Tampa Electric Company
J.H. Phillips Station
Facility ID No. 0550018
Highlands County

Title V Air Operation Permit Renewal

DRAFT Permit No. 0550018-005-AV
(Renewal of Title V Air Operation Permit No. 0550018-004-AV)

Permitting Authority
State of Florida
Department of Environmental Protection
South District Office

2295 Victoria Avenue, Suite 364
P.O. Box 2549
Fort Myers, Florida 33902

Telephone: (239) 344-5600
Fax: (850) 412-0590

Compliance Authority
State of Florida
Department of Environmental Protection
South District Office

2295 Victoria Avenue, Suite 364
P.O. Box 2549
Fort Myers, Florida 33902

Telephone: (239) 344-5600
Fax: (850) 412-0590

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Table of Contents

Section **Page Number**

I. Facility Information.
A. Facility Description. 2
B. Summary of Emissions Units. 2
C. Applicable Regulations. 3

II. Facility-wide Conditions. 4

III. Emissions Units and Conditions.
A. Two (2) Slow Speed Diesel Engine Generators. 6
B. Auxiliary Steam Boiler. 9
C. 600 kW (860 HP) Emergency Diesel Generating Unit. 11
D. Common Conditions. 13

IV. Appendices. 15
Appendix A, Glossary.
Appendix I, List of Insignificant Emissions Units and/or Activities.
Appendix RR, Facility-wide Reporting Requirements.
Appendix TR, Facility-wide Testing Requirements.
Appendix TV, Title V General Conditions.
Appendix ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.
Appendix DDDDD, National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters.

PERMITTEE:
Tampa Electric Company
P.O. Box 111
Tampa, Florida 33601-0111

Permit No. 0550018-005-AV
J.H. Phillips Station
Facility ID No. 0550018
Title V Permit Renewal

The purpose of this permit is to renew the Title V Air Operation Permit for the above referenced facility. The existing J.H. Phillips Station is located at 7301 Haywood Taylor Boulevard, Sebring, in Highlands County. UTM Coordinates are: Zone 17, East (km) 464.3, North (km) 3035.4. Latitude is: 27° 26′ 35" North; and, Longitude is: 81° 21′ 54" West.

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

Effective Date: **DRAFT**
Renewal Application Due Date: **DRAFT**
Expiration Date: **DRAFT**

DRAFT

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Jon M. Iglehart
Director of
District Management
Post Office Box 2549
Fort Myers, Florida 33902-2549
(239) 344-5600

JMI/GAM/mf

SECTION I. FACILITY INFORMATION.

Subsection A. Facility Description.

At the time of this permit renewal, the J.H. Phillips Station was in long-term reserve shutdown status and had been in long-term reserve shutdown status since September 2009.

This facility consists of two 19.580 MW slow speed diesel engine generators, a 10.46 MMBtu/hour auxiliary steam boiler, and a 600 kW (860 HP) emergency diesel generating unit. Each of the two slow speed diesel engines has a heat recovery steam generator which powers a common steam turbine generator with a rating of 3.6 MW.

The two slow speed diesel generators were permitted under PSD-FL-071 with Best Available Control Technology (BACT) determination dated April 2, 1981. These units are existing compression ignition (CI) stationary reciprocating internal combustion engines (RICE). These units have a maximum heat input rate of 172 MMBtu/hr. The units use No. 6 fuel oil with a sulfur content less than or equal to 2.5% sulfur by weight. There is no control equipment.

The auxiliary steam boiler has a maximum heat input of 10.46 MMBtu/hr. The boiler uses No. 2 fuel oil with a sulfur content less than or equal to 0.5% sulfur by weight. Propane is used for ignition during startups. There is no control equipment.

The 600 kW (860 HP) emergency diesel generating unit is estimated to operate for no more than 500 hours per year. It uses No. 2 fuel oil with a sulfur content less than or equal to 0.5% sulfur by weight. The maximum heat input rate is 6.02 MMBtu/hr. There is no control equipment.

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

This facility is a major source of Hazardous Air Pollutants (HAPs).

