW≤450 (300≤hp≤600) | 3.5 | 2.31 | 0.2 | 0.132 | 4.0 | 2.64 |

1 g/kW-hr means grams per kilowatt-hour
2 Equivalent lb/hr (based on 300 kw engine)
3 SO2 emission standard will be met by using ULSD fuel oil in the emergency generator with fuel sulfur (S) content of 0.0015% by weight.
4 NMHC means non-methane hydrocarbons.

[40 CFR 60, Subpart IIII]

D.9. NESHAP Subpart ZZZZ Applicability: The emergency generator engine is an Emergency Stationary Compression Ignition Internal Combustion Engine (Stationary ICE) and is subject to 40 CFR 63, Subpart ZZZZ as adopted by the State of Florida by reference via 62-204(11)(b)82., F.A.C.. It shall comply with 40 CFR 63, Subpart ZZZZ only to the extent that the regulations apply to the emissions unit and its operations (e.g. emergency generator operating at and area source, horsepower, and model year).
[40 CFR 63, Subpart ZZZZ, 62-204(11)(b)82., F.A.C.]

D.10. Emergency Generator Engine Certification: Manufacturer certification shall be provided to the Department. The applicant shall submit a permit modification to incorporate testing requirements if a non-certified engine is being used.
[Rule 62-4.070(3), F.A.C.]

**MONITORING REQUIREMENTS**

D.11. Fuel Consumption: The owner or operator shall monitor fuel consumption by the referenced emissions units by metering the fuel.
[Rule 62-4.070(3), F.A.C.]

D.12. Hours of Operation: The owner or operator shall monitor the hours of operation of the referenced emissions unit with an hour meter.
[Rule 62-4.070(3), F.A.C.]

D.13. Fuel Sulfur Content and Certifications Records: The owner or operator shall maintain records of sulfur content of each delivery of diesel fuel received for these emissions unit. Copies of the fuel supplier certifications or records shall be maintained at the facility's physical location for inspection.
[Rule 62-4.070(3), F.A.C.]

D.14. Records of Maintenance: The owner or operator shall make and maintain records of maintenance on this emissions unit sufficient to demonstrate compliance with the operating procedures requirements.
[Rule 62-4.070(3), F.A.C.]

D.15. Meter Fuel Calibration: Calibration of the fuel meter shall be conducted in accordance with manufacturer's schedule and recommendation. All calibration data shall be maintained at the facility physical location for inspection by Department Staff.
[Rule 62-4.070(3), F.A.C.]

D.16. AOR Supplemental Information: Annual operating reports shall include the following supplemental information that was recorded in the previous calendar year:

a. The highest percent sulfur content (by weight) of diesel fuel received.

[Rule 62-4.070(3), F.A.C.

**COMPLIANCE REQUIREMENTS**

D.17. Compliance Requirements. Owner or operator must demonstrate compliance according to one of the methods below:

a. Certification. Have purchased an engine certified according to 40 CFR 89 or 94, as applicable, for the same model year and maximum engine power.
b. Manufacturer Data. Keep records of engine manufacturer data indicating compliance with the standards.
c. Vendor Data. Keep records of control device vendor data indicating compliance with the standards.
d. Performance Test. Conduct an initial performance test to demonstrate compliance with the emission standards according to the testing requirements in this section.
e. Similar Engine Tests. Keep records of performance test results for each pollutant for a test conducted on a similar engine. The test must have been conducted using the same methods specified in this subpart and these methods must have been followed correctly.

[40 CFR 60.4211(b)]

**TESTING REQUIREMENTS**

D.18. Performance Test. Performance test must be conducted according to the in-use testing procedures in 40 CFR 1039, Subpart F. [40 CFR 60.4212]

D.19. Engine Manufacturer's Recommendations and Instructions. If the owner/operator does not install, configure, operate, and maintain the engine according to the manufacturer's recommendations and instructions, any required testing shall be completed in accordance with 40 CFR 60, Subpart IIII.
[40 CFR 60.4212.]

