



JR'S

Department of Environmental Protection

Lawton Chiles
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Virginia B. Wetherell
Secretary

NOTICE OF PERMIT

In the Matter of an
Application for Permit by:

Mr. Patrick Ho, P.E.
Manager of Environmental Planning
Tampa Electric Company
P.O. Box 111
Tampa, FL 33601-0111 /

FINAL Permit Amendment No. AO29-179911(B)
AIRS I.D. No. 0570039-001-AC
Big Bend Unit 3

Enclosed is the FINAL Air Operation Permit Amendment numbered AO29-179911(B) allowing the firing of a blend of coal and petroleum coke at Big Bend Unit 3 located on Big Bend Road, near Ruskin, Hillsborough County, issued pursuant to Chapter 403, Florida Statutes (F.S.).

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 Tallahassee, Florida.

Clair H. Fancy, P.E., Chief,
Bureau of Air Regulation

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF FINAL PERMIT AMENDMENT(including the FINAL permit amendment) was sent by certified mail (*) and copies were mailed by U.S. Mail before the close of business on 9-30-96 to the person(s) listed:

Mr. Patrick Ho, P.E., TECO *
Mr. William Adam, ABCA *
Mr. Bill Thomas, SWD
Mr. Jerry Campbell, EPCHC

Clerk Stamp

FILING AND ACKNOWLEDGMENT
FILED, on this date, pursuant to
§120.52(11), Florida Statutes, with the
designated Department Clerk, receipt of
which is hereby acknowledged.

Keri Joba
(Clerk)

9-30-96
(Date)



Department of Environmental Protection

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September 30, 1996

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Patrick Ho, P.E.
Manager of Environmental Planning
Tampa Electric Company
P.O. Box 111
Tampa, Florida 33601-0111

Dear Mr. Ho:

Re: Firing of Coal/Petcoke Blend in Big Bend Unit 3
Amendment of Permit AO29-179911
AIRS I.D. No. 0570039-001-AC

The Department hereby amends the subject Air Operation Permit allowing the firing of a blend of coal and petroleum coke. The existing Air Operation Permit, previously amended on May 12, 1995, is amended as follows:

DESCRIPTION

Change From:

For the operation of a 4115 MMBTU/hr coal fired steam generator designated as Unit No. 3 at the Big Bend Station. This "wet" bottom boiler was manufactured by Riley-Stoker and is an opposed-fired turbo boiler. The generator has a nameplate capacity of 445.5 MW. Operation of this unit may include diverting all of the flue gas into the existing Big Bend Unit No. 4 flue gas desulfurization (FGD) system. Diversion of the flue gas stream will allow the emissions from this unit to be vented to the Unit 4 FGD system for emission reduction.

Particulate matter emissions generated during the operation of the unit are controlled by a dry electrostatic precipitator manufactured by Research-Cottrell, Inc. Sulfur dioxide emissions will be controlled by diverting the flue gas emissions to the Unit No. 4 FGD system. Sulfur dioxide emissions that are generated and not diverted through the Unit No. 4 FGD system are uncontrolled.

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Change To:

For the operation of a 4115 MMBTU/hr steam generator designated as Unit No. 3 at the Big Bend Station. This "wet" bottom boiler was manufactured by Riley-Stoker and is an opposed-fired turbo boiler. The generator has a nameplate capacity of 445.5 MW. This unit may be fired on coal or a coal/petroleum coke blend consisting of a maximum of 20.0 percent petroleum coke by weight. Operation of this unit may include diverting all of the flue gas into the existing Big Bend Unit No. 4 flue gas desulfurization (FGD) system. Diversion of the flue gas stream will allow the emissions from this unit to be vented to the Unit 4 FGD system for emission reduction.

Particulate matter emissions generated during the operation of the unit are controlled by a dry electrostatic precipitator manufactured by Research-Cottrell, Inc. Sulfur dioxide emissions will be controlled by diverting the flue gas emissions to the Unit No. 4 FGD system. Sulfur dioxide emissions that are generated and not diverted through the Unit No. 4 FGD system are uncontrolled.

New Specific Condition 21:

Fuels fired in Unit No. 3 shall consist of coal or a coal/petroleum coke blend containing a maximum of 20.0% petroleum coke by weight. The sulfur content of the petroleum coke shall not exceed 6.0 % by weight (dry basis). Vanadium content of the mineral ash from the petroleum coke fired shall not exceed 35.0% by weight (ignited basis). [Rule 62-4.070(3), F.A.C.]

New Specific Condition 22:

Gravimetric instrument data verifying that the 20.0% maximum petroleum coke content by weight has not been exceeded shall be maintained for two years and submitted to the Department and the Environmental Protection Commission of Hillsborough County (EPCHC) with each annual operating report. Also to be maintained and available for inspection shall be a record of operation showing the date, fuel used, mode of operation (integrated/non-integrated), and the duration of all startups, shutdowns and malfunctions. [Rule 62-4.070(3), F.A.C.]

New Specific Condition 23:

At all times while firing any blend of coal and petroleum coke, Unit No. 3 shall operate only in the integrated mode as described in Specific Condition No. 4 except during startups, shutdowns and/or malfunctions during all of which best operational practices shall be

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employed including the cessation of petroleum coke bunkering. The permittee shall maintain and submit to the Department and the EPCHC on an annual basis for a period of 5 years from the date the unit begins firing petroleum coke, data demonstrating that the operational change did not result in an emissions increase.
[Rule 62-4.070(3), F.A.C.]

A copy of this amendment letter shall be attached to and shall become a part of Air Operation Permit A029-179911.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



fr Howard L. Rhodes, Director
Division of Air Resources
Management