Title V Air Operation Permit Renewal
Permit No. 0550018-005-AV

## APPLICANT

The applicant for this project is Tampa Electric Company. The applicant's responsible official and mailing address are: Ms. Karen Sheffield, Director J.H. Phillips Stations, Tampa Electric Company, P.O. Box 111, Tampa, FL 33601-0111.

## FACILITY DESCRIPTION

The applicant operates the J.H. Phillips Station, which is located at 7301 Haywood Taylor Blvd., Sebring, Highlands County.

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. The unit is a Fairbanks Morse Model Number 38 F5-1/4 (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.

This facility is a major source of HAPs.

If returned to operation, the slow speed diesel generators must 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 must 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.

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

## PROJECT DESCRIPTION

The purpose of this permitting project is to renew the existing Title V air operation permit for the above referenced facility.

## PROCESSING SCHEDULE AND RELATED DOCUMENTS

Renewed Title V Air Operation Permit Renewal issued **May 8, 2009**
Application for a Title V Air Operation Permit Renewal received **September 23, 2013**
Notice of Intent to Issue Air Permit issued **December 19, 2013**

## PRIMARY REGULATORY REQUIREMENTS

Title III: The facility is identified as a major source of hazardous air pollutants (HAP).

Title IV: The facility does not operate units subject to the acid rain provisions of the Clean Air Act.

Title V: The facility is a Title V major source of air pollution in accordance with Chapter 62-213, Florida Administrative Code (F.A.C.).

PSD: The facility is a Prevention of Significant Deterioration (PSD)-major source of air pollution in accordance with Rule 62-212.400, F.A.C.

NSPS: The facility does not operate units subject to the New Source Performance Standards (NSPS) of 40 Code of Federal Regulations (CFR) 60.

NESHAP: The facility does not operate units subject to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) of 40 CFR 63.

CAIR: The facility is not subject to the Clean Air Interstate Rule (CAIR) set forth in Rule 62-296.470, F.A.C.

CAM: Compliance Assurance Monitoring (CAM) does not apply to any of the units at the facility. The facility does not have any pollution control equipment.

## PROJECT REVIEW

Changes that were made as part of this renewal were adding the emergency diesel generator as a regulated unit, adding applicable requirements from 40 CFR 63 Subparts ZZZZ and DDDDD, and adding a notification requirement for restarting the facility.

## CONCLUSION

This project renews Title V air operation permit No. 0550018-004-AV, which was issued on May 8. 2009. This Title V air operation permit renewal is issued under the provisions of Chapter 403, Florida Statues (F.S.), and Chapters 62-4, 62-210, 62-213 F.A.C.