D.20. Not to exceed (NTE) Standards. Exhaust emissions from stationary CI ICE that are complying with the emission standards must not exceed the not to exceed (NTE) numerical requirements, rounded to the same number of decimal places as the applicable standard, determined from the following equation: NTE = (1.25) x (Standard). [40 CFR 60.4212]

**RECORDKEEPING REQUIREMENTS**

D.21. Required Records. 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.
[40 CFR 60.4214]

D.22. 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)]

**NSPS 40 CFR 60, SUBPART A & IIII REQUIREMENTS**

D.23. NSPS Requirements - Subpart A. These emissions units shall comply with all applicable requirements of 40 CFR 60, Subpart A, General Provisions, including:
40 CFR 60.7, Notification and Recordkeeping
40 CFR 60.8, Performance Tests
40 CFR 60.11, Compliance with Standards and Maintenance Requirements
40 CFR 60.12, Circumvention
40 CFR 60.13, Monitoring Requirements
40 CFR 60.19, General Notification and Reporting Requirements,

which have been adopted by reference in Rule 62-204.800(8)(d), F.A.C.; except that the Secretary is not the Administrator for purposes of 40 CFR 60.4, 40 CFR 60.8(b)(2) and (3), 40 CFR 60.11(e)(7) and (8), 40 CFR 60.13(g), (i) and (j)(2), and 40 CFR 60.16. The applicable 40 CFR 60, Subpart A, General Provisions to which these emissions are subject to are found at 40 CFR 63.4218 and are included in Appendix 40 CFR 60 Subpart A. [Rule 62-204.800(8)(d), F.A.C.]

D.24. 40 CFR 60 Requirements - Subpart IIII [Generally Applicable Requirements]. These emissions units shall comply with all applicable requirements of 40 CFR 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, which have been adopted by reference in Rule 62-204.800(8), F.A.C. These emissions units shall comply with Appendix 40 CFR 60 Subpart IIII "Generally Applicable Requirements," included with this permit, which includes applicable requirements that apply in general to all engines regulated under 40 CFR 60, Subpart IIII. This appendix also contains useful information like definitions (see 40 CFR 60.4219) that are specific to engines regulated under 40 CFR 60 Subpart IIII. [Rule 62-204.800(8), F.A.C.]

**E. -- This subsection of the permit addresses the following emissions unit**

| ID No. | Emissions Unit Description |
|---|---|
| 006 | Water Ethylene Glycol (WEG) Heaters (65 million Btu per unit) |

**EQUIPMENT**

E.1. Water Ethylene Glycol Heaters: The permittee is authorized to install five WEG Heaters with a maximum heat input rate of 65 million Btu/hr. per unit. EPA region 4 determined that this emission unit is subject to 40 CFR Subpart Dc because natural gas is combusted to heat Ethylene Glycol, which is a heat transfer medium used to heat pipeline natural gas each [Application 0850147-008-Application 0850147-006- & 0850147-001-AC]

**PERFORMANCE RESTRICTION**

E.2. Permitted Capacity: The Maximum operational heat input rate for each WEG heater is limited to 65 million Btu per hour. [Rule 62-4.070(3), F.A.C. and application 0850147-008-AC]

E.3. Hours of Operation: Each unit shall be limited to 1,040 hrs in any consecutive 12-month period. [Rule 62-4.070(3), F.A.C. and application 0850147-006-AC]

E.4. Fuel Usage. Fuel usage shall be limited to natural gas.

**EMISSIONS STANDARDS**

E.5. Emissions Standards

a. Sulfur Dioxide: Emissions shall not exceed 0.22 tons per year for each unit.
b. Nitrogen Oxides: Emissions shall not exceed 1.8 tons per year for each unit.
c. Carbon Monoxide: Emissions shall not exceed 1.8 tons per year for each unit.
d. VOC emissions: Emissions of Volatile Organic Compounds shall not exceed 1.04 Tons per year for each unit.
e. PM emissions: PM emissions shall not exceed 0.19 tons per year

[Requested by applicant in Application received March 8, 2014]

**TESTING REQUIREMENTS**

E.6. Initial Compliance Tests: The emissions unit shall be tested to demonstrate initial compliance with the emissions standards for pollutants in specific condition No. **E.5**. The initial tests shall be conducted within 60 days after achieving permitted capacity, but not later than 180 days after initial operation of the unit. [Rules 62-4.070(3) and 62-297.310(7)(a)1, F.A.C.]