If returned to operation, the slow speed diesel generators shall comply with the requirements of 40 CFR 63 Subpart ZZZZ, *National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines*, because they are existing compression ignition (CI) stationary reciprocating internal combustion engines (RICE) located at a major hazardous air pollutant (HAP) source and affected sources under Subpart ZZZZ. The slow speed diesel generators do not have to meet the requirements of 40 CFR 60 Subpart IIII as the units are existing and not new or reconstructed [per 40 CFR 60.4200(c)(2) and (3)]

If returned to operation, the auxiliary steam boiler shall comply with the requirements of 40 CFR 63 Subpart DDDDD, *National Emissions Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters*, because it is located at a major HAP source and is an affected source under Subpart DDDDD.

Subsection B. Summary of Emissions Units.

EU No.	Brief Description
Regulated Emissions Units	
001	Slow Speed Diesel Engine Generator #1
002	Slow Speed Diesel Engine Generator #2
004	Auxiliary Steam Boiler
005	600 kW (860 HP) Emergency Diesel Generating Unit.

Subsection C. Applicable Regulations.

Based on the Title V Air Operation Renewal application received September 24, 2013, this facility is a major source of hazardous air pollutants (HAPs). This facility is classified as a PSD major facility. A summary of applicable regulations is shown in the following table.

Regulation	EU No(s).
62-4	001, 002, 004, 005
62-210	001, 002, 004, 005
62-212	001, 002, 004, 005
62-213	001, 002, 004, 005
62-296	001, 002, 004, 005
62-297	001, 002, 004, 005
40 CFR 63 Subpart ZZZZ	001, 002, 005
40 CFR 63 Subpart DDDDD	004

SECTION II. FACILITY-WIDE CONDITIONS.

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 unnecessary and ordered by the Department. "Nothing is deemed necessary and ordered at this time." [Rule 62-296.320(1)(a), F.A.C.]

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. Chemical or water application to unpaved roads and unpaved yard areas;
b. Paving and maintenance of roads, parking areas and yards;
c. Landscaping or planting of vegetation; and
d. Confining abrasive blasting where possible.

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

Annual Reports and Fees

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

FW6. Annual Operating Report. The permittee shall submit an annual report that summarizes the actual operating rates and emissions from this facility. Annual operating reports shall be submitted to the Compliance Authority by April 1st of each year. [Rule 62-210.370(3), F.A.C.]

FW7. Annual Emissions Fee Form and Fee. The annual Title V emissions fees are due (postmarked) by March 1st of each year. The completed form and calculated fee shall be submitted to: Major Air Pollution Source Annual Emissions Fee, P.O. Box 3070, Tallahassee, Florida 32315-3070. The forms are available for download 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/permitting/tvfee.htm. [Rule 62-213.205, F.A.C.]

FW8. 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.]

FW9. Prevention of Accidental Releases (Section 112(r) of CAA).

a. The permittee shall submit its Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center when, and if, such requirement becomes applicable. Any Risk Management Plans, original submittals, revisions or updates to submittals, should be sent to: RMP Reporting Center, Post Office Box 1515, Lanham-Seabrook, MD 20703-1515, Telephone: 301/429-5018.

b. The permittee shall submit to the permitting authority Title V certification forms or a compliance schedule in accordance with Rule 62-213.440(2), F.A.C.

[40 CFR 68]

FW10. Prohibited Discharges. There shall be no discharge of liquid effluents or contaminated runoff from plant site. [Permit Nos. AC28-7291 and AC28-7377]

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

EU No.	Brief Description
001	19.580 MW Slow Speed Diesel Engine Generator
002	19.580 MW Slow Speed Diesel Engine Generator

EU001 and EU002 are each a 19.580 MW slow speed diesel engine generator. {EU001 and EU002 are subject to PSD (Permit No. PSD-FL-071) and BACT determination of April 2, 1981, and 40 CFR 63, Subpart ZZZZ. Each emission unit has a vertical stack of 150 feet and exit diameter of 5.3 feet.}

Essential Potential to Emit (PTE) Parameters

A.1. Permitted Capacity. The maximum allowable heat input rate is as follows:

EU No.	MMBtu/hr Heat Input (HHV)	Fuel Type
001	172	No. 6 Fuel Oil
002	172	No. 6 Fuel Oil

[Rules 62-4.160(2), 62-204.800, 62-210.200(PTE), F.A.C.; and, Permit No(s). AC28-7291 and AC28-7377, PSD-FL-071]

A.2. Emissions Unit Operating Rate Limitation After Testing. See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(2), F.A.C.]

