

BEFORE THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

In Re: Tampa Electric Company)	
Big Bend Station Unit 4)	
Modification of Conditions)	DER Case No. PA 79-12C&D
of Certification PA 79-12)	OGC Case No. 94-0914
Hillsborough County, Florida)	
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FINAL ORDER MODIFYING
CONDITIONS OF CERTIFICATION

On August 17, 1981, the Governor and Cabinet, sitting as the Siting Board, issued a final order approving certification for Tampa Electric Company's (TECO's) Big Bend Station Unit 4. That certification order approved the construction and operation of a 486 MW (gross) coal-fired facility and associated facilities located in Hillsborough County, Florida.

On January 13, 1995, TECO filed a request to amend the conditions of certification pursuant to Section 403.516(1)(b). Florida Statutes. TECO requested that the condition be modified to approve several changes in the project design and operation of the coal yard.

Copies of TECO's proposed modification were distributed to all parties to the certification proceeding and made available for public review in June, 1995. On June 30, 1995, a Notice of Intent to Issue Proposed Modification of Power Plant Certification was published in the Florida Administrative Weekly. As of June 27, 1995, all parties to the original proceeding had received copies of the notice. The notice specified that a hearing would be held if a party to the original certification hearing objected within 45 days from receipt of the proposed notice of modification or if a person whose substantial interests would be affected by the proposed modification objected in

writing within 30 days after issuance of the public notice. One objection to the proposed modifications as noticed was received by the Department, but it was denied as untimely. Accordingly, in the absence of any timely objection,

IT IS ORDERED:

The proposed changes to TECO Big Bend Station as described in the January 13, 1995, requests for modification are APPROVED. Pursuant to Section 403.516(1)(b), F.S., the conditions of certification for the TECO Big Bend Station are MODIFIED as follows:

Condition I.A.

1. Based on a maximum heat input of 4,330 million BTU per hour, stack emissions from Big Bend Unit 4 shall not exceed the following when burning coal or a coal/petroleum coke blend:

a. - d. no change.

2. no change

3.

a. ~~The permittee shall not cause to be discharged into the atmosphere Pursuant to Chapter 1-3.62 Rules of the Environmental Protection Commission of Hillsborough County, visible emissions shall not exceed 20% opacity for any unconfined emission unit in the fuel yard. Unconfined emissions as defined by Rule 62-296.200, F.A.C., shall include the static fuel piles, etc. coal fuel processing or conveying equipment, coal fuel storage system, coal fuel transfer and loading system processing coal, visible emissions which exceed 20 percent opacity.~~

Pursuant to Rule 62.296.711(2), F.A.C., visible emissions shall not exceed 5 percent opacity for the remaining emission units in the fuel yard. Initial and subsequent visible emissions compliance tests shall be demonstrated using EPA Reference Method 9, 40 CFR Part 60, Appendix A, Visual

Determination of Fugitive Emissions from Material Sources (July 1, 1993 version). All testing shall be done within 90 days of completing reconfiguration of the fuel yard, and prior notification of testing shall be submitted in writing at least 15 days beforehand to the EPC of Hillsborough County.

Particulate emissions shall be controlled by use of control devices.

b. (No change)

c. The ~~coal~~ fuel pile operations are subject to Rule 6217-296.310(3), F.A.C., Unconfined Emissions of Particulate Matter. Reasonable precautions to minimize unconfined particulate matter shall be in accordance with Rule 6217-296.310(3)(c), F.A.C.; and, may include, but shall not be limited to, the coating of roads and construction sites used by contractors and regrassing or watering areas of disturbed ~~coal~~ fuel.

d. From each ~~coal~~ fuel transloading of source/emission point (i.e., off-loading and loading of ~~coal~~ fuel), the maximum annual transloading transfer of ~~coal~~ fuel shall not exceed 4,000 tons, 24-hour rolling average.

e. From each ~~coal~~ fuel transloading source/emissions point (i.e., off-loading and loading of ~~coal~~ fuel), the maximum annual transloading transfer of ~~coal~~ fuel shall not exceed 1,428,030 tons.

f. The number of railcars and trucks and the quantity of ~~coal~~ fuel loaded by each ~~coal~~ fuel transloading source/emission point (i.e., off-loading and loading of ~~coal~~ fuel) shall be recorded, maintained, and kept on file for a minimum of two years. The annual quantity of ~~coal~~ fuel loaded by each ~~coal~~ fuel transloading source/emission shall be submitted in Annual Operation Report (AOR) to the Environmental Protection Commission of Hillsborough County by March 1 of each year for the previous year's operation.

4. - 11. no change

12. Fuels fired shall consist of coal or a coal/petroleum coke blend containing a maximum of 20.0 percent petroleum coke by weight. The sulfur content of the petroleum coke shall not exceed 6.0 percent by weight (dry basis). Vanadium content of the mineral ash from the petroleum coke fired shall not exceed 35.0 percent by weight (ignited basis).

13. Gravimetric instrument data verifying that the 20.0 percent maximum petroleum coke by weight basis has not been exceeded shall be maintained and submitted to the Department's Southwest District Office and the Environmental Protection Commission of Hillsborough County (EPCHC) with each annual operating report.

