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From: Webb, Linda C. [LCWEBB@southernco.com]
Sent: Monday, July 30, 2001 3:48 PM
To: 'filings@psc.state.fl.us'
Subject: Docket No. 010441-EU, Territorial Dispute

ORIGINAL



073001 letter.pdf



TSA Testimony.pdf



MWH Testimony.pdf



TSS testimony.pdf

Attached is the official filing of

Gulf Power Company's Prepared Direct Testimony of T. S. Anthony, M. W. Howell, and T. S. Spangenberg to be filed in Docket No. 010441-EU. A total of four files are attached.

The letter document consists of two pages.
Mr. Anthony's testimony consists of 23 pages, including exhibit.
Mr. Howell's testimony consists of seven pages.
Mr. Spangenberg's testimony consists of 17 pages.

A true and certified hard copy will be mailed to the Division of the Commission Clerk and Administrative Services. Gulf looks forward to receiving your acknowledgement that this filing has been received.

<<073001 letter.pdf>> <<TSA Testimony.pdf>> <<MWH Testimony.pdf>> <<TSS testimony.pdf>>

Linda Webb
Gulf Power Company
8-420-6254
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Anthony
DOCUMENT NUMBER-DATE
09281 JUL 30 05
FPSC-COMMISSION CLERK

Howell *Spangenberg*
DOCUMENT NUMBER-DATE DOCUMENT NUMBER-DATE
1 09282 JUL 30 05 09283 JUL 30 05
FPSC-COMMISSION CLERK FPSC-COMMISSION CLERK

One Energy Place
Pensacola, Florida 32520

Tel 850.444.6111



ORIGINAL

July 30, 2001

Ms. Blanca S. Bayo, Director
Division of the Commission Clerk and Administrative Services
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee FL 32399-0870

Dear Ms. Bayo:

Re: Docket No. 010441-EI

Enclosed is Gulf Power Company's prepared direct testimony from the following to be filed in the above docket:

1. Timothy S. Anthony
2. M. W. Howell
3. Theodore S. Spangenberg

Sincerely,

The original physically signed version of this document is being retained by Gulf Power Company in accordance with the Electronic Filing Requirements of the Florida Public Service Commission

Susan D. Ritenour
Assistant Secretary and Assistant Treasurer

lw

cc: Beggs and Lane
Jeffrey A. Stone, Esquire

DOCUMENT NUMBER-DATE

09281 JUL 30 06

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DOCUMENT NUMBER-DATE

09282 JUL 30 06

FPSC-COMMISSION CLERK

DOCUMENT NUMBER-DATE

09283 JUL 30 06

FPSC-COMMISSION CLERK

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Petition to resolve territorial dispute)
with Gulf Power Company in Washington) Docket No.: 010441-EU
County by West Florida Electric Cooperative)
Association, Inc.)
_____)

Certificate of Service

I HEREBY CERTIFY that a copy of the foregoing has been furnished this 30th day of July 2001 by U.S. Mail or hand delivery to the following:

Marlene Stern, Esquire
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The original physically signed version of this document is being retained by Gulf Power Company in accordance with the Electronic Filing Requirements of the Florida Public Service Commission

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COMMISSION
CLERK



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3. Theodore S. Spangenberg

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Susan D. Ritenour (lw)

Susan D. Ritenour
Assistant Secretary and Assistant Treasurer

lw

cc: Beggs and Lane
Jeffrey A. Stone, Esquire
Certified a True Copy.

Linda G. Malone
ASST. Secretary
GULF POWER COMPANY

This document was transmitted electronically to the Commission for official filing on July 30, 2001. This is a true and certified copy of the document filed electronically on July 30, 2001.

CCA note: Documents detached - letter only placed in correspondence. *lf*

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Petition to resolve territorial dispute)
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ORIGINAL

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 010441-EU

PREPARED DIRECT TESTIMONY

OF

M. W. HOWELL

JULY 30, 2001



DOCUMENT NUMBER-DATE

09282 JUL 30 2001

FPSC-COMMISSION CLERK

1 GULF POWER COMPANY

2 Before the Florida Public Service Commission
3 Prepared Direct Testimony of

4 M. W. Howell

5 Docket No. 010441-EU

6 Territorial Dispute in Washington County – Enron Compression Services

7 Date of Filing: July 30, 2001

8

9 Q. Please state your name, business address and occupation.

10 A. My name is M. W. Howell, and my business address is One Energy Place,
11 Pensacola, Florida 32520. I am Transmission and System Control
12 Manager for Gulf Power Company.

13

14 Q. Have you previously testified before the Commission?

15 A. Yes. I have testified in various rate case, cogeneration, territorial dispute,
16 planning hearing, need determination, fuel clause adjustment, and
17 purchased power capacity cost recovery dockets.

18

19 Q. Please summarize your educational and professional background.

20 A. I graduated from the University of Florida in 1966 with a Bachelor of
21 Science Degree in Electrical Engineering. I received my Masters Degree
22 in Electrical Engineering from the University of Florida in 1967, and then
23 joined Gulf Power Company as a Distribution Engineer. I have since
24 served as Relay Engineer, Manager of Transmission, Manager of System
25 Planning, Manager of Fuel and System Planning, and Transmission and
System Control Manager. My experience with the Company has included
all areas of distribution operation, maintenance, and construction;
transmission operation, maintenance, and construction; relaying and

1 protection of the generation, transmission, and distribution systems;
2 planning the generation, transmission, and distribution systems; bulk
3 power interchange administration; overall management of fuel planning
4 and procurement; and operation of the system dispatch center.