A.3. Methods of Operation.

a. *Fuels:* The units are authorized to fire Number 6 fuel oil with a sulfur content of ≤ 2.5% by weight. Maximum fuel oil consumption shall not exceed 9,199.5 lb/hr per engine.

[Rule 62-213.410, F.A.C.; AC28-7291 and AC28-7377]

A.4. Hours of Operation: Each of these emissions units (EU001 and EU002) shall not exceed 8,400 hours/year. [Rule 62-210.200(PTE), F.A.C.: PSD-FL-071]

Emission Limitations and Standards

Unless otherwise specified, the averaging time(s) for Specific Condition(s) **A.5. - A.10.** are based on the specified averaging time of the applicable test method.

A.5. Visible Emissions (VE). VE for each unit shall not exceed 10% opacity. [PSD-FL-071; Permit Nos. AC28-7377 and AC28-7291; BACT Determination dated April 2, 1981]

A.6. Nitrogen Oxide (NO_X) Emissions. NO_X emissions for each unit shall not exceed 819 ppm @ 15% O_2 on dry basis and 572 lb/hr. [PSD-FL-071; Permit Nos. AC28-7377 and AC28-7291; BACT Determination dated April 2, 1981]

A.7. Particulate Matter (PM) Emissions. PM emissions for each unit shall not exceed 0.10 lb/MMBtu and 17 lb/hr. [PSD-FL-071; Permit Nos. AC28-7377 and AC28-7291; BACT Determination dated April 2, 1981]

A.8. Volatile Organic Compounds (VOC): VOC emissions for each unit shall not exceed 0.260 lb/MMBtu and 45 lb/hr. [PSD-FL-071; Permit Nos. AC28-7377 and AC28-7291; BACT Determination dated April 2, 1981]

A.9. Carbon Monoxide (CO) Emissions: CO emissions for each unit shall not exceed 0.575 lb/MMBtu and 99 lb/hr. [PSD-FL-071; Permit Nos. AC28-7377 and AC28-7291; BACT Determination dated April

2, 1981]. CO emissions for each unit shall also not exceed 23 ppmvd at 15% O_2 or shall be reduced by 70 percent or more. [Table 2c to Subpart ZZZZ of Part 63].

A.10. Sulfur Dioxide (SO_2) Emissions: SO_2 for each unit shall not exceed 2.67 lb/MMBtu and 460 lb/hr. Sulfur content in fuel shall not exceed 2.5% by weight. [PSD-FL-071; Permit Nos. AC28-7377 and AC28-7291; BACT Determination dated April 2, 1981]

Excess Emissions

See Subsection D. Common Conditions

Test Methods and Procedures

See Subsection D. Common Conditions for additional requirements.

A.11. Test Methods. Required tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
5	Method for Determining Particulate Emissions for Stationary Sources
6	Determination of Sulfur Dioxide Emissions from Stationary Sources
7E	Determination of Nitrogen Oxide Emissions from Stationary Sources
9	Visual Determination of the Opacity of Emissions from Stationary Sources
10	Determination of Carbon Monoxide Emissions from Stationary Sources {Note: The method shall be based on a continuous sampling train.}
20	Determination of Nitrogen Oxides, Sulfur Dioxide, and Diluent Emissions from Stationary Gas Turbines

The above methods are described in 40 CFR 60, Appendix A, and 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. [PSD-FL-071; Permit Nos. AC28-7377 and AC28-7291; BACT Determination dated April 2, 1981]

A.12. Annual Compliance Tests. During each federal fiscal year (October 1st to September 30th), each EU shall be tested to demonstrate compliance with the emissions standards for NO_X, SO_2, CO, VE, and PM (See Condition **A.17**.). [Rule 62-297.310(7), F.A.C.]

