Florida Department of Environmental Protection
Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Rick Scott
Governor

Jennifer Carroll
Lt. Governor

Herschel T. Vinyard Jr.
Secretary

**PERMITTEE**

Orlando Utilities Commission
Reliable Plaza, 100 West Anderson Street
Orlando, Florida 32801

Air Permit No. 0090008-008-AC
Minor Air Construction Permit Revision
Indian River Plant
Removal of Fuel Oil Firing, Units 1-3

Authorized Representative:
Mr. Jan C Aspuru, Vice President of Power Resources

**PROJECT**

This is the final air construction permit, which removes fuel oil firing for Units 1, 2 & 3 as an allowable method of operation. The proposed work will be conducted at the existing Indian River Plant, which is an electrical generating power plant predominantly fired with natural gas, categorized under Standard Industrial Classification No. 4911. The existing facility is located in Brevard County at US 1 and Kings Highway in Titusville, Florida. The UTM coordinates are Zone 17, 521.3 East and 3,151.7 North.

This final permit is organized into the following sections: Section 1 (General Information) and Section 2 (Permit Revisions).

**STATEMENT OF BASIS**

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.). 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. A copy of this permit revision shall be filed with the referenced permit and shall become part of the permit.

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 Tallahassee, Florida

On Behalf of:

Digitally signed by
Jonathan Holtom, P.E., CPM
Date: 2012.08.22 14:27:14
-04'00'

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

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 the date indicated below to the following persons:

Mr. Jan C. Aspuru, Vice President of Power Resources, OUC: jaspuru@ouc.com
Mr. Michael Kyhos, Senior Environmental Engineer, OUC: mkyhos@ouc.com
Mr. Scott H. Osbourn, P.E., Golder Associates: sosbourn@golder.com
Ms. Caroline Shine, Air Program Administrator, Central District Office: caroline.shine@dep.state.fl.us.
Ms. Heather Ceron, US EPA Region 4: ceron.heather@epa.gov
Ms. Katy Forney, US EPA Region 4: forney.kathleen@epa.gov
Ms. Barbara Friday, DEP OPC: barbara.friday@dep.state.fl.us
Ms. Lynn Scearce, DEP OPC: lynn.scearce@dep.state.fl.us

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.

Lynn Scearce
2012.08.22 14:52:46 -04'00'

## FACILITY DESCRIPTION

The existing facility is an electrical generation plant, which consists primarily of four combustion turbines. This facility also consists of three steam generating boilers and a lime storage silo that were recently purchased from the adjacent facility formerly owned by GenOn. Emissions units 001, 002 and 003 are three Combustion Engineering steam generators (boilers). The boilers may currently fire a variable combination of natural gas, propane, No. 6 and No. 2 fuel oils, and on-specification used oil from facility operations. The three steam generating boilers are only subject to the State of Florida emission standards. The four combustion turbines are regulated pursuant to new source performance standards (NSPS) and prevention of significant deterioration (PSD) requirements.

## FACILITY REGULATORY CLASSIFICATION

- The facility is a major source of hazardous air pollutants (HAP).
- The facility operates units subject to the acid rain provisions of the Clean Air Act (CAA).
- The facility is a Title V major source of air pollution in accordance with Chapter 62-213, F.A.C.
- The facility is a major stationary source in accordance with Rule 62-212.400(PSD), F.A.C.

## PROPOSED PROJECT

The requested revision is to remove the authority to fire all fuel oils in Units 1, 2 & 3 as an allowable method of operation and to limit the sulfur content of the gas to 2 grains per 100 standard cubic feet.

The following permit conditions are revised as indicated. ~~Strikethrough~~ is used to denote the deletion of text. Double-underlines are used to denote the addition of text. All changes are emphasized with yellow highlight.

Affected Emissions Units: EU 001, 002 & 003, Boiler Nos. 1, 2 & 3.

**1.** Prior Permits. This permit does not authorize any new construction, nor any increases in capacity or actual pollutant emissions to the atmosphere. Except as specified below, the facility remains subject to all of the rules and requirements contained in all previously issued air construction permits for these emissions units. [Rule 62-4.070, F.A.C.]

**2.** Method of Operation – Fuels. The only fuels allowed to be fired in Boilers 1, 2 & 3 are natural gas and propane gas containing a maximum of 2 grains of sulfur per 100 standard cubic feet. Compliance with this limitation shall be demonstrated through information provided by the fuel vendor(s). This limitation supersedes all previously issued permits or established conditions (whether issued to OUC, GenOn or RRI Energy Florida, LLC) that allowed the firing of No. 2 fuel oil, No. 6 fuel oil and on-specification used oil in these boilers. [Application No. 0090008-008-AC]

**3.** To clarify that fuel oil is no longer allowed to be fired in these boilers, Condition 1 of permit No. 0090196-010-AC (issued to RRI Energy Florida, LLC on December 11, 2009) is changed as follows:

1. Permitted Capacity. Based on a4-hour rolling average, the maximum heat input rates are:

| Unit No. | Heat Input Rates (MMBtu/hour) | |
|---|---|---|
| | Gas | ~~Oil~~ |
| 1 | 865.5 | ~~832.2~~ |
| 2 | 2,248.7 | ~~2,016.5~~ |
| 3 | 3,208.5 | ~~3,048.8~~ |

The heat input rates shall be determined by fuel flow rates and the higher heating value of the fuel. [Application Nos. 0090196-010-AC & 0090008-008-AC; and Rules 62-4.070(3), 62-4.160(2), 62-204.800, 62-210.20 (PTE), and 62-296.405, F.A.C.]

4. Visible Emissions. Visible emissions from the firing of gaseous fuels in Boilers 1, 2 and 3 shall not exceed 20 percent opacity. [Rules 62-4.070(3) & 62-296.320(4)(b)1., F.A.C.]