

**BEFORE THE FLORIDA
PUBLIC SERVICE COMMISSION**

**DOCKET NO. 030084-EI
FLORIDA POWER & LIGHT COMPANY**

**IN RE: PETITION FOR DETERMINATION
OF NEED FOR THE
COLLIER-ORANGE RIVER #3 PROJECT**

DIRECT TESTIMONY OF:

VICENTE ORDAX, JR.

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6 **FEBRUARY 26, 2003**

7

8 **Q. Please state your name and business address.**

9 A. My name is Vicente Ordax, Jr. My business address is 4200 West Flagler
10 Street, Miami, Florida 33134.

11

12 **Q. By whom are you employed and what is your position?**

13 A. I am employed by Florida Power & Light Company ("FPL") as Supervisor
14 of Local Area Planning.

15

16 **Q. What are your responsibilities as Supervisor of Local Area Planning?**

17 A. My responsibilities include the development and evaluation of
18 transmission expansion plans utilizing load flow analysis. I have held this
19 position and performed these responsibilities since September of 2001.

20

21 **Q. Please briefly describe your educational and professional background.**

22 A. I graduated with honors from the University of Florida with a Bachelor of
23 Science degree in Electrical Engineering in August of 1986. I received a

1 Master of Science degree in Electrical Engineering from Florida
2 International University in August of 1990. I am a registered professional
3 engineer in the state of Florida. I have also attended seminars and short
4 courses covering topics related to transmission planning.

5
6 I have been employed by FPL since August of 1986 and have held several
7 positions. Since 1991, my responsibilities in the Transmission Operation
8 and Transmission Planning areas have included performing engineering
9 work for FPL. In that capacity I have attained a high level of expertise in
10 the performance of transmission load flow studies and other specialty
11 studies. I have also represented FPL as a member of the Transmission
12 Working Group of the Florida Reliability Coordinating Council
13 responsible for performing the seasonal transmission assessments.

14
15 **Q. Are you sponsoring any portion of the Petition?**

16 A. Yes. I am co-sponsoring the load flow diagrams (Appendices A & B) and
17 the Load Flow Project Summary Table (Attachment 8) included in Exhibit
18 "A" to FPL's Petition for Determination of Need for the Collier-Orange
19 River #3 Project ("Project") filed with this Commission on February 26,
20 2003.

21
22 **Q. What is the purpose of your testimony?**

1 A. The purpose of my testimony is to sponsor the results of the load flow
2 studies reflected in the load flow diagrams included in Exhibit "A" to
3 FPL's Petition which demonstrate the need for the Project.

4
5 **Q. Were the load flow studies and resulting load flow diagrams**
6 **prepared under your direct supervision and control?**

7 A. Yes.

8

9 **Q Are the load flow analyses and corresponding diagrams presented in**
10 **the Petition consistent with generally accepted engineering practices**
11 **and transmission planning criteria?**

12 A. Yes, they are.

13

14 **Q. What are load flow diagrams and how are they used in utility**
15 **transmission planning?**

16 A. Load flow diagrams show the electrical configuration of a transmission
17 system. They are used to identify transmission facilities and the loading
18 on those facilities for the specific condition being evaluated.

19

20 **Q. Why were the load flow diagrams prepared?**

21 A. The load flow diagrams were prepared to show graphically the results of
22 the load flow studies which demonstrate and support the need for the
23 Project. The load flow studies and corresponding diagrams evaluated the

1 transmission system performance during winter and summer peak load
2 conditions under single contingency events. The results of the studies for
3 the Project are summarized in Attachment 8 to the Petition and discussed
4 by Mr. Schoneck in his direct testimony.

5

6 **Q. Does this conclude your testimony?**

7 **A. Yes, it does.**