A.13. Compliance Tests Prior to Renewal. Except as provided for in condition TR7 of Appendix TR, Testing Requirements, these emissions units shall be tested for the following pollutants prior to obtaining a renewed operation permit: NO_X, SO_2, CO, VE, PM, and VOC. [Rule 62-297.310(7)(a)3., F.A.C.]

A.14. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

A.15. Visible Emissions. VE emissions testing shall be conducted in accordance with EPA Method 9 as published in 40 CFR-60, Appendix A, or State approved equivalent method. [PSD-FL-071; Permit Nos. AC28-7377 and AC28-729; BACT Determination dated April 2, 1981]

A.16. Nitrogen Oxide. NO_X emissions testing shall be conducted in accordance with EPA Method 7E or EPA Method 20 as published in 40 CFR-60, Appendix A, or State approved equivalent method. [PSD-FL-071; Permit Nos. AC28-7377 and AC28-729; BACT Determination dated April 2, 1981]

A.17. Particulate Matter. PM emissions testing shall be conducted in accordance with EPA Method 5 as published in 40 CFR-60, Appendix A, or State approved equivalent method. Annual compliance with the PM standard will be assumed if the VE emissions testing results, determined by EPA Method 9, are equal to or below 10 % opacity. If the opacity determined by EPA Method 9 is greater than 10% then an annual PM emissions test is required. [PSD-FL-071; Permit Nos. AC28-7377 and AC28-729; BACT Determination dated April 2, 1981]

A.18. Volatile Organic Compounds: Annual compliance with the VOC emission standard will be assumed provided the CO emission rate in Specific Condition **A.9**. is achieved; specific annual VOC compliance testing is not required. [PSD-FL-071; Permit Nos. AC28-7377 and AC28-729; BACT Determination dated April 2, 1981]

A.19. Carbon Monoxide: CO emissions testing shall be conducted in accordance with EPA Method 10 as published in 40 CFR-60, Appendix A, or State approved equivalent method. [PSD-FL-071; Permit Nos. AC28-7377 and AC28-729; BACT Determination dated April 2, 1981]

A.20. Sulfur Dioxide: SO_2 emissions testing shall be conducted in accordance with EPA Method 6 in 40 CFR 60, Appendix A, or State approved equivalent method. As an alternative, compliance with the sulfur dioxide emission standard may be calculated from analysis of sulfur in the fuel oil. [PSD-FL-071; Permit Nos. AC28-7377 and AC28-729; BACT Determination dated April 2, 1981]

A.21. Continuous Compliance Demonstration. The operating ranges for each parameter over which the engine complies with the NO_X emission limit shall be determined during the compliance test. Once established these parameters will be monitored to ensure proper operation and maintenance of the emission control techniques employed to meet the emission limit. [PSD-FL-071]

Recordkeeping and Reporting Requirements

See Subsection D. Common Conditions for additional requirements

A.22. Operating Parameter Recordkeeping**:** The following operating parameters shall be monitored on a daily basis. Daily monitoring requirements shall be accurate to within five (5) percent (%).

a. intake manifold temperature,
b. intake manifold pressure,
c. engine speed,
d. diesel rack position (full flow),
e. injector timing, and
f. gross heat of combustion value and percent sulfur content by weight for each fresh supply of fuel added to the fuel storage facility.
[PSD-FL-071; Permit Nos. AC28-7291 and AC28-7377 and BACT Determination dated April 2, 1981]

A.23. Continuous Compliance Recordkeeping**:** Records of the fuel analysis and the monitored engine parameters required in Specific Conditions **A.20** and **A.22.** shall be recorded and kept for public inspection for a minimum of two years after the data are recorded. **[**PSD-FL-071]

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

EU No.	Brief Description
004	Auxiliary Steam Boiler

Essential Potential to Emit (PTE) Parameters

B.1. Permitted Capacity. The maximum operation heat input rate shall not exceed the following

EU No.	MMBtu/hr Heat Input	Fuel Type
004	10.46	No. 2 Fuel Oil

[Rules 62-4.160(2), 62-204.800, 62-210.200(PTE), F.A.C.; and, Permit No. AC28-221558]

B.2. Emissions Unit Operating Rate Limitation After Testing. See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(2), F.A.C.]