E.7. Annual Compliance Tests: During each federal fiscal year (October 1st to September 30th), the emissions unit shall be tested to demonstrate compliance with the emissions standards for pollutants in specific condition No**. E.5**. [Rule 62-297.310(7)(a)4, F.A.C.]

E.8. 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**

E.9. The owner or operator of shall record and maintain records of the monthly standard cubic feet of natural gas combusted in the WEG heaters. [Rule 62-4.070(3), F.A.C. and 40 CFR 60.48c.(g)]

E.10. All records required under this section shall be maintained by the owner or operator of the affected facility for a period of three years following the date of such record. [Rule 62-4.070(3), F.A.C. 40 CFR 60.48c (i)]

E.11. The owner or operator shall determine the total and individual HAPs from the combustion of natural gas at this emissions unit. The information shall be reported on the annual operation report (AOR).
[Rule 62-4.070(3), F.A.C.]

**F. -- This subsection of the permit addresses the following emissions unit**

| ID No. | Emissions Unit Description |
|---|---|
| 007 | Four Regeneration Gas Heaters (9.1 million Btu per hour each unit) |

**EQUIPMENT**

F.1. Regeneration Gas Heaters: The permittee is authorized to install four Regeneration Gas Heaters with a maximum heat input rate of 9.1 MMBtu per hr for each unit.

**PERFORMANCE RESTRICTION**

F.2. Hours of Operation: Each Regeneration Gas Heater shall be limited to 8,400 hours in any consecutive 12-month period.
[Rule 62-4.070(3), F.A.C., and application 0850147-006-AC]

F.3. Maximum Heat Input Rate: Maximum heat input rate shall not exceed 9.1 MMBtu per hr for each unit. [Rule 62-4.070(3), F.A.C.]

**EMISSIONS STANDARDS**

F.4. Emissions Standards:

a. Sulfur Dioxide: Emissions shall not exceed 0.21 tons per year for each unit.
b. Nitrogen Oxides: Emissions shall not exceed 3.74 tons per year for each unit.
c. Carbon Monoxide: Emissions shall not exceed 3.14 tons per year for each unit.
d. VOC emissions: Emissions of Volatile Organic Compounds shall not exceed 0.21 tons per year for each unit.
e. PM emissions: PM emissions shall not exceed 0.28 tons per year [Requested in application 0850147-008-AC received March 8, 2014]

**TESTING REQUIREMENTS:**

F.5. Initial Compliance Tests: The emissions unit shall be tested to demonstrate initial compliance with the emissions standards for Pollutants in specific condition unit **F.4.** The initial tests shall be conducted within 60 days after achieving permitted capacity, but not later than 180 days after initial operation of the unit. [Rules 62-4.070(3) and 62-297.310(7)(a)1, F.A.C.]

F.6. Annual Compliance Tests: During each federal fiscal year (October 1st to September 30th), the emissions unit shall be tested to demonstrate compliance with the emissions standards for emissions unit in specific condition **F.4**. [Rule 62-297.310(7)(a)4, F.A.C.]

F.7. 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**

F.8. Hours of Operation: The owner or operator shall record and maintain records of the hours of operation of the referenced emissions units on a monthly basis. [Rule 62-4.070(3), F.A.C.]

F.9. Fuel Consumption Limits: The owner or operator shall maintain records of the fuel consumption on a monthly basis. [Rule 62-4.070(3), F.A.C.]

**G: This subsection of the permit addresses the following emissions unit.**

| ID No. | Emissions Unit Description |
|---|---|
| 008 | Amine System Vent (4 Vents) |

**EQUIPMENT**

G.1. Amine System: The permittee is authorized to install four Amine System Vents.

G.2. Hours of Operation: Each Amine System Vent shall be limited to a maximum operating time of 8,400 hours in any consecutive 12-month period.
[Rule 62-4.070(3), F.A.C.]

G.3. Volatile Organic Compounds (VOC) Emissions: Emissions of volatile organic compound for the four vents combined shall not exceed 45.4 tons in any consecutive 12-month period.
[Rule 62-4.070(3), F.A.C.]

