## AUSLEY & MCMULLEN

ATTORNEYS AND COUNSELORS AT LAW

227 SOUTH CALHOUN STREET P.O. BOX 391 (ZIP 32302) TALLAHASSEE, FLORIDA 32301 (850) 224-9|15 FAX (850) 222-7560

January 27, 2000



### BY HAND DELIVERY

Ms. Blanca S. Bayo, Director Division of Records and Reporting Florida Public Service Commission 2540 Shumard Oak Boulevard Tallahassee, Florida 32399-0850

> Re: Tampa Electric Company's Petition for Approval of its Plan to Bring its Generating Units into Compliance with the Clean Air Act; Docket No. 992014-EI

Dear Ms. Bayo:

Enclosed for filing in the above-styled proceeding on behalf of Tampa Electric Company are the original and fifteen (15) copies of each of the following:

- Prepared Direct Testimony of John B. Ramil 01210-00 1.
- Prepared Direct Testimony and Exhibit of Gregory M. Nelson 21211-00 2.
- Prepared Direct Testimony and Exhibit of Charles R. Black 3.
- Prepared Direct Testimony and Exhibit of Mark D. Ward Olara Olara 4.
- Prepared Direct Testimony and Exhibit of Howard T. Bryant 5.
- Prepared Direct Testimony and Exhibit of Gregory J. Ramon 6.
- Prepared Direct Testimony and Exhibit Mark J. Hornick 7.
- Prepared Direct Testimony of Stephen L. Thumb 8.
- Prepared Direct Testimony of Thomas L. Hernandez 0(2(7-00) 9.

Please acknowledge receipt and filing of the above by stamping the duplicate copy of this letter and returning the same to this writer.

Thank you for your assistance in connection with this matter.

Sincerely,

James D. Beasley

JDB/bjd **Enclosures** 

cc: All Parties of Record (w/encls.)

BUREAU OF RECORDS

01210-01

#### **CERTIFICATE OF SERVICE**

I HEREBY CERTIFY that a true and correct copy of the foregoing has been furnished by

hand delivery (\*) or U. S. Mail this 27th day of January, 2000 to the following:

Ms. Grace A. Jaye\*
Legal Services
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

Mr. Jack Shreve Mr. Roger Howe Office of Public Counsel 111 West Madison Street, Rm. 812 Tallahassee, FL 32399-1400

Joseph A. McGlothlin
Ms. Vicki Kaufman
McWhirter Reeves McGlothlin Davidson
Decker Kaufman Arnold & Steen, P.A.
117 South Gadsden Street
Tallahassee, FL 32301

Michael G. Briggs, Senior Counsel Reliant Energy Power Generation, Inc. Post Office Box 61867 Houston, Texas 77208-1867 Mr. John W. McWhirter, Jr.
McWhirter Reeves McGlothlin Davidson
Decker Kaufman Arnold & Steen, P.A.
400 North Tampa Street, Suite 2450
Tampa, FL 33601-3350

Ms. Gail Kamaras Ms. Debra Swim Legal Environmental Assistance Fdn. 1114 Thomasville Road, Suite E Tallahassee, FL 32303

TORNEY

**ORIGINAL** 



# TAMPA ELECTRIC COMPANY

**BEFORE THE** 

FLORIDA PUBLIC SERVICE COMMISSION

**DOCKET NO. 992014-EI** 

TESTIMONY
OF
JOHN B. RAMIL

DOCUMENT HUMBER-DATE



#### BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION 1 PREPARED DIRECT TESTIMONY 2 3 OF JOHN B. RAMIL 4 5 6 Q. Please state your name, address and occupation. 7 8 A. My name is John B. Ramil. My business address is 702 N. 9 Franklin Street, Tampa, Florida 33602. I am President of Tampa Electric Company ("Tampa Electric" or 10 "company"). 11 12 Please provide a brief outline of Q. 13 your educational background and business experience. 14 15 I graduated from the University of South Florida in June 16 A. of 1978 with a Bachelor of Science degree in Engineering 17 and I am a candidate to recover a Master of Science in 18 Engineering degree in the spring of 2000. 19 I am a registered Professional Engineer in the State of Florida. 20 I joined Tampa Electric in March of 1976 as a cooperative 21 education student and began full-time employment with the 22 company in June of 1978. I was responsible for various 23 engineering assignments prior 24 to being promoted Manager, Environmental Planning in 1982.

25

1

From 1982 until April 1994 I served in a series of management assignments including Manager, Generation Planning; Manager, Fuel Planning and Operations; Assistant Director, Power Resource Planning; and Director, Resource Planning. In April 1994, I was promoted to Vice President, Energy Services and responsible for the company's customer service, services, bulk power and planning functions. In December 1997 I was promoted to Vice President and Chief Financial Officer of TECO Energy. Since March 1998, I have served as President of Tampa Electric.