B.3. Methods of Operation.

a. *Fuels:* The fuel that is allowed to be burned in this unit is No. 2 fuel oil with a sulfur content not to exceed 0.5% by weight sulfur content.
[Rule 62-213.410, F.A.C.; and, Permit No. AC28-221558]

B.4. Hours of Operation: This emissions unit may operate continuously (8760 hours/year). [Rule 62-210.200(PTE), F.A.C., Application No. AC28-221558]

B.5. 40 CFR 63 Subpart DDDDD: After January 30, 2016, this emissions unit must be in compliance with the emission limits, work practice standards, and operating limits in Subpart DDDDD of 40 CFR 63.

Emission Limitations and Standards

B.6. Visible Emissions: Visible emissions shall not exceed 20% opacity under normal operation except for one 6 minute period per hour during which opacity shall not exceed 27%. [Permit No. AC-28-221558; Rule 62-296.406(1), F.A.C.]

B.7. HCl: After January 30, 2016, HCl emissions shall not exceed 1.1E-03 lb per MMBtu of heat input. [Table 2 to Subpart DDDDD of Part 63].

B.8. Mercury: After January 30, 2016, mercury emissions shall not exceed 2.0E-06 lb per MMBtu of heat input. [Table 2 to Subpart DDDDD of Part 63].

B.9. CO: After January 30, 2016, CO emissions shall not exceed 130 ppm by volume on a dry basis corrected to 3 percent oxygen. [Table 2 to Subpart DDDDD of Part 63].

B.10. PM: After January 30, 2016, PM emissions shall not exceed 7.9E-03 lb per MMBtu of heat input. [Table 2 to Subpart DDDDD of Part 63].

Excess Emissions

See Subsection D. Common Conditions

Test Methods and Procedures

See Subsection D. Common Conditions for additional requirements.

B.11. Test Methods. Required tests shall be performed in accordance with the following reference methods.

Method	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources
26 or 26A	Hydrogen chloride, see Table 5 to Subpart DDDDD of Part 63 for additional details.
29, 30A or 30B	Mercury, see Table 5 to Subpart DDDDD of Part 63 for additional details.
10	CO, see Table 5 to Subpart DDDDD of Part 63 for additional details.
5 or 17	Filterable PM, see Table 5 to Subpart DDDDD of Part 63 for additional details.

The above methods are described in 40 CFR 60, Appendix A, and 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. [Permit No. AC28-221558 and Table 5 to Subpart DDDDD of Part 63]

B.12. Annual Compliance Tests. During each federal fiscal year (October 1st to September 30th), the EU shall be tested to demonstrate compliance with the emissions standards for SO_2 and VE. [Rule 62-297.310(7), F.A.C.]. After January 30, 2016, HCl, mercury, CO, and PM shall be added to this list.

B.13. Compliance Tests Prior to Renewal. Except as provided for in condition TR7 of Appendix TR, Testing Requirements, this emissions unit shall be tested for the following pollutants prior to obtaining a renewed operation permit: SO_2 , VE, HCl, mercury, CO, and PM. [Rule 62-297.310(7)(a)3., F.A.C., and Table 5 to Subpart DDDDD of Part 63].

B.14. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310(7), F.A.C.]

B.15. Visible Emissions. VE tests shall be conducted in accordance with EPA Method 9 as published in 40 CFR-60, Appendix A, or State approved equivalent method. Visible emissions tests are required to show continuing compliance with the visible emission standard for this unit. The test results must provide reasonable assurance that the unit is capable of compliance at the permitted maximum operating rate. [Rule 62-297.310(7), F.A.C.]

B.16. Sulfur Dioxide. Compliance with the sulfur dioxide emission standard may be calculated from analysis of sulfur in the fuel oil. [Rule 62-4.070(3), F.A.C.]

Recordkeeping and Reporting Requirements

See Subsection D. Common Conditions for additional requirements.

B.17. Detailed records of the oil consumption shall be maintained in lieu of an oil flow meter in the system. [Permit No. AC28-221558]

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

EU No.	Brief Description
005	600 kW (860 HP) Emergency Diesel Generating Unit.