G.4. VOC Emissions: VOC emissions shall not exceed the limitations stated in specific condition **G.3**. above. Monthly emissions of this pollutant shall be calculated using the emission factor of 7.11 lb/hr. per vent.
[Rule 62-4.070(3), F.A.C., and Requested by Applicant]

**H. -- This subsection of the permit addresses the following emissions units**

| ID No. | Emissions Unit Description |
|---|---|
| 009 | One System Flare |

**EQUIPMENT**

H.1. System Flare: The permittee is authorized to construct an open flare system with a continuous natural gas pilot flame. The flare used to comply with this permit shall comply with the requirements of 40 C.F.R. 60.18, included in Appendix H.
[Application No. 0850147-008-AC and Rule 62-4.070(3), F.A.C. Reasonable Assurance]

**PERFORMANCE RESTRICTIONS**

H.2. Restricted Operation: The hours of operation of the flare system are not limited (8,760 hours per year).
[Application No. 0850147-008-AC and Rule 62-210.200, F.A.C. Definition of "Potential to Emit"]

**TESTING AND MONITORING REQUIREMENTS**

H.3. Operation and Maintenance: The permittee shall monitor the flare to ensure that it is operated and maintained in conformance with its design.
[Rule 62-4.070(3), F.A.C. Reasonable Assurance]

**RECORDS AND REPORTS**

H.4. Records: The permittee shall record in a written or electronic log the duration of each flare event and the reason for flaring. These records shall be shall be kept and made available to the Compliance Authority upon request.
[Rule 62-4.070(3), F.A.C. Reasonable Assurance]

**I. -- This subsection of the permit addresses the following emissions units**

| ID No. | Emissions Unit Description |
|---|---|
| 010 | Four Fuel Gas Heaters (0.33 million Btu per hour each unit) |

**EQUIPMENT**

I.1. The permittee is authorized to install four Fuel Gas Heaters with a maximum heat input rate of 0.33 MMBtu per hr for each unit.

**PERFORMANCE RESTRICTION**

I.2. Hours of Operation: Each Regeneration Gas Heater shall be limited to 2,000 hours in any consecutive 12-month period.

[Rule 62-4.070(3), F.A.C., and application 0850147-008-AC]

I.3. Maximum Heat Input Rate: Maximum heat input rate for each unit shall not exceed 0.33 MMBtu per hr.

[Rule 62-4.070(3), F.A.C.]

**EMISSIONS STANDARDS**

I.4. Emissions Standards:

a. Sulfur Dioxide: Emissions shall not exceed 0.009 tons per year for each unit.
b. Nitrogen Oxides: Emissions shall not exceed 0.058 tons per year for each unit.
c. Carbon Monoxide: Emissions shall not exceed 0.058 tons per year for each unit.
d. VOC emissions: Emissions of Volatile Organic Compounds shall not exceed 0.032 tons per year for each unit.
e. PM emissions: PM emissions shall not exceed 0.009 tons per year.

[Requested in application 0850147-008-AC]

**TESTING REQUIREMENTS**

I.5. Initial Compliance Tests: The emissions unit shall be tested to demonstrate initial compliance with the emissions standards for Pollutants in specific condition unit F.4. The initial tests shall be conducted within 60 days after achieving permitted capacity, but not later than 180 days after initial operation of the unit. [Rules 62-4.070(3) and 62-297.310(7)(a)1, F.A.C.]

I.6. Annual Compliance Tests: During each federal fiscal year (October 1st to September 30th), the emissions unit shall be tested to demonstrate compliance with the emissions standards for emissions unit in specific condition F.4. [Rule 62-297.310(7)(a)4, F.A.C.]

I.7. 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**

I.8. Hours of Operation: The owner or operator shall record and maintain records of the hours of operation of the referenced emissions units on a monthly basis. [Rule 62-4.070(3), F.A.C.]

I.9. Fuel Consumption Limits: The owner or operator shall maintain records of the fuel consumption on a

monthly basis. [Rule 62-4.070(3), F.A.C.]

## SECTION 4. APPENDICES

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