14. Pursuant to Rule 62-212.200(2)(d), F.A.C., the actual emissions of the No. 4 Unit shall equal the representative actual emissions as defined in 40 CFR 52.21(b)(33). The Permittee shall maintain and submit to the Department and EPCHC on an annual basis for a period of five years from the date the unit begins firing petroleum coke, data demonstrating that the operational change did not result in an emissions increase.

Any party to this Notice has the right to seek judicial review of the Order Pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the clerk of the Department of Environmental Protection in the Office of General, 3900 Commonwealth Blvd., 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 of Appeal must be filed within 30 days from the date that the Final Order is filed with the Department of Environmental Protection.

DONE AND ENTERED this 15th day of September, 1995 in Tallahassee, Florida.

STATE OF FLORIDA, DEPARTMENT
OF ENVIRONMENTAL PROTECTION

FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to S120.52
Florida Statutes, with the designated
Department Clerk, receipt of which
is hereby acknowledged.

Rebecca Pina 9-18-95
Clerk Date

fn Virginia B. Wetherell
VIRGINIA B. WETHERELL
SECRETARY
3900 Commonwealth Boulevard
Tallahassee, FL 32399-3000

CERTIFICATE OF SERVICE

I DO HEREBY certify that a true and correct copy of the foregoing has been sent by U.S. Mail to the following listed persons:

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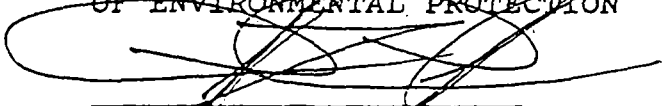
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Tampa Electric Company
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Tampa, FL 33601-0111

this 18th day of September, 1995.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


CHARLES T. "CHIP" COLLETTE
Assistant General Counsel
3900 Commonwealth Blvd.
Tallahassee FL 32399-3000

State of Florida Department of Environmental Regulation
Tampa Electric Company
Big Bend Unit 4
PA 79-12


CONDITIONS OF CERTIFICATION (Revised 6-2-81)

I. Air

The construction and operation of Big Bend Unit 4 at the Tampa steam electric power plant site shall be in accordance with all applicable provisions of Chapters 17-2, 17-4, 17-5 and 17-7, Florida Administrative Code. In addition to the foregoing, the permittee shall comply with the following conditions of certification:

A. Emission Limitations

1. Based on a maximum heat input of 4,330 million BTU per hour, stack emissions from Big Bend Unit 4 shall not exceed the following when burning coal:
 - a. SO₂ - 1.2 lb. per million BTU heat input, maximum two hour average, 0.84 lb/MMBtu on a 30-day rolling average.
 - b. NO_x - 0.60 lb. per million BTU heat input.
 - c. Particulates - 0.03 lb. per million BTU heat input.
 - d. Visible emissions - 20% (6-minute average), except one 6-minute period per hour of not more than 27% opacity.
2. The height of the boiler exhaust stack for Unit 4 shall not be less than 490 ft. above grade.
3. Particulate emissions from the coal handling facilities:
 - a. The permittee shall not cause to be discharged into the atmosphere from any coal processing or conveying equipment, coal storage system or coal transfer and loading system processing coal, visible emissions which exceed 20 percent opacity. Particulate emissions shall be controlled by use of control devices.
 - b. The permittee must submit to the Department within ten (10) working days after it becomes available, copies of technical data pertaining to the selected particulate emissions control for the coal handling facility. These data should include, but not be limited to, guaranteed efficiency and emission rates, and major design parameters such as air/cloth

TO: Buck Oven
FROM: A.A. Linero 
DATE: June 20, 1995
SUBJECT: TEC Big Bend Unit 4 - Petcoke Modification

Following are the proposed changes to the Conditions of Certification consistent with the PSD draft permit modification and Public Notice of Intent To Issue related to the Petcoke project for Big Bend Unit 4:

Revised Condition I. A. 1.

Based on a maximum heat input of 4,330 million BTU per hour, stack emissions from Big Bend Unit 4 shall not exceed the following when burning coal or coal/petroleum coke blend:

New Condition I. A. 12.

Fuels fired shall consist of coal or a coal/petroleum coke blend containing a maximum of 20.0 percent petroleum coke by weight. The sulfur content of the petroleum coke shall not exceed 6.0 percent by weight (dry basis). Vanadium content of the mineral ash from the petroleum coke fired shall not exceed 35.0 percent by weight (ignited Basis).

New Condition I. A. 13.

Gravimetric instrument data verifying that the 20.0 percent maximum petroleum coke content by weight basis has not been exceeded shall be maintained and submitted to the Department and the Environmental Protection Commission of Hillsborough County (EPCHC) with each annual operating report.

New Condition I. A. 14.

Pursuant to Rule 62-212.200(2)(d), Florida Administrative Code (FAC), the actual emissions of the No. 4 unit shall equal the representative actual emissions as defined in 40 CFR 52.21(b)(33). The permittee shall maintain and submit to the Department and 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.

Note that the above change in Condition I. A. 1. implies that the same emission limits apply when burning coal/petcoke as apply when burning only coal. This does not change any emission limits given in the original or any revised versions of the EPA - issued Big Bend Unit 4 PSD permit or BACT Determination.

The above changes relate only to the Petcoke project and do not include those made for the Unit 3 and 4 Integration Project or the Coal Yard Project, both of which will result in changes to the Conditions of Certification.

AAL/aal/l

cc: Clair Fancy
John Reynolds
File PSD-FL-040 TEC Big Bend Unit 4