EU005 is a Fairbanks Morse Model Number 38 F5-1/4 600 kW (860 HP) emergency generator diesel engine (Emergency Stationary RICE). To remain classified as an Emergency Stationary RICE, this unit must comply with the requirements specified in 40 CFR 63.6640(f). If the engine is not operated according to the requirements specified in 40 CFR 63.6640(f), then the engine will not be considered an emergency engine under 40 CFR 63, Subpart ZZZZ, and must meet all applicable requirements for non-emergency engines under Subpart ZZZZ.

Essential Potential to Emit (PTE) Parameters

C.1. Permitted Capacity. The maximum allowable heat input rate is as follows:

EU No.	MMBtu/hr Heat Input (HHV)	Fuel Type
005	6.02	No. 2 Fuel Oil

[Applicant's request in Title V permit renewal application received September 24, 2013].

C.2. Emissions Unit Operating Rate Limitation After Testing. See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(2), F.A.C.]

C.3. Methods of Operation.

a. *Fuels:* The unit is authorized to fire Number 2 fuel oil with a sulfur content of ≤ 0.5% by weight. Maximum fuel oil consumption shall not exceed 44 gallons per hour.

[Rule 62-213.410, F.A.C.; Applicant's request in Title V permit renewal application received September 24, 2013].

C.4. Hours of Operation: There is no time limit on the use of emergency stationary RICE in emergency situations. However; any operation of the unit other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1) through (4) of 40 CFR 63.6640(f), will result in automatic reclassification of the unit to a non-emergency engine triggering all applicable requirements for non-emergency engines under Subpart ZZZZ. [40 CFR 63.6640(f)].

Emission Limitations and Standards

Unless otherwise specified, the averaging time(s) for Specific Condition(s) **C.5.** is based on the specified averaging time of the applicable test method.

C.5. Visible Emissions (VE). VE for the unit shall not exceed 20% opacity.

Excess Emissions

See Subsection D. Common Conditions

Test Methods and Procedures

See Subsection D. Common Conditions for additional requirements.

C.6. Test Methods. Required tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C.

C.7. Annual Compliance Tests. During each federal fiscal year (October 1st to September 30th), the EU shall be tested to demonstrate compliance with the emissions standards for VE. [Rule 62-297.310(7), F.A.C.]

C.8. Compliance Tests Prior to Renewal. Except as provided for in condition TR7 of Appendix TR, Testing Requirements, these emissions units shall be tested for the following pollutants prior to obtaining a renewed operation permit: VE. [Rule 62-297.310(7)(a)3., F.A.C.]

C.9. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

C.10. Visible Emissions. VE emissions testing shall be conducted in accordance with EPA Method 9 as published in 40 CFR-60, Appendix A, or State approved equivalent method.

Recordkeeping and Reporting Requirements

See Subsection D. Common Conditions for additional requirements

C.11. Operating Parameter Recordkeeping**:** The following operating parameters shall be recorded whenever the unit is operated:

a. hours of operation,
b. purpose of operation, and
c. a running twelve month total of all hours operated in non-emergency situations.
[62-4.070(3)]

C.12. Continuous Compliance Recordkeeping**:** Records of the hours of operation required in Specific Condition **C.11** shall be recorded and be available for inspection for a minimum of five years after the data are recorded. [62-4.070(3)].

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

EU No.	Brief Description
001	Slow Speed Diesel Engine Generator
002	Slow Speed Diesel Engine Generator
004	Auxiliary Steam Boiler
005	600 kW (860 HP) Emergency Diesel Generating Unit.

Excess Emissions

Rule 62-210.700 (Excess Emissions), F.A.C. cannot vary any requirement of an NSPS, NESHAP or Acid Rain program provision.

D.1. Excess Emissions Allowed. Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted provided:

a. Best operational practices to minimize emissions are adhered to, and

b. The duration of excess emissions shall be minimized but in no case exceed two hours in any 24-hour period unless specifically authorized by the Department for longer duration.
For purposes of the reports required under this permit, excess emissions for this condition are defined as any calculated average emission rate which exceeds the applicable emission limitation(s) specified in the conditions above. [Rules 62-210.700(1) & (5) and 62-212.400(PSD), F.A.C.]

D.2. Excess Emissions Prohibited: Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.]