5 I am a member of the Engineering Committees and the Operating
6 Committees of the Southeastern Electric Reliability Council and the
7 Florida Reliability Coordinating Council, and have served as chairman of
8 the Generation Subcommittee of the Edison Electric Institute System
9 Planning Committee. I have served as chairman or member of many
10 technical committees and task forces within the Southern electric system,
11 the Florida Electric Power Coordinating Group, and the North American
12 Electric Reliability Council. These have dealt with a variety of technical
13 issues including bulk power security, system operations, bulk power
14 contracts, generation expansion, transmission expansion, transmission
15 interconnection requirements, central dispatch, transmission system
16 operation, transient stability, underfrequency operation, generator
17 underfrequency protection, and system production costing.

18

19 Q. What is the purpose of your testimony in this proceeding?

20 A. I will address the technical character of the electric load Enron
21 Compression Services ("ECS") has requested Gulf Power to serve at
22 Station 13A in Washington County, Florida, the facilities that are
23 necessary to provide adequate service to ECS at Station 13A, and the
24 cost of the specific facilities that Gulf Power Company ("Gulf") is building
25 to satisfy the customer's needs for reliable electric service for the new

1 electric motor driven compressors that will be installed at Station 13A.

2

3 Q. What are the major components that define the character of the ECS
4 electric load to be served at Station 13A?

5 A. The major components that define the character of the load to be served
6 are two 15,000 horsepower electric motors that drive the natural gas
7 compressors. What particularly makes the service to these motors unique
8 is that they will be started “across the line” as opposed to using some soft
9 start technique. The power system that provides service to motors of this
10 size when started across the line will need to be strong enough to
11 withstand providing up to six times the full load current (mostly reactive
12 current) without experiencing an excessive voltage dip that will prevent the
13 motor from starting or from affecting other customers. Gulf analyzed its
14 electric transmission system in the area and concluded that the **only** way
15 that service to this load could be provided in accordance with the
16 customer’s requirements was to use Gulf’s Smith – Shoal River 230 kV
17 transmission line as a source. The starting current requirements of each
18 of these motors render service from any 115 kV transmission facilities in
19 the geographic area impracticable from both operational and reliability
20 viewpoints.

21

22

23

24

25

1 Q. Once you had determined that the Smith – Shoal River 230 kV line was
2 the only acceptable source for ECS’s power supply, what facilities did Gulf
3 decide that it needed to construct and install to bring this source to the
4 Station 13A location?

5 A. Basically, the system extension to bring the power to ECS at Station 13A
6 requires three components, which are: (1) a three terminal switching
7 station at the connection point with the Smith – Shoal River 230 kV line
8 (Shaky Joe Swamp 230 kV Substation), (2) a 230/12.47 kV distribution
9 substation at Station 13A (Hinsons Crossroads Substation), and (3) a
10 single circuit 230 kV transmission line connecting these two substations.

11 Shaky Joe Swamp Substation will be a typical three terminal
12 substation using “line ‘rupters” for reliability and fault isolation capability.
13 This substation will be located where the Smith – Shoal River 230 kV line
14 crosses County Road 284, approximately 47 line miles from Shoal River
15 Substation and 32 line miles from Gulf’s Plant Smith. The location of
16 Shaky Joe Swamp substation is approximately 5 miles in a direct line from
17 the new ECS electric load at Station 13A. The cost to construct Shaky
18 Joe Swamp Substation is estimated at \$1.3 million.

19 Hinsons Crossroads Substation will be a typical distribution
20 substation with a 33 MVA (top rated at 65 deg. C rise) 230/12.47 kV step-
21 down transformer and low side distribution feeders. The low side feeders
22 will be the power supply for the 15,000 horsepower compressor motors.
23 The cost to construct the Hinsons Crossroads Substation is estimated at
24 \$1.5 million. ECS has chosen to pay an additional fee to have Gulf install
25 a dedicated spare transformer in the substation because of its desire to

1 have a higher level of reliability that would minimize any down time as a
2 result of a possible transformer failure.

3 The transmission line connecting these substations will be a single
4 circuit 230 kV line that is approximately 6 miles in length. The line will be
5 built using 1033 MCM ACSR conductor and single pole structure
6 construction. The estimated cost for this transmission line is \$2.7 million.

7

8 Q. Does the provision of electric service to ECS at Station 13A have any
9 detrimental effect on the service on any Gulf or West Florida Electric
10 Cooperative (WFEC) customer?

11 A. No. The analysis that Gulf performed using the assumptions for the
12 equipment being installed and operated in the manner anticipated by the
13 customer shows no detrimental impact on the reliability or power quality of
14 Gulf's existing or future customers as a result of this new customer's load.
15 In addition, since this service is being provided from an electric system
16 that is not directly connected to the other customers in the areas around
17 Station 13A, the provision of service to ECS at Station 13A will not
18 adversely impact their service. In fact, the 115 kV system providing
19 service to the substations which serve these other customers is so
20 electrically remote that the new service to ECS will be imperceptible to
21 them.

22

23 Q. Could Gulf provide service directly to any other customer from the
24 facilities being installed for service to ECS at Station 13A?

25 A. No. In order to provide service to any other customer in the area around

1 Station 13A, Gulf would be required to install additional transformer and
2 substation equipment so as not to expose any additional customers to the
3 voltage drops on the low side of the transformer being installed for the
4 service to ECS. Gulf has no plans or intention to serve any customers
5 other than ECS as a result of installing the electrical transmission and
6 distribution facilities to Station 13A.

7

8 Q. Does this conclude your testimony?

9 A. Yes, it does.

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