13

14

15

10

11

12

Q. Have you previously testified before the Florida Public Service Commission ("Commission")?

16

17

18

19

Yes, I have testified before this Commission on behalf of Tampa Electric in a number of proceedings beginning in 1987.

20

21

What is the purpose of your testimony? Q.

22

23

24

25

Α. The purpose of my testimony is to provide an overview of Tampa Electric's Comprehensive Clean Air Act Compliance Plan ("Compliance Plan") which includes a requirement to

comply with the Consent Final Judgement ("CFJ") entered into between Tampa Electric and the Florida Department of Environmental Protection ("DEP") in December 1999. will describe the conversion of Tampa Electric's Gannon Station from coal to natural gas, a significant aspect of CFJ. I will clarify what Tampa Electric the is requesting of the Commission in this proceeding. will outline company's the position on the appropriateness of its Compliance Plan, which will be presented in detail by various witnesses in this proceeding.

12

13

1

2

3

6

7

8

9

10

11

Please describe Tampa Electric's system.

14

15

16

17

18

19

20

21

22

23

24

25

Electric A. Tampa is engaged in the generation, transmission, distribution, purchase, sale and of electric energy. Tampa Electric serves over retail customers in its service area of approximately 2,000 square miles in West Central Florida, including Hillsborough and parts of Pasco, Pinellas, and counties, with a population of over one million people. Electric's coal-fired units produced about percent of its system energy requirements in 1998 and Total 1998 energy sales including wholesale sales were 18,513 GWh.

1

The company has six electric generating plants, five of which are currently in operation, with a total net winter generating capability of 3,615 MW, consisting of fossil steam units, combustion turbine peaking units, diesel units and an integrated gasification combined cycle unit. The six plants are Big Bend, Gannon, Hookers Point, Polk, Phillips, and Dinner Lake. Tampa Electric also has purchased power agreements totaling 150 MW.

10

11

12

9

Q. Are Tampa Electric's generating plants subject to environmental regulations?

13

14

15

A. Yes. Tampa Electric is required to meet federal, state and local environmental regulations and requirements.

16

17

18

Q. How has Tampa Electric assured compliance with these environmental regulations?

19

20

21

22

23

24

25

Tampa Electric's Environmental Planning Department A. is responsible for ensuring the company is meeting the requirements of applicable environmental laws and This includes compliance with the federal regulations. Clean Air Act. Electric's Tampa Compliance Plan describes these requirements, together with the actions

the company has taken to meet the requirements.

Q. Has Tampa Electric made any recent revisions to its

Compliance Plan?

A. Yes, the company has made changes to its Compliance Plan based upon requirements imposed by the DEP and reflected in the CFJ which requires Tampa Electric to undertake substantial measures to reduce emissions in its service area and have favorable impacts in surrounding areas.

Q. Please provide an overview of the major features of Tampa Electric's environmental requirements contained in the CFJ.

A. The CFJ requires Tampa Electric to remain in compliance with applicable environmental emissions limitations and resolves an enforcement proceeding brought by DEP while improving the company's ability to reliably and costeffectively serve its customers' growing demand for electricity. As I mentioned earlier, a major component of the requirements under the CFJ is the conversion of Tampa Electric's Gannon Station from coal to natural gas. Coal-fired Gannon Units 1, 2 and 6 will be placed on reserve status by year-end 2004, while Units 3, 4 and 5

will be repowered with new technology utilizing natural Tampa Electric is required to cease coal-fired operations at Gannon Station after 2004. The repowered qas-fueled natural provide 1,475 MW of will electric energy by 2004. Tampa Electric's witness Black will describe the engineering Charles R. schedule detail in his direct construction in more testimony.

9

10

11

12

13

14

15

16

17

18

19

20

2

٦

5

6

7

R

In addition to the conversion of Gannon Station to gas, the CFJ requires the company to, over the next 10 years, optimize its precipitators and flue gas desulfurization systems at Big Bend Station; modify, shut down or repower Big Bend Station to achieve lower NO<sub>x</sub> emissions by 2010; invest up to \$8 million in the development of innovative NO<sub>x</sub> technology that further reduces emissions; and contribute \$2 million to the Bay Regional Air Chemistry Experiment. The requirements of the CFJ are discussed further in Tampa Electric witness Gregory M. Nelson's direct testimony.

21

22

23

Q. What is Tampa Electric requesting of the Commission in this proceeding?

24

25

A. Tampa Electric requests that the Commission 1) find the

which implements the CFJ Compliance Plan, company's including the repowering of Gannon Station from coal to natural gas, to be reasonable, prudent and in the public determine that certain activities 2) interest and required by the CFJ are the types of costs that are recoverable through the Environmental Cost Recovery We are not asking for any rate relief in this proceeding, and will only do so later if necessary.

9

10

11

Q. What are the consequences to Tampa Electric if it fails to proceed with its Compliance Plan?

12

13

14

15

16

17

18

19

A. It is absolutely essential for Tampa Electric to proceed with the implementation of the requirements of the CFJ. Failure to proceed with the implementation of the Compliance Plan would delay very significant reductions in SO<sub>2</sub> and NO<sub>x</sub> emissions. The repowering of Gannon Station is the centerpiece of a sensitive and carefully balanced environmental settlement with the DEP.

20

21

22

Q. Is it important to proceed with implementation of Tampa Electric's plan to repower Gannon Station?

23

24

25

A. Yes, most definitely. Tampa Electric strongly believes its agreement with the DEP is prudent and will be

beneficial to the company's ratepayers, to ratepayers and to Florida's environment. It is essential to proceed with this project to settle environmental issues and implement the CFJ, which provides a schedule for quick action while assuming reliable electric supply to our customers and the state. The company's approach will be a cost-effective solution for customers; better than options such as additional controls on coal-fired generation or a greenfield generation site for reasons described in Mr. Nelson's testimony. The environment will benefit to the fullest through the emissions reductions and the continued use of the Gannon site with its existing infrastructure and minimized environmental disruptions.

15

16

18

19

20

23

24

25

2

3

5

R

9

10

11

13

The CFJ with Florida resulted after months of discussions with the U.S. Environmental Protection Agency ("EPA") and the DEP throughout which it became abundantly clear that these agencies are determined to require significant emissions reductions for existing coal-fired Once the EPA implemented its highly publicized national initiative with lawsuits and notices violations, a 30-day window was triggered for the state DEP, under its state implementation plan or SIP as its called, to step in and seek a solution. To the credit of the leadership of the State of Florida, the DEP stepped in, in a proactive, solution-oriented manner and clarified both the emissions reduction policy it desired and its expectations of Tampa Electric. This agreement with Florida was concluded late on the 30<sup>th</sup> day prior to ceding its jurisdiction.

It is the company's intent to implement this agreement in a responsible and cost-effective manner. We urge the Commission's support of this settlement and the company's Compliance Plan, which implements this settlement, by finding it to be reasonable, prudent and in the public interest.

Q. Please briefly summarize the subject-matter areas Tampa Electric's witnesses will address.

A. As I mentioned earlier Mr. Nelson will address Tampa Electric's Compliance Plan including, in detail, the requirements imposed by the CFJ. Mr. Black will provide a detailed overview of the engineering and construction requirements and schedule for repowering Gannon Station. His overview will include a description of the engineering cost estimates and the construction timeline.

Mr. Mark D. Ward will explain the options Tampa Electric considered as alternatives to repowering while still meeting lower emission requirements. He will demonstrate that the repowering of Gannon Units 3, 4 and 5 is the company's most cost-effective alternative. Finally, he will demonstrate the impact of repowering Gannon Station on the company's generation expansion plan and its planning reserve margin.

R

Mr. Gregory J. Ramon will discuss, in detail, the essential nature of this project for effective use of the existing transmission and distribution system of Tampa Electric. Though not a condition of the CFJ, he will show that the complete closure of this plant would have significant impacts on Tampa Electric's system and other systems in this state.

Mr. Mark J. Hornick will describe the fuel assumptions used in the Compliance Plan analyses along with a discussion of natural gas supply options for the repowering project.

Mr. Stephen L. Thumb, a fuels expert with Energy Ventures
Analysis Inc., will discuss the appropriateness of Tampa
Electric's assumptions on fuel supply and pricing. He

will also discuss the availability of natural gas in Florida.

3

5

6

7

9

1

2

Mr. Thomas L. Hernandez will describe what Tampa Electric is requesting of the Commission in his direct testimony. He will also describe a high-level, potential rate impact based to Tampa Electric's customers CFJ Finally, will discuss various he requirements. regulatory policy matters and their applicability in this proceeding.

11

10

Q. Please summarize your testimony.

13

14

15

16

17

18

19

20

21

12

Tampa Electric's Compliance Plan describes the company's A. overall plan for achieving compliance with applicable provisions of the Clean Air Act. The Compliance Plan includes the implementation requirements of the CFJ. The CFJ requires Tampa Electric to remain in compliance with environmental emissions limitations while improving the company's ability to reliably and costeffectively serve its customers' growing demand electricity.

23

24

25

A major aspect of the requirements of the CFJ is the conversion of Tampa Electric's Gannon Station from coal

to natural gas. Other requirements under the CFJ call for various actions at Big Bend and Gannon Stations to reduce SO<sub>2</sub>, NO<sub>x</sub>, and PM emissions. Finally, Tampa
Electric requests that the Commission find the company's Compliance Plan, which implements the CFJ including the repowering of Gannon Station from coal to natural gas, to be reasonable and prudent.

Q. Does that conclude your testimony?

A. Yes it does.