D.3. Excess Emissions Notification**:** In the case of excess emissions resulting from malfunctions, each owner or operator shall notify the Department's South District office in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department or its agent. [Rule 62-210.700(6), F.A.C.]

Test Methods and Compliance Procedures

D.4. Fuel Oil Analysis

a. Distillate oil means fuel oil that complies with the specifications for fuel oil numbers 1 or 2, as defined by the American Society for Testing and Materials in ASTM D396-78, ``Standard Specification for Fuel Oils" (incorporated by reference--see Sec. 60.17). Sec. 60.41c Definitions.

b. Residual oil means crude oil, fuel oil that does not comply with the specifications under the definition of distillate oil, and all fuel oil numbers 4, 5, and 6, as defined by the American Society for Testing and Materials in ASTM D396-78, ``Standard Specification for Fuel Oils" (incorporated by reference--see Sec. 60.17).

c. The sulfur content of all fuel oils shall be determined by either ASTM Method D 129-91, or D 2622-94, or D 4294-90, or a comparable method approved by the Department.

[Rule 62-213.440(1)(b)1.b, F.A.C.; Permit No. 05500018-001-AV]

Recordkeeping and Notification Requirements

D.5. Fuel Oil Recordkeeping: The owner or operator shall maintain daily records, in a permanent form suitable for inspection, documenting the sulfur content of all fuels burned. A monthly fuel oil composite sample shall be prepared from daily fuel oil samples. The records shall contain, as a minimum, for each monthly composite sample, the sulfur content of the fuels, the amount of each fuel burned, Btu content, and density

of the fuel. The records shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the Department's South District office to determine if the test was properly conducted and the test results properly computed. All recorded data shall be maintained on file for a period of 5 years. Quarterly reports shall be submitted for those quarters in which the facility is in service. The reports shall be sent to the Department within 30 days of the end of the quarter giving monthly summaries of the following data:

a. Pounds of sulfur dioxide per million Btu of heat input based on a monthly average.

b. The amount of each type of fuel burned for the reporting period.
[Permit No. 05500018-001-AV; Rule 62-4.070(3) F.A.C.; Applicant's request received December 26, 2003]

D.6. Records Retention: All measurements, records, and other data required by this permit shall be documented in a permanent, legible format and retained for at least five (5) years following the date on which such measurements, records, or data are recorded. Records shall be made available to the Department upon request. [Permit No. 05500018-001-AV; Rules 62-4.160(14) and 62-213.440(1)(b)2, F.A.C.]

D.7. Notification of Startup: At the time of this permit renewal, the J.H. Phillips Station was in long-term reserve shutdown status and had been in long-term reserve shutdown status since September 2009. The permittee shall notify the Department in writing of the intent to start up, a minimum of 60 days prior to the intended startup date. The notification shall include information as to the startup date, anticipated emission rates or pollutants released, changes to processes or control devices which will result in changes to emission rates, and any other conditions which may differ from the valid outstanding operation permit. The notification shall also demonstrate that such startup would not constitute any modification or reconstruction pursuant to Chapter 62-210, F.A.C., or any federal regulation adopted by reference at Rule 62-204.800, F.A.C. If, due to an emergency, a startup date is not known 60 days prior thereto, the permittee shall notify the Department as soon as possible after the date of such startup is ascertained. [62-210.300(5), 62-210.300(2)(a)4.].

D.8. Allowable Emission Offset Prohibition: At the time of this permit renewal, the J.H. Phillips Station was in long-term reserve shutdown status and had been in long-term reserve shutdown status since September 2009. The permittee is prohibited from providing the allowable emission permitted by this renewed permit as an emissions offset to any other person under Rule 62-212.500, F.A.C. [62-210.300(2)(a)3.b.(II)].

REFERENCED ATTACHMENTS.

The Following Attachments Are Included for Applicant Convenience:

Appendix A, Glossary.
Appendix I, List of Insignificant Emissions Units and/or Activities.
Appendix RR, Facility-wide Reporting Requirements.
Appendix TR, Facility-wide Testing Requirements.
Appendix TV, Title V General Conditions.
Appendix ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.
Appendix DDDDD, National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters.