

BEFORE THE FILE COPY FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 900796-EI

FLORIDA POWER & LIGHT COMPANY

IN RE: FLORIDA POWER & LIGHT COMPANY'S
PURCHASE OF GEORGIA POWER COMPANY'S
ROBERT W. SCHERER UNIT NO. 4

DIRECT TESTIMONIES OF:

C. O. Woody

G. R. Cepero

R. R. Denis

S. S. Waters

H. A. Gower

DOCUMENT NUMBER-PATE

08690 SEP 28 1990

TO THE COMPONENT OF THE PARTY O

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

FLORIDA POWER & LIGHT COMPANY

TESTIMONY OF C. O. WOODY

DOCKET NO. 900796-EI

SEPTEMBER 28, 1990

				500 C M 100		4	business	address.
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2 A. My name is C. O. Woody. My business address is 700

3 Universe Blvd., Juno Beach, Florida 33408.

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- 5 Q. Who is your employer and what position do you hold?
- 6 A. I am employed by Florida Power & Light Company (FPL) as
- 7 Executive Vice President-Corporate Energy Supply.

- 9 Q. Please describe our responsibilities in that position.
- 10 A. I am responsible for the planning, construction, and
- operation of FPL's generation and transmission system.
- 12 This includes all aspects of power generation (except
- nuclear activities) and transmission. Developing a
- 14 system-wide plan for providing adequate, reliable service
- at a reasonable cost to the customer is a part of the
- 16 planning functions under my responsibility.

- 1 Q. Please summarize your background and experience.
- 2 A. My undergraduate studies were in Electronic Technology.
- 3 I have subsequently received a Master's Degree in
- 4 Business Administration from the University of Miami. I
- 5 have also graduated from the Harvard Business School
- 6 Program for Management Development.

I have been employed by FPL since 1956, starting at an entry level position at the Miami Beach Plant. I held positions in plant operations, electrical maintenance, and as Plant Superintendent prior to moving to the corporate office in 1973 in a management position in the Power Resources Department. From 1976 to 1987, I held senior management positions in the area of nuclear operations, including the positions of Manager, Director, Vice President and Group Vice President. In 1987, I was elected to my present position as Executive Vice

I was associated with the Electric Power Research Institute (EPRI) from 1980 to 1986, serving on the Research Advisory Committee and as past chairman of the Nuclear Power Division Committee. I am a member of the Executive Board of the Southeastern Electric Reliability Council and a member of the Engineering and Operation

President, responsible for corporate energy supply.

1		Division Executive Committee of the Southeastern Electric
2		Exchange. I am also a member of the Power Generation
3		Committee of the Association of Electric and Illuminating
4		Companies and a member of the American Society of
5		Mechanical Engineers.
6		
7	Q.	Have you prepared an exhibit in connection with your
8		testimony?
9	Α.	Yes. It consists of two documents.
10		Document No. 1 is a map of the FPL service area.
11		Document No. 2 is the actual and projected energy
12		generated by resource type for the years
13		1989, 1990 and 1997.
14		
15	Q.	What is the purpose of your testimony?
16	A.	The purpose of my testimony is to provide an overview of
17		the FPL system; to explain why the purchase of a share of
18		Georgia Power Company's Plant Robert W.Scherer Unit No.
19		4 (Scherer Unit No. 4) is necessary, reasonable, and
20		prudent and represents a unique opportunity for FPL; and
21		to summarize the reasons why FPL is requesting the
22		Commission's approval to include Scherer Unit No. 4's
23		total purchase price, including an acquisition
24		adjustment, in FPL's rate base.

1 Q. Please provide an overview of FPL's current system.

FPL is the principal subsidiary of FPL Group. FPL was A. incorporated in 1925 and is the fourth largest investorowned electric utility in the United States when measured by number of customers served, peak load, or total It is engaged in the generation, electric sales. transmission, distribution and sale of electric energy. FPL provides electric energy to all or part of 35 counties in the state of Florida, mainly along the east coast and the southwest coast of our state. This service area covers 27,650 square miles and contains an estimated population of over 5.9 million. At the local level, FPL provides service to its customers through five divisions which cover the entire service area shown on my Document No. 1.

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In 1980, FPL established a strategy to reduce its dependence on oil as a fuel. That strategy has been successful. We reduced our oil consumption from 44.5 million barrels in 1981 to 26.0 million barrels in 1989. As shown on my Document No. 2, a majority of our customer energy requirements in 1989 were met by a combination of nuclear and coal resources, with the balance generated by oil and gas resources. The Scherer Unit No. 4 acquisition that we are presenting to the Commission is

1 a	coal-fired	unit.	The	addition	will	help	maintain	а

- 2 diverse and flexible fuel mix on our system and will
- avoid undue reliance on oil.

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- 5 Q. Please explain why FPL intends to purchase a portion of Scherer Unit No. 4?
- 7 A. The purchase of Scherer Unit No. 4 represents a unique
- 8 opportunity for FPL. It meets FPL's long-term capacity
- 9 needs and provides short-term benefits, while offering
- 10 advantages not available with other alternatives.

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- 12 Q. Could you summarize the benefits of the proposed
- 13 purchase?
- 14 A. There are several benefits to the proposed purchase.
- 15 Where appropriate, benefits have been quantified in our
- 16 economic analysis.

- 18 All of our capacity addition decisions result from the
- comprehensive planning process which Mr. S. S. Waters
- 20 describes. The results of that process demonstrate that
- 21 FPL requires additional capacity by 1996 in order to
- 22 continue to provide adequate and reliable service to our
- 23 customers. Scherer Unit No. 4 is the best of all the
- 24 alternatives available, inclusive of those identified
- 25 through FPL's "Request For Power Supply Proposals" (RFP)

process, to satisfy our capacity needs. Our purchase of Scherer Unit No. 4 will be phased-in starting in 1991, as described in Mr. G. R. Cepero's testimony. Therefore, in addition to satisfying our long term capacity needs, Scherer Unit No. 4 also provides short-term benefits. Among these are: (1) a reduction of FPL's dependency on oil at an earlier date; (2) a reduction in FPL's total investment while locking in the price of the unit; (3) the provision of capacity needed in 1991 to allow for the upgrade of the Turkey Point Nuclear Station emergency power system; and (4) a gradual increase to FPL's capacity, thus adding flexibility to the Company's ability to adjust for changes in load conditions or other alternative construction requirements. No available to FPL can provide these benefits.

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Scherer Unit No. 4 is an existing unit with known performance and costs. This eliminates risks associated with design, engineering, licensing, permitting, construction, and their potential for cost overruns. This represents a reduction in risk when compared to other generation additions, which must still be designed, engineered, licensed, constructed and operated.

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The purchase of the unit also inclades associated

emission allowances. Also, should the life of the unit
extend beyond 30 years, as is the case with many fossilfired units, FPL will not have to build new capacity to
replace it, as it would have to for a power purchase.

Finally, the Scherer purchase will facilitate expansion of the Southern/Florida transmission interface. To that end, Southern Companies have agreed to utilize best efforts to negotiate with utilities in Peninsular Florida to expand the Southern/Florida interface to make an additional 500 MW of interface capability available to FPL.

In summary, the proposed purchase of Scherer Unit No. 4 will enable FPL to meet its future capacity needs, as well as providing short-term benefits with a new, fully licensed and operating unit at the most favorable cost.

- 19 Q. You mentioned alternatives identified through FPL's RFF
 20 process. Please elaborate on these alternatives.
- 21 A. Briefly, FPL issued this RFP in July 1989 seeking 22 proposals to provide up to 800 MW of capacity with a 23 preferred in-service date of 1996. Proposals from 24 cogenerators, small power producers, independent power 25 producers and utilities, both from outside and within the

State of Florida, were accepted for consideration. 1 2 received 34 proposals totaling 10,793 MW from different respondents. 3 4 Mr. R. R. Denis will describe the RFP process in detail 5 in his testimony. 6 7 Will you explain how the purchase of Scherer Unit No. 4 8 0. offers the opportunity to obtain capacity at favorable 9 10 cost? Yes. As Mr. S. S. Waters explains, FPL has evaluated the 11 various potential options, including those solicited in 12 the RFP, to determine which offers the most favorable 13 conditions and has the lowest cost. The most favorable 14 option is the purchase of Scherer Unit No. 4, the aspects 15 of which are discussed by Mr. G. R. Cepero. The low risk 16 associated with obtaining capacity from an existing 17 18 licensed and operating unit is a significant consideration. 19 Why are you seeking approval of your proposed treatment Q.

- 21 of the Scherer Unit No. 4 purchase at this time? 22
- 23 The opportunity to purchase a portion of Scherer Unit No.
- 4 is only available for a limited period of time. 24 sale is also contingent on obtaining regulatory 25

approvals. Since the viability to FPL of this purchase depends on the recognition by this Commission of the purchase price in its rate base, approval of our request is needed at the latest in early 1991 in order to make Scherer Unit No. 4 a viable option.

7 Q. In light of the considerations you have discussed, 8 exactly what action is FPL asking this Commission to 9 take?

10 A. FPL is asking the Commission to find that the purchase of
11 Scherer Unit No. 4 is necessary, reasonable and prudent,
12 and that FPL can include the entire purchase price in its
13 rate base. FPL is not currently requesting an adjustment
14 in its rates to reflect this addition.

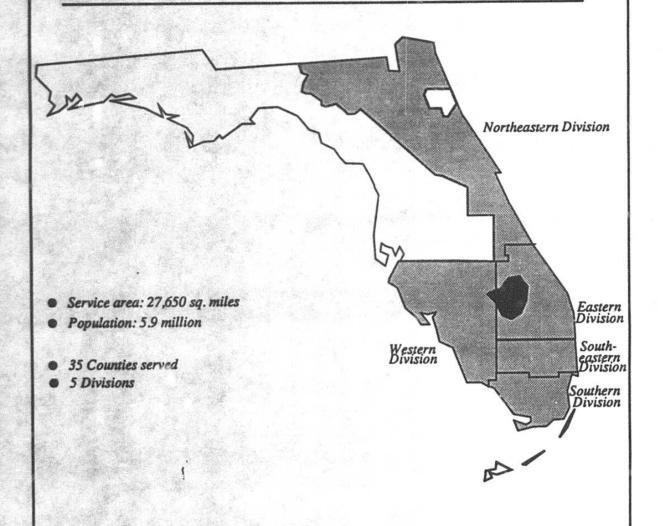
As described by Mr. G. R. Cepero, the purchase price is about \$615 million for a 76.36% (646 MW) ownership share of this 846 MW unit. Georgia Power's depreciated book value for this unit is below the purchase price agreed to by FPL. This difference represents an amount, or acquisition adjustment, above net book value. We further ask that we be allowed to amortize the acquisition adjustment amount over the economic life of the unit.

As described by Mr. Hugh Gower, the purchase of Scherer

Unit No. 4 meets appropriate criteria for including the 1 acquisition adjustment within the rate base. 2 testimony of other FPL witnesses supports that it is 3 reasonable and prudent to purchase Scherer Unit No. 4. If the Commission were not to allow FPL's cost inclusion 5 in its rate base, the purchase would no longer be viable 6 leaving only options which are less favorable to FPL and 7 its ratepayers. Approval of the Scherer Unit No. 4 8 purchase is clearly the best alternative for our 9 customers. 10

- 12 Q. Does this conclude your testimony?
- 13 A. Yes.

FLORIDA POWER & LIGHT COMPANY SERVICE AREA



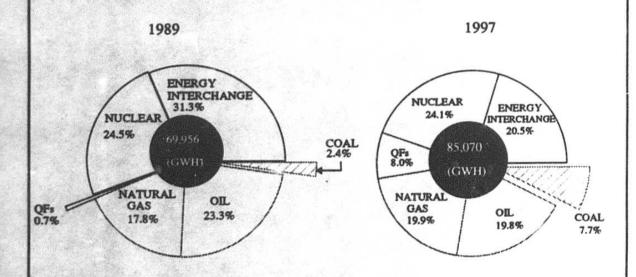
Docket No.

FPL Witness: C.O. Woody

Exhibit No. Document No.1 Page 1 of 1

ENERGY BY FUEL TYPE

	ENERGY BY FUEL TYPE (GWH)					
FACILITIES	1989 ACTUAL	1990 PROJECTION	1997 PROJECTION			
FPL FACILITIES						
COAL-FIRED	1,666	1,765	6,576			
OIL-FIRED	16,331	11,868	16,820			
GAS FIRED	12,438	14,266	16,942			
NUCLEAR	17,171	18,011	20,497			
QUALIFYING FACILITIES (QFs)	437	1,513	6,814			
(NET) ENERGY INTERCHANGE	21,913	23,836	17,421			
ENERGY FOR LOAD (NEL)	69,956	71,259	85,070			



Docket No.

FPL Witness: C.O. Woody

Exhibit No.
Document No.2
Page 1 of 1

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION FLORIDA POWER & LIGHT COMPANY

TESTIMONY OF G. R. CEPERO

SEPTEMBER 28, 1990

DOCKET NO.

1	Ω٠.	Please state your name and business address.
2	A.	My name is G. R. Cepero, and my business address is
3	(Classe)	9250 West Flagler Street, Miami, Florida 33174.
4		
5	Q.	Who is your employer and what position do you hold?
6	A.	I am employed by Florida Power & Light Company (FPL) as
7		the Director of Bulk Power Markets. As such, I am
8		responsible for FPL's dealings with utilities, including
9		municipal and electric cooperative systems, Qualifying
10		Facilities and Independent Power Producers.
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12	Q.	Please describe your education and professional
13		experience.
14	A.	I received a Bachelor of Electrical Engineering degree
15		from the University of Detroit in 1970, a Master of
16		Business Administration degree from Florida International
17		University in 1976, and a Juris Doctor degree from the
18		University of Miami in 1981. I also graduated from the

Harvard Business School's Program for Management
Development in 1989. Additionally, I have completed
numerous technical and management courses during my
career with FPL.

I joined FPL in January, 1971 as an Engineer Trainee in the System Planning department and held various engineering positions in that department until 1975. In 1975 I was promoted to Supervising Engineer and have since progressed through several management levels to my current position as department head. I have served as Director of System Planning between 1986 and 1988; as Director of Fuel Resources between 1988 and 1990; and most recently as Director of Bulk Power Markets.

planning, economic and financial analysis, power purchase and sale agreements, and fuel planning and procurement. I have also worked extensively on state and federal regulatory matters and on coordination of planning activities and joint ventures with other utilities.

- 23 Q. What are the purposes of your testimony?
- 24 A. The purposes of my testimony are to briefly describe the 25 Georgia Power Company's (GPC) Plant Robert W. Scherer

1	Unit No. 4, its common and associated facilities, and to
2	present the benefits and key terms and conditions of
3	FPL's proposed purchase of an undivided ownership
4	interest in such unit.
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6 Q.	Have you prepared an exhibit in connection with your
7	testimony?
8 A.	Yes. It consists of three documents.
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10	Document No. 1 is a detailed description, prepared by
11	GPC, of the design and facilities
12	comprising Scherer Unit No. 4.
13	Document No. 2 is a copy of the letter of intent
14	between FPL, GPC, Southern Companies,
15	and Jacksonville Electric Authority
16	(JEA) regarding the proposed purchase by
17	FPL and JEA of an undivided ownership
18	interest of Scherer Unit No. 4 (Scherer
19	Unit No. 4 Letter of Intent).
20'	Document No. 3 is a copy of the letter of intent
21	between FPL and JEA regarding the
22	provision of transmission capacity and
23	service by JEA to FPL for capacity and
24	energy to be received from Scherer Unit
25	No. 4 (FPL/JEA Letter of Intent).

Please describe the Scherer Plant and Scherer Unit No. 4. 1 Q. The Scherer Plant is a four-unit electric generating A. 2 plant located near Macon, Georgia. The units are coal-3 fired and are designed to be operated as base-load units. The plant was designed by Southern Company Services, Inc. 5 and constructed by GPC. Scherer Unit No. 4 is the newest of the plant's units, having been placed in commercial 7 operation in March, 1989. The unit has a demonstrated 8 net dependable capacity of 846 megawatts. Details of the 9

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The unit is a new, well-designed facility which incorporates the construction and operating experience of Southern Companies and the economies of scale and standardization of a large four-unit power plant.

unit's design can be found in my Document No. 1.

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20 Could you please summarise the arrangements between GPC and FPL for the purchase of Scherer Unit No. 4?

19 A. There are actually four parties to the arrangements:

20 FPL, GPC, Southern Company Services, and the Jacksonville

Electric Authority (JEA). On July 31, 1990, these parties entered into a Letter of Intent (Letter), attached as my Document No. 2, for the sale of undivided ownership interests in Scherer Unit No. 4 to FPL and JEA.

The Letter sets forth the principles under which the

parties will negotiate the necessary final agreements.

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3 As expressed in the Letter, FPL intends to purchase 76.36 percent (about 646 MW) of the Unit and JEA the other 23.64 percent (about 200 MW). The purchase is to be 5 phased-in over a period of years, with completion of the 6 acquisition expected in 1995. FPL and JEA will acquire 7 an ownership interest in the Plant's common facilities, 8 including land, as well as in fuel stock, materials and 9 supplies, governmental permits, engineering records and 10 drawings, operation and maintenance procedures manuals, 11 and existing warranties. Emission and other such 12 environmental allowances will also be included in these 13 ownership rights. 14

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The Letter contemplates agreements for purchases and sales of interests in Unit 4, for the operation and maintenance and fuel supplies for the Unit, for transmission expansion and service, for UPS sales from Southern Companies to FPL, and for assignment to FPL of certain rights and obligations of JEA.

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- 23 Q. Could you describe specific benefits of the proposed arrangements?
- 25 A. The Scherer Unit No. 4 purchase arrangements present many

benefits to FPL, several of which are enumerated in the testimonies of Messrs. Woody and Waters. In addition to those benefits, there are other features of the proposed arrangements that merit separate consideration.

By purchasing the unit FPL is also entitled to any emission and other environmental allowances associated with its ownership interest in the unit. This gives FPL the ability to operate the unit, and increases operational flexibility. Should it become necessary for FPL to adjust its unit commitment and/or dispatch as a result of environmental requirements, Scherer No. 4 can be treated as any other FPL unit by virtue of these allowances. Moreover, unlike power purchases which can be expected to last a maximum of 30 years, the emission allowances will permit operations for the full life of the unit, which could extend to 40 or more years. In addition, the emission credits may be available for use past the retirement date of the unit.

An additional benefit of this extended life, which GPC estimates at approximately 40 years, is that FPL will not have to build new capacity to replace it until much later, as it would have to for a power purchase.

Finally, a very significant benefit of the Scherer purchase is that it will facilitate expansion of the Southern/Florida transmission interface. As part of the arrangements Southern Companies have agreed to utilize best efforts to negotiate with utilities in Peninsular Florida for the construction of additional transmission facilities to expand the Southern/Florida interface. This will improve the reliability of the system through the provision of tie-line assistance and provide additional opportunities for economy purchases and sales, not only to FPL, but to the State. The Scherer purchase and the opportunity for other transactions serve as an inducement the Southern Companies to build additional transmission facilities to interconnect with Peninsular Florida. The Southern Companies have indicated that the construction of additional transmission facilities needs to be an integral part of additional firm transactions, notwithstanding the desires of Florida utilities. Therefore, the Scherer Unit No. 4 purchase can be said to be an essential element for the expansion of the Southern/Florida interface.

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24 Q. What is the anticipated price of Scherer Unit No. 4 to 25 PPL?

FPL has agreed to pay GPC a total of \$615,504,000 for 1 A. FPL's aggregate 76.36 percent undivided ownership share of the unit, with the balance of the unit being purchased by JEA. This price includes approximately \$22 million in fuel and spare parts inventories, but does not reflect a depreciation credit to the purchase price approximately \$0.5 million per month from November 1, 1990 until the first closing, and an estimated \$2 million in costs associated with the purchase. This price may also be subject to adjustments based on the cost of capital improvements made during the pendency of the sale; and the actual cost of the fuel, materials and supplies inventories on the respective closing dates. These adjustments will reflect actual costs; for example, for more or less fuel, and in any event, are expected to be a very small percentage of the total price.

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Based on the net dependable capacity of the unit of 846 megawatts, FPL's ownership share would be equivalent to 646 megawatts of capacity. Therefore, FPL's purchase price on a per-unit basis would be about \$953 per installed kilowatt of capacity, including inventories. The purchase price was the result of extensive and vigorous negotiations with Southern Companies. FPL's objective in the negotiations was to obtain the best

possible price for the unit based on the "value received"

by FPL. As described by Mr. S. S. Waters in his

testimony, this purchase has the best economics of the

options available to FPL. As I previously discussed, the

purchase also offers benefits which we have not attempted

to quantify.

A.

8 Q. Now does the negotiated price for Scherer Unit No. 4
9 compare to GPC's book value of the unit?

As described in Mr. Hugh Gower's testimony, the purchase price includes an acquisition adjustment of approximately \$111.4 million, which represents the amount to be paid in excess of the projected depreciated book value of the unit. The exact amount of the acquisition adjustment cannot be determined with certainty until the closing dates are established and the exact amount of fuel stock and materials and supplies included in the purchase have been determined.

20 Q. What are the other key components of the purchase that 21 affect the total cost of the transaction?

The other key components are the operation and maintenance (O&M) costs for the unit and the expected fuel costs. In this regard the letter of intent provides for separate agreements to be negotiated.

The Oam agreement will provide for operation and maintenance, administrative and general expenses, and an operating fee to be paid to GPC who will operate the unit on behalf of the owners. An estimate of these expenses has been provided by Southern and incorporated in the economic analysis performed by Mr. Waters. While these matters are under negotiation, FPL believes that the estimates used are appropriate for economic analysis purposes.

With respect to fuel, the letter of intent provides for FPL and JEA to assume 25% of all existing fuel contracts for Plant Scherer. As owners, FPL and JEA are to participate in future fuel supply decisions. The letter also allows FPL and JEA to terminate their obligations under the letter if they determine that the expected average cost of fuel will not be competitive with long-term prices for comparable fuel. FPL has therefore used in the economic analysis performed by Mr. Waters an expected coal price based on FPL's acceptance of 25% of existing contracts and FPL's own estimate of coal prices for the balance.

- 24 Q. Could you describe the phased-in purchases?
- 25 A. The letter of intent provides for four different closing

dates for FPL'S portion of the purchase. The projected 1 closing dates associated with the delivery schedule are 2 as follows: January 1, 1991 (17.73%); June 1, 1993 3 (31.44%) June 1, 1994 (16.55%); and June 1, 1995 (10.64%). 5 6 Why is FPL contemplating purchasing an ownership interest 7 0. in Scherer Unit No. 4 in accordance with a delivery 8 schedule instead of a single transaction? 9 FPL is purchasing under a delivery schedule as these were 10 A. the terms proposed by Southern. However, this delivery 11 schedule provides FPL some additional benefits: 12 FPL would be able to "lock in" a fixed purchase 13 price up to four years earlier than the total cash 14 outlays; 15 the delivery schedule would assist FPL in meeting 16 the capacity needs arising specifically from the 17 Turkey Point Upgrade Project and provides additional 18 capacity to meet contingencies such as load growth 19 increases or delays in the in-service date of 20 generating facilities; and 21

> a reduction in total capital expenditures, and consequently financing requirements, would accrue to FPL, when compared to construction of FPL facilities.

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- 1 Q. How would the Scherer Unit No. 4 acquisition help meet
- 2 FPL's capacity needs arising from the outage of the
- 3 Turkey Point units?
- 4 A. As part of the Scherer Unit No. 4 acquisition
- 5 arrangement, Southern Companies have agreed to sell FPL
- 6 an additional 300 megawatts of Unit Power Sales (UPS)
- 7 capacity. The sale of additional UPS would be broken
- 8 down into two time periods: A firm sale from November 1,
- 9 1990 through December 31, 1990 (Initial UPS); and a sale
- 10 beginning January 1, 1991 (if the first closing did not
- 11 occur on that day) and terminating on June 30, 1991, or
- 12 the date of the first closing, whichever occurred first.

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- 14 In addition to providing firm capacity during the period
- of the Turkey Point Upgrade Project, the additional UPS
- 16 sale would also have the advantage of inducing Southern
- 17 Companies to agree not to pursue the sale of Scherer Unit
- 18 No. 4 to others through December 31, 1990.

- 20 Q. What is the basis for FPL's belief that Scherer Unit
- No. 4 is reliable, economical, and environmentally sound?
- 22 A. FPL is confident of the reliability, economic operation,
- 23 and environmental soundness of Scherer Unit No. 4, due to
- 24 the fact that it is an operating unit with a demonstrated
- 25 record of reliability, heat rate, and environmental

performance. The unit is of modern design and incorporates all of the lessons learned by the Southern Companies in their extensive construction and operation experience. In addition, Scherer Unit No. 4's "sister units" at the Scherer Plant have demonstrated the performance capabilities of the basic design over longer periods of time.

Additionally, Southern Companies have agreed to sell to FPL energy from other units sufficient for FPL to achieve the equivalent of a 90 percent capacity factor from FPL's ownership interest in Scherer Unit No. 4 through at least December 31, 1994.

Finally, FPL has conducted technical inspections of the facility and will conduct extensive "due diligence" investigations prior to all closings to identify any potential legal, operational, equipment, or environmental risk or liability.

- 21 Q. Could you describe what needs to happen to complete the 22 purchase and by when?
- 23 A. There are essentially five groups of agreements that must 24 be completed by December 31, 1990. They are: a Purchase 25 Agreement; Operating Agreements; Transmission Service

Agreements; Transmission Expansion Agreements; and Short
Term Power Purchase Agreements.

In addition to these agreements being finalized, regulatory approvals must be obtained from this Commission, from the Securities and Exchange Commission and from the Federal Energy Regulatory Commission. These approvals, particularly this Commission's, must be obtained as early as possible, but in no event later than early 1991 in order to allow the transaction to proceed. FPL cannot proceed with closing absent Commission approval for inclusion of the entire purchase price in FPL's rate base.

15 Q. Could you describe the status of these agreements?

The Purchase Agreement sets forth the terms and conditions pursuant to the letter of intent. The price and delivery schedules for the transfer have already been identified as previously described. The parties are conducting due diligence investigations to confirm various aspects of the transfer and are negotiating a draft contract at this time.

The Operating Agreements will define terms and conditions for operation, maintenance, unit commitment and dispatch,

fuel supply, capital improvements and compensation for services. The operating and maintenance contract will provide for GPC operating and maintaining the unit as FPL's agent. FPL (and JEA, as co-owner) will retain decision-making authority regarding resources and budgets, dispatch of the unit, operating philosophy, maintenance philosophy, major maintenance items, and overhaul scheduling. Obviously, coordination with GPC on these items would be required. The fuel supply agreement would provide FPL and JEA the opportunity to participate in the long-term coal supply procurement process for all future coal supplies. These agreements are under negotiations at this time.

The Transmission Service Agreements will establish the terms and conditions for delivery of Scherer Unit No. 4 power to the Florida/Southern interface. The letter of intent sets forth the basic components of the GPC transmission rate. An agreement with JEA is being finalized to allocate the jointly owned transmission interface capacity (a letter of intent between FPL and JEA establishing the principles for this is attached as my Document No. 3). Also, an agreement for short-term transmission service with JEA has been executed.

Scherer purchase is contingent on, and will 1 the Southern/Florida facilitate expansion of, 2 Studies transmission interface. of expansion 3 alternatives, including required Florida improvements, are currently underway. Transmission expansion agreements 5 6 will be developed to accomplish the expansion.

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Short Term Power Purchase Agreements are required for the 1990 300 MW Initial UPS purchase and for the 1991 UPS purchase. The contract for the Initial UPS has been negotiated and filed with FERC. The key terms of the 1991 UPS purchase have been negotiated and incorporated in the Initial UPS contract. A separate contract is required for the assumption by FPL of a portion of JEA's purchase obligation under the 1982 UPS agreement effective upon the first closing.

- 18 Q. Why is FPL assuming JEA's obligations under the 1982

 19 agreement?
- 20 A. Essentially, JEA would like to purchase an ownership
 21 interest in Scherer Unit No. 4, but does not currently
 22 need additional capacity. In order to allow them to do
 23 this, and instead of purchasing a larger share of the
 24 unit at an early date, FPL has agreed to assume 150
 25 megawatts of JEA's UPS obligation under their 1982 UPS

Agreement with Southern Companies as of the date of the first closing, at which time JEA would purchase the equivalent of 150 megawatts of capacity from Scherer Unit No. 4. In return, JEA would provide FPL with firm transmission capacity to accommodate all of FPL's UPS and Scherer Unit No. 4 firm capacity purchases.

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8 Q. Given that there are many agreements yet to be negotiated, what assurances does FPL have regarding the total costs of Scherer Unit No. 4?

While final agreements have yet to be concluded, the key 11 A. parameters affecting the costs of the Unit have been 12 agreed upon by the parties. These include the purchase 13 price, the basis for the fuel supply and operation and 14 maintenance agreements, and the transmission from JEA and 15 16 Southern. Additionally, the performance parameters of Scherer 4, such as heat rate and availability, are well 17 18 understood. Therefore, I am confident that the costs of Scherer Unit No. 4 have been identified with sufficient 19 20 certainty to allow FPL to perform its economic analysis. These key parameters have been reflected in the economic 21 22 analysis conducted by Mr. S. S. Waters.

- 24 Q. Does this conclude your testimony?
- 25 A. Yes, it does.

Plant Description - General

Introduction

Georgia Power Company's (GPC) Plant Scherer is a four-unit, coal fired electric generating plant with each unit nominally rated at 808 MW. Plant Scherer was designed by Southern Company Services, Inc., (SCS) and constructed by GPC using a labor broker contract with Superior Contractors and various specialty subcontractors.

Initially named the Central Georgia Plant, Plant Scherer is located in Monroe County, approximately 17 miles north of Macon, Georgia on a 12,054 acre tract of land. Acquisition of land was begun in 1974 and by the summer of that year land clearing had been started. However, by the end of 1974 GPC was experiencing some financial difficulties which led to the decision to halt construction of the plant. During this interruption of construction, only a small force of GPC construction personnel remained on site. Their work consisted primarily of maintaining equipment and roads, drilling wells and developing a work force plan to be used when construction was resumed. Land acquisition continued during this period, although at a slower rate than originally scheduled.

In early 1975, GPC sold partial interest in several plants, including "Central Georgia," to the Oglethorpe Power Corporation, the Municipal Electric Authority of Georgia, and the City of Dalton, Georgia. This paved the way for the resumption of the construction of the Central Georgia Plant.

In June 1975, the plant was renamed the Robert W. Scherer Electric Generating Plant. Also in late 1975, it was decided the Plant Scherer would be designed, constructed, and initially operated under the project management concept. Under this concept, a team of top management personnel from GPC and SCS was organized as the Project Management Board. In April 1976 a project general manager was appointed and between April and July 1976 the project general manager organized his staff.

In the summer of 1976, construction of Plant Scherer was resumed.

Site Development

Land purchases continued into 1977 and, when completed, a total of 12,054 acres had been acquired. To ensure proper use of project land and that all commitments and obligations to the public were met, GPC appointed a Land Use Task Force in September 1976. This task force was charged with developing an effective land development program and making recommendations for the program's implementation. The program developed by the task force and approved by GPC management would control land use from initial clearing and reservoir development through the completion of construction and the full operation of the plant.

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Major Outside Facilities

Lake Juliette is the largest pond on Plant Scherer containing approximately 104,000 acre-feet of water at normal water surface elevation of 435 feet and having a surface area of approximately 3,600 acres. Lake Juliette is much larger than is usually built for a plant of this size. The larger capacity was made necessary because Rum Creek, which feeds it, does not supply enough water to meet plant needs. In addition, the Ocmulgee River, which is used for pond makeup, under drought conditions cannot be used consistently. The large lake size provides insurance against lack of water and, in addition, enhances the environment by providing a stable wildlife preserve.

The river makeup system for Lake Juliette consists of four 40,000 gal/min vertical Allis-Chalmers pumps having a total head of approximately 110 feet. These pumps are installed at the river intake structure located on the Ocmulgee River and pump approximately one mile through the makeup water pipeline to Lake Juliette.

Service water system makeup is taken directly from the pond. The service water pumps are located on a prefabricated concrete structure extending out over the service water pond. The pumps are manufactured by Allis-Chalmers, and one full-capacity, 19,800 gal/min at 335 feet of total discharge head vertical pump is provided for Unit 1. (A full spare serves each pair of units for a total of six pumps.) The service water pumps supply water for cooling tower makeup, plant services, water plant influent, and ash sluice makeup when the ash sluice recycle supply is low.

The water treatment plant produces filtered and demineralized water for the fire protection storage tanks and the filtered water, condensate, and coal dust suppression systems. All necessary chemicals for demineralizer regeneration and clarifer operation are stored in the water treatment plant or located in bulk storage tanks in the yard.

The cooling tower, manufactured by Research-Cotrell, is a concrete hyperbolic natural draft tower approximately 530 feet high and 400 feet in diameter. The tower is designed to produce a cold water temperature of 88°F with 117.5°F hot water and ambient conditions of 79°F wet bulb temperature and 52% relative humidity and a waterflow 268,300 gal/min. The tower is equipped with a full-flow bypass system, deicing provisions, isolation provisions for maintenance and is completely fire-resistant.

Coal is brought to Plant Scherer in unit trains consisting of 65 to 70 bottom dump coal cars at 100 tons each. The coal unloading and conveyor system is manufactured by Roberts Corporation and feeds to the conveying system by means of vibrating feeders located in the tunnel beneath the coal trestle and dumping area. The conveyors are designed to transport the coal either directly to the powerhouse or to the stockout area. A reclaim conveyor can move coal from the stockout area to the power house as required. A tripper type dumping car is used to deposit coal from the conveying system into the nine coal bunkers. The bunkers deliver the coal by gravity to the gravimetric feeders, which meter the coal to the nine mills located on the base slab. The pulverized coal is picked up by the primary air and fed to the burners through a series of coal pipes.

Units 1 and 2 have electrostatic precipitators designed for hot-side operation; manufactured by Western precipitation. Units 3 and 4 have cold-side electrostatic precipitators manufactured by Lodge-Cotrell.

Major Inside Facilities

Units at Plant Scherer are equipped with a Combustion Engineering boiler and a General Electric turbine-generator. The steam generator and turbine generator will operate in a regenerative feedwater heating cycle with throttle steam conditions of 2,400 psig at 1,000°F/1,000°F and at a rated output of 818,000 kW.

The steam generator is a controlled circulation, radiant reheat, divided steam generator capable of producing 5,789,914 lb/hr of 2,50 psig, 1000°F steam at the super-heater outlet and 5,312,595 lb/hr of 555 psig steam at the reheater outlet. It is designed for balance draft operation and is capable of burning many eastern bituminous and western sub-bituminous coals. The furnace is fired through eight 26 inch, tilting, tangential windbox assemblies with pulverized coal fuel and air. Two half capacity forced draft (FD) fans are installed inside the building on the base slab. The FD fan room, in which the FD fans are installed, is equipped with inlet silencers for sound attenuation. Four quarter-capacity induced draft fans are installed in the precipitator yard.

The General Electric turbine is a hydrogen cooled, tandem compound, 3,600 rpm, four-flow, reheat, condensing turbine-generator with 33.5 inch, last-stage buckets. Stop valve steam conditions are 2,400 psig at 1000°F. The steam passes through the three stop valves and four control valves and enters the turbine. At the high pressure stages, the steam is then returned to the reheat section of the boiler. The reheated steam returns to the turbine through the combined reheat stop and intercept valves. Steam then flows into the reheat section, divides and flows out into the crossover pipe and into the low pressure section. After passing through the low pressure section, the steam is exhausted downward into the condenser.

The General Electric generator is a 990,000 kVA, 3,600 rpm, direct connected, three phase, 60 cycle, 25,000 V, conductor cooled synchronous generator rated at 0.90 power factor and 0.50 short circuit ratio at a maximum hydrogen pressure of 75 psig. The generator stator is water cooled, using a deionized water system and a heat exchanger that is cooled by service water. The generator rotor is hydrogen cooled with a gas pressure of 75 psig.

The gas is then cooled by hydrogen coolers using service water. Lubricating oil is supplied from the main turbine oil system, with a separate seal oil system for the hydrogen seals. The main power leads are brought out through the lower frame extension for the connection by means of porcelain insulated high voltage bushings. The generator is excited and controlled by means of an Alterrex excitation system, with the alternator being directly coupled to the generator shaft.

Electrical output from the generator is transformed from the generator voltage of 25 to 500 kV by means of step-up transformers, which are forced oil, forced air cooled and delta-wye connected. Startup station service is provided from a 115 kV high line by means of the start station transformer.

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The condenser was manufactured by Foster-Wheeler and is located beneath the turbine low pressure stages on the base slab. It is a twin-shell, series-flow, multipressure condenser with separate inlet connections on each condenser shell for the exhaust steam from a boiler feed pump auxiliary turbine drive. Total effective surface area is 540,000 ft², composed of 42 foot long and one inch outside diameter tubes. A condenser tube cleaning system manufactured by Amertap is installed on each condenser.

Cooling water is recycled through the condenser and cooling tower by means of two Ingersol-Rand circulating water pumps having a total capacity of 260,000 gal/min at 65 TDH. Circulating water makeup is provided from the service water system.

Three 50% capacity, rotary type mechanical vacuum pumps are provided to remove air leakage and noncondensables from each shell to maintain condenser vacuum.

Condensate is taken from the 30,000 gallon capacity condenser hotwell by Byron-Jackson condensate pumps and pumped forward through the steam packing exhauster, condensate polisher, and the four low pressure heaters to the deaerator. The condensate pumps are the vertical can-type, high head pumps rated at 5,720 gal/min and 1,085 feet total head. Redundancy in the condensate system is accomplished by providing three 50% capacity condensate pumps with the third pump used as a spare. The four full sized Yuba low pressure feedwater heaters are in a single train and are the two pass horizontal, U-type with elliptical heads and admiralty tubes. The heaters are also equipped with condensing and drain cooling sections.

The deaerating feedwater heater is used as the fifth heater and deaerates the feedwater supply to the steam generator. It is a Chicago heater horizontal, open, direct contact type using a combination of spray nozzles and stainless steel trays, as the principal means of deaeration. Feed pump suction is taken from the deaerator.

The primary boiler feed pumps system consists of two half capacity, turbine driven horizontal feed pumps. The Byron-Jackson feed pumps are four-stage, 5,800 rpm pumps of the dual volute design with double suction first stage impellers. The design capacity of each pump is 7,750 gal/min with a net dynamic pumping head of 7,973 feet of water at 382°F. The secondary feed pump system consists of one additional feed pump per unit with an electric motor utilized as the driver. Since an 1800 rpm motor is utilized, a speed increaser gear is required to increase the pump speed, and a hydraulic coupling is used for control. The secondary feed pump system will serve as a startup system and as an online spare in he event of one of the turbine driven feed pumps is out of service. Feedwater from the boiler feed pump system passes through the high pressure heaters before entering the steam generator. The four horsepower heaters are manufactured by Marley and are half-sized feedwater heaters in a dual train. The heaters are the two-pass, horizontal U-type with hemispherical heads, monel tubes, and desuperheating, condensing, and drain cooling sections.

Two auxiliary oil-fired Combustion Engineering boilers were installed on Unit No. 1. These boilers serve as a source of auxiliary steam for chemical

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cleaning and for unit startup requirements. Each boiler produce 175,000 lb/hr of 250 psig steam at 520°F.

Projected Heat Rate Data

The following equations represent the projected net and gros Scherer Unit 4.

Net = 773.924/P + 7.216 + .00129P Gross = 625.596/P + 7.051 + .00125P

The projected values at minimum/maximum load are as follows:

Average Heat Rate
(MMBTU/MWH)
Minimum Maximum
Net 10.011 9.223
Gross 9.276 8.863



July 30, 1990

Georgia Power Company Post Office Box 4545 Atlanta, Georgia 30302

Attention: Mr. F.D. Williams

Alabama Power Company, Georgia Power Company, Gulf Power Company, Mississippi Power Company and Savannah Electric and Power Company ("Southern Companies") c/o Southern Company Services, Inc. Post Office Box 2625
Birmingham, Alabama 35202

Attention: Mr. R.O. Usry

Jacksonville Electric Authority 21 West Church Street Jacksonville, Florida 32202-3139

Attention: Mr. Royce Lyles

Re: Letter of Intent regarding (1) Florida Power & Light Company's ("FPL") and Jacksonville Electric Authority's ("JEA") proposed purchases of undivided ownership interests in Unit 4 of Plant Scherer and (2) transmission of the energy associated with FPL's and JEA's proposed ownership interests in Unit 4 of Plant Scherer to their respective interconnection points with Southern Companies.

Gentlemen:

This Letter of Intent, when fully executed in the spaces provided below by authorized representatives of Georgia Power Company ("GPC"), Southern Companies, JEA, and FPL, shall evidence the present mutual intent of the parties relative to the above captioned topics, all as more fully set forth and described below. FPL intends that its proposed purchase of ownership

on FPL Group company

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interests in Unit 4 of Plant Scherer will provide energy and capacity to FPL at a delivered price below FPL's cost of duplication. It is the parties' intent to negotiate promptly to arrive at mutually satisfactory terms and conditions which shall be based on the following principles:

- 1. FPL and JEA, respectively, will agree to purchase, and GPC will agree to sell, undivided ownership interests in Unit 4 of the Robert W. Scherer Electric Generating Plant, a coal-fired electric generating unit having a demonstrated nominal current net output of 846 MW, located in Monroe County, Georgia ("Unit 4 of Plant Scherer" or "Unit"). The undivided ownership interests which FPL and JEA will be purchasing in Unit 4 of Plant Scherer specifically include commensurate undivided ownership interests in all Plant Scherer common facilities (including land), fuel stock, materials and supplies, governmental permits, engineering records and drawings, operation and maintenance procedure manuals, and existing warranties. FPL and JEA would also be entitled to any emission and other such environmental allowances associated with their respective undivided ownership interests in the Unit as a result of the contemplated amendments to the Clean Air Act or any other legislative or regulatory action.
- The parties intend that FPL will purchase, and GPC will sell, an aggregate of 76.36 percent of the Unit on the schedule set forth below:

	Ownership	
Closing Dates	Percentages	Payment
January 1, 1991	17.73	\$147,900,000
June 1, 1993	31.44	252,434,000
June 1, 1994	16.55	131,740,000
June 1, 1995	10.64	83,430,000
Total	76.36	\$615,504,000

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The payment for the first ownership percentage (scheduled for January 1, 1991) is subject to reduction by the actual depreciation incorporated in the charges paid by FPL in connection with the purchase of Initial UPS (described in paragraph 14) and the purchase of 1991 UPS (described in paragraph 15).

In the event that FPL does not purchase, or purchases less than the amounts shown above, JEA and GPC will meet as soon as practicable to determine whether and to what extent JEA and GPC desire to go forward with the purchases of ownership interests in the Unit set forth in paragraph 3 hereof.

3. The parties intend that JEA will purchase, and GPC will sell, an aggregate of 23.64 percent of the Unit on the schedule set forth below:

Closing Dates	Ownership Percentages	Payment
January 1, 1991	17.73	\$147,900,000
June 1, 1995	5.91	46,350,000
Total	23.64	\$194,250,000

To the extent that JEA does not purchase, or purchases less than the amounts shown above, FPL will be afforded an opportunity to purchase such amounts at such cost and on such Closing Dates if mutually acceptable transmission arrangements can be negotiated among the parties.

4. By virtue of their respective undivided ownership interests, FPL and JEA will be entitled to corresponding percentages of Unit 4 of Plant Scherer's net output (i.e., after deduction of any Plant Scherer station service for which Unit 4 of Plant Scherer is responsible and net of losses to the respective interconnection points with FPL and JEA described below). It is the intent of the parties to negotiate equitable provisions such that, to the extent of FPL's and JEA's

ownership interests, Unit 4 of Plant Scherer would be dispatched to meet their respective

requirements.

GPC will provide transmission services to transmit the energy associated with FPL's

ownership interests in Unit 4 of Plant Scherer to the interconnections with FPL established by

the Interchange Contract between Southern Companies and FPL dated October 18, 1979, as

amended. GPC will also provide transmission services to transmit the energy associated with

JEA's ownership interests in Unit 4 of Plant Scherer to the interconnections with JEA

established by the Interchange Contract between Southern Companies and JEA dated February

27, 1981, as amended. It is understood that the provision of such services may require GPC to

reach certain agreements with its joint transmission owners on reasonable terms. The rate

charged to FPL and JEA for this transmission service will be a formula rate resulting in charges

similar to those shown on Attachment A hereto. This rate will recognize GPC's embedded

transmission cost, a scheduling fee, a reactive charge, and an interface component.

On and after the Closing Dates specified in paragraphs 2 and 3 above, both FPL and JEA

will pay for all fuel received under all existing contracts for Plant Scherer based upon their

respective aggregate ownership percentage at various points in time multiplied by 25 percent.

An estimate of the fuel volumes for which FPL and JEA will assume purchase responsibility is

included in Attachment B hereto. FPL and JEA, respectively, will assume ownership of that

amount of fuel and will pay for the fuel pursuant to arrangements to be negotiated between the

parties. FPL and JEA will be allowed to participate in the procurement decision process for all

future fuel supply (including renewals of or amendments to existing contracts). The terms and

conditions and extent of such participation will be determined in the definitive agreements. GPC

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has assured FPL and JEA that they will be given the opportunity for participation in long-term coal supplies for Plant Scherer pursuant to bids that GPC is currently considering in an attempt to achieve the average cost for fuel referred to below. Subject to the confidentiality agreement referenced in paragraph 19, GPC will, within ten days of the date hereof, provide to FPL copies of such bids, the co-owner agreements related to Plant Scherer, and the existing fuel contracts so that FPL may satisfy itself that the expected average cost of fuel at the Unit will be competitive with long-term market prices for comparable fuel. Subject to the confidentiality agreement referenced in paragraph 19, GPC will, within ten days of the date hereof, make available to JEA the same information at the offices of GPC. If FPL or JEA determines that the expected average cost of fuel will not be competitive with long-term prices for comparable fuel, FPL and JEA shall each have the right to terminate its respective rights and obligations under this Letter of Intent as of the date of such determination. The parties acknowledge that the definitive operating and fuel agreements will contain provisions intended to implement such average cost.

7. Southern Companies will use best reasonable efforts to offer to sell energy necessary for both FPL and JEA to achieve the equivalent of a 90 percent capacity factor from their respective ownership interests in Unit 4 of Plant Scherer. The time period during which such energy will be made available has not yet been established and will be the subject of further discussions, but it will be available until at least December 31, 1994. Energy sold to FPL will be priced at the average of Southern Companies' incremental energy cost and FPL's decremental energy cost, but in no event less than Southern Companies' incremental energy cost. Energy sold to JEA will be priced at the average of Southern Companies' incremental energy cost and JEA's decremental

energy cost, but in no event less than Southern Companies' incremental energy cost. These

energy transactions shall take precedence over any economy transactions of Southern Companies.

8. It is understood that transmission limitations may exist prior to June 1993 that could inhibit

FPL's ability from time to time to transmit its ownership entitlement from Unit 4 of Plant

Scherer or the power purchases described in paragraphs 14 and 15 hereof into its service

territory. As a result, GPC will have the use of such energy and will "bank" FPL's energy

entitlement. FPL will have the right to receive such "banked" energy when said transmission

constraints are eliminated. The "banking" mechanisms will be designed so that the energy

withdrawn has reasonably equivalent value (cost- and time-wise) to the energy which was

"banked."

Southern Companies will utilize best reasonable efforts to negotiate with electric utilities

in peninsular Florida for the construction of additional transmission facilities so as to increase

the Southern/Florida interface in an effort to make an additional 500 MW of interface capability

available to FPL. Provision for expansion of transmission facilities satisfactory to FPL is a

condition to FPL's purchase of ownership interests in Unit 4 of Plant Scherer.

10. It is understood that the ownership purchase by FPL and JEA in Unit 4 of Plant Scherer

will require amend, ents to the two Unit Power Sales ("UPS") Agreements between the Southern

Companies and FPL dated February 18, 1982 and July 20, 1988, and between Southern

Companies and JEA dated May 19, 1982 and August 17, 1988, respectively. Specifically, (i)

FPL's and JEA's early options for capacity under the 1988 UPS Agreements will be reduced to

reflect the ownership interests purchased from Unit 4 of Plant Scherer and (ii) UPS Sales from

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Unit 4 of Plant Scherer under the 1982 UPS Agreements will be replaced by sales from other

units covered by said agreements in a mix of quantities such that the aggregate cost of the

replacement capacity will be comparable to, but not greater than, the total capacity charges for

the replaced capacity. The parties also intend that JEA will assign, and FPL will assume 37.5

percent of JEA's rights and obligations for unit power capacity and energy under the UPS

Agreement between JEA and Southern Companies dated May 19, 1982. This assumption will

be provided for in the definitive agreements and by appropriate assignment to FPL of JEA's

rights and obligations under the May 19, 1982 UPS Agreement between JEA and Southern

Companies. Southern Companies will agree to accept such assignment.

11. The parties understand that the definitive agreements contemplated by this Letter of Intent

shall include provisions for: (a) purchases and sales of interests in Unit 4 of Plant Scherer and

other facilities to be transferred; (b) transmission expansion and service; (c) operation and

maintenance of Unit 4 of Plant Scherer and the other facilities; (d) fuel supply; (e) UPS sales

from Southern Companies to FPL; and (f) assignment to FPL of certain rights and obligations

of JEA under the May 19, 1982 UPS Agreement with Southern Companies. The operation and

maintenance agreement, pursuant to which GPC will operate and maintain Unit 4 of Plant

Scherer for the benefit of its owners, will include mutually acceptable provisions to reflect, among

other things, appropriate operation and maintenance expenses, appropriate administrative and

general expenses, and an appropriate operating fee. The parties contemplate that the definitive

operation and maintenance agreements will incorporate a "pay for performance" concept.

12. The parties further understand that FPL and JEA have agreed in principle on the terms,

conditions, and pricing of transmission services that will provide for the transactions

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contemplated by this Letter of Intent, including (i) transmission interface allocation and (ii)

transmission service to permit FPL to transmit its ownership output from Unit 4 of Plant Scherer,

the output assigned to FPL in connection with the May 19, 1982 UPS agreement between JEA

and Southern Companies, and the power purchases described in paragraphs 14 and 15 into FPL's

service territory. The transactions contemplated by this Letter of Intent are contingent upon

execution of definitive agreements between JEA and FPL to provide for the foregoing.

13. FPL, JEA, and GPC intend that the normal incidents of tenancy in common, including but

not limited to the rights to a sale for division, an accounting, and a partition, shall, unless

otherwise agreed, have no application to the sales to FPL and JEA of ownership interests in Unit

4 of Plant Scherer and the common facilities (including land), fuel stock, and materials and

supplies. It is intended that FPL, JEA, GPC and other co-owners, if any, will have no rights as

tenant in common other than those specifically enumerated in the definitive agreements for the

purchase and operation of the Unit.

14. By September 1, 1990, FPL will agree to purchase 300 MW of unit power capacity from

GPC (Initial UPS') and execute a contract for filing with the Federal Energy Regulatory

Commission by such date. Initial UPS will be at rates and terms and conditions substantially

similar to that contained in the UPS Agreement between Southern Companies and FPL dated

February 18, 1982 as amended, except that transmission charges shall be determined in a manner

similar to that provided for in paragraph 5. Initial UPS shall have a term of November 1, 1990

to December 31, 1990 and will be structured so that 248 MW of net dependable capacity is

dedicated to the sale from Unit 4 of Plant Scherer and 52 MW from Unit 3 of Plant Scherer.

FPL and JEA have agreed in principle on the terms, conditions, and pricing of transmission

Florida Power & Light Company Docket No. _____ Witness: G. R. Cepero services necessary to allow this sale to commence on November 1, 1990; however, the sale of Initial UPS is contingent upon execution of a definitive transmission agreement between FPL and JEA by September 15, 1990. The contract for Initial UPS is to be executed by FPL by September 1, 1990 and will otherwise only be contingent upon FPL's determination (to be completed by September 15, 1990) that it is feasible to obtain the expected average fuel cost referred to in paragraph 6. It is understood that FPL will be responsible for all transmission charges or fees to JEA. In the event the contract for Initial UPS is not executed by September 1, 1990 or FPL terminates such contract on or before September 15, 1990, this Letter of Intent shall immediately terminate on such dates. The contract for Initial UPS shall otherwise survive the termination of this Letter of Intent or the failure of the parties to execute definitive agreements for the sale and purchase of ownership interests in Unit 4 of Plant Scherer.

15. Except for the initial UPS described in paragraph 14, the parties recognize that the transactions contemplated by this Letter of Intent will be contingent on the occurrence of the following events: (i) the provisions described in paragraphs 10, 11, and 12 above are reached on terms expressly determined to be satisfactory to the respective boards of directors of GPC and FPL, respectively, and, in the case of JEA, the Jacksonville Electric Authority Board and the City Council of the City of Jacksonville, Florida; (ii) execution of the definitive agreements on or before December 31, 1990; and (iii) all regulatory consents and approvals, including those from the Federal Energy Regulatory Commission, the Securities and Exchange Commission, and the Florida Public Service Commission, have been received. In the event the parties are unable to obtain necessary regulatory approvals and consents by December 31, 1990 in order to allow the first closing of a sale of an ownership interest in the Unit by January 1, 1991, the definitive agreements will contain provisions which commit GPC to sell and FPL to purchase 300 MW of

unit power capacity beginning January 1, 1991 and continuing through June 30, 1991 (*1991 UPS"). The composition and pricing of the 1991 UPS will be identical to the Initial UPS described in paragraph 14. Subject to the fifth succeeding sentence below, FPL will have the sole option to terminate the 1991 UPS before June 30, 1991 if any conditions precedent have not been satisfied or waived on the later of the following dates: (i) a date 90 days after the execution of the definitive agreements or (ii) a date 60 days after FPL receives an order of approval or consent of the Florida Public Service Commission. In the event of an adverse decision (by public vote or order) by the Florida Public Service Commission, FPL shall have the right to terminate the 1991 UPS upon 30 days written notice. In the event of disapproval by the Securities and Exchange Commission or the Federal Energy Regulatory Commission, FPL shall have the right to terminate the 1991 UPS immediately. In the event that the Federal Energy Regulatory Commission's or the Securities and Exchange Commission's approval has not been received by June 30, 1991, the parties may by mutual agreement continue the 1991 UPS past June 30, 1991 for a reasonable period and extend the closing date appropriately. The terms and conditions of such extension are subject to negotiation for inclusion in the definitive agreements. In all events, the 1991 UPS will terminate upon the closing of the first sale of an ownership interest in the Unit.

Further, the parties recognize and understand that Units 1, 2, and 3 of Plant Scherer, the Plant Scherer common facilities, and the Plant Scherer coal stockpile are currently co-owned by GPC and other co-owners and are subject to existing ownership and operating agreements among GPC and the other co-owners which establish rights and obligations of GPC and other co-owners. The parties will strive to negotiate agreements which are consistent with such existing agreements. If the agreements to be negotiated between GPC, FPL, and JEA, respectively relating to FPL's and JEA's purchase of interests in Unit 4 of Plant Scherer are inconsistent with

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such existing agreements, GPC will use best reasonable efforts to obtain mutually satisfactory

resolution with the co-owners.

a subsidiary or affiliate provided that FPL provides adequate assurance to GPC that GPC will not be adversely affected by such assignment and that the assignee is, in GPC's judgment, FPL shall have the right to assign all or a part of its rights under this Letter of Intent to

financially responsible. In any event, GPC must give prior consent to the assignment in writing:

provided, however, that such consent will not be unreasonably withheld

any party other than FPL and JEA concerning the purchase and sale of Unit 4 of Plant Scherer.

It is understood that during the term of this Letter of Intent GPC will not negotiate with

After December 31, 1990, GPC will have the right to negotiate with other parties concerning

the sale of the Unit subject to FPL's and JEA's rights established in the definitive agreements.

contemplated hereby shall be made except after mutual consultation and consent, provided

The parties agree that no public or other announcement concerning the transactions

however, that (i) each party shall be permitted to make such disclosures to the public or to such

governmental agencies as its counsel may deem reasonably necessary to comply with applicable

laws or to respond to regulatory concerns; and (ii) each party may make such disclosures as may

be necessary in the attrapt to reach agreement with any party with whom an agreement is

contemplated by this Letter of Intent.

During the negotiation of the provisions described in paragraph 11 above, FPL and JEA

shall have the right (upon execution of a confidentiality agreement in a form and substance

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acceptable to GPC) to review all accounting records, engineering and maintenance reports, all

existing co-owner agreements related to Plant Scherer, and other operating and environmental

data and other agreements related to Plant Scherer, to perform physical inspections and audits

of the Plant site, and to interview Plant management.

20. It is understood that GPC will be solely responsible for all Federal and Georgia state tax

consequences incurred on the Closing Dates of the sale of Unit 4 of Plant Scherer, including, but

not limited to, Federal and Georgia state income taxes and Georgia state sales taxes and Georgia

state transfer tax, if any. GPC will be responsible for all recording fees and filing fees, if any.

FPL and JEA will use Georgia counsel, acceptable to GPC, for title and recording matters. As

part of each closing GPC will deliver to FPL and JEA a limited warranty deed and bill of sale

evidencing the transfer to FPL and JEA of insurable fee simple title to their undivided ownership

interests in Plant Scherer.

21. Except for the right to review certain agreements contained in paragraph 6 and as otherwise

provided in paragraphs 17, 18, and 19 hereof, this Letter of Intent is not intended to constitute

an agreement which will be legally binding on any of the parties and is not intended to be relied

upon by the parties as constituting a final agreement. This Letter of Intent is written with the

understanding that, except for the right to review certain agreements contained in paragraph 6

and as otherwise provided in paragraphs 17, 18, and 19, no party will be bound by any of its

terms until negotiations have been concluded and definitive agreements have been executed

covering all of the foregoing matters and any additional matters the parties deem appropriate.

This Letter of Intent is intended to be an expression of the parties' respective intentions and of

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the parties' willingness to continue to negotiate in a good faith effort to reach definitive

agreements.

22. GPC, JEA, and FPL will utilize best reasonable efforts to obtain on a timely basis all

necessary and contemplated regulatory approvals in order to consummate the transactions

contemplated in this Letter of Intent. Upon receipt of all necessary and contemplated regulatory

approvals and satisfaction of all conditions precedent, the parties will take actions, as soon as

reasonably practicable, to close the first sale of ownership interests provided for in paragraphs

2 and 3 hereof.

23. In the definitive agreements, GPC will grant to FPL and JEA for a term ending December

31, 1994 a contemporaneous right of first refusal on any future offers of sale of an undivided

ownership interest in Unit 3 of Plant Scherer (other than offers to other affiliates and subsidiaries

of The Southern Company or third parties located within the State of Georgia). JEA's

contemporaneous right of first refusal will apply to 50 percent of the ownership interests offered

for sale from Unit 3 of Plant Scherer until JEA has obtained a right to a maximum of 50 MW

of ownership interest, after which JEA's right of first refusal will cease.

24. Unless otherwise provided herein, this Letter of Intent shall terminate on December 31,

1990.

Florida Power & Light Company Docket No._____

Witness: G. R. Cepero

Exhibit No. Document No. 2.
Page 13 of 18

If the foregoing correctly reflects our mutual understanding, please execute the enclosed copy of this Letter of Intent.

Very truly yours,

FLORIDA POWER & LIGHT COMPANY

By: Executive Vice President	Date:
AGREED TO: GEORGIA POWER COMPANY	
By Full Wh.	Date: July 31 1990
SOUTHERN COMPANY SERVICES, INC. as Agent for the Southern Companies	
By: Robert O. Mary	Date: <u>Jucy 3/</u> , 1990
JACKSONVILLE ELECTRIC AUTHORITY	
By: Age he Managing Director	Date: 7-3/-96 1990
APPROVED AS TO FORM: By: Edwarde. Termen	Date:, 1990

Florida Power & Light Company Docket No.______ Witness: G. R. Cepero Exhibit No._____ Document No.2____ Page 14 of 18

Attachment A

PROJECTED TRANSMISSION RATES FOR OWNERSHIP INTEREST IN SCHERER 4

Year	GPC Embedded Transmission Estimates	Reactive Charge	Scheduling Charge	Interface Improvement	Total Estimated Transmission Cost
	(1)		(2)	(3)	
	\$/kw-mo	\$/kw-mo	\$/kw-mo	\$/kw-mo	\$/kw-mo
1				***************************************	
1991	1.10	0.25	0.07	0.00	1.42
1992	1.11	0.24	0.07	0.00	1.42
1993	1.15	0.23	0.07	0.00	1.45
1994	1.13	0.23	0.07	0.00	1.43
1995	1.22	0.22	0.07	0.29	1.80
1996	1.27	0.22	0.07	0.28	1.84
1997	1.34	0.21	0.07	0.27	1.89
1998	1.37	0.21	0.07	0.27	1.92
1999	1.41	0.20	0.07	0.26	1.94
2000	1.47	0.20	0.07	0.25	1.99
2001	1.55	0.20	0.07	0.24	2.06
2002	1.61	0.19	0.07	0.24	2.11
2003	1.66	0.19	0.07	0.23	2.15
2004	1.72	0.18	0.07	0.22	- 2.19
2005	1.78	0.18	0.07	0.22	2.25
2006	1.83	0.18	0.07	0.21	2.29
2007	1.89	0.18	0.07	0.20	2.34
2008	1.95	0.18	0.07	0.20	2.40
2009	1.99	0.18	0.07	0.19	2.43
2010	2.15	0.18	0.07	0.19	2.59
2011	2.28	0.18	0.07	0.18	2.71
2012	2.34	0.18	0.07	0.18	2.77
2013	2.40	0.18	0.07	0.17	2.82
2014	2.40	0.18	0.07	0.17	2.82
2015	2.50	0.19	0.07	0.16	2.92
2016	2.60	0.19	0.07	0.16	3.02
2017	2.71	0.19	0.07	0.16	3.13
2018	2.82	0.19	0.07	0.16	3.24
2019	2.93	0.20	0.07	0.16	3.36
2020	3.05	0.20	0.07	0.15	3.47
2021	3.17	0.20	0.07	0.15	3.59
2022	3.30	0.21	0.07	0.15	3.73
2023	3.43	0.21	0.07	0.15	3.86
2024	3.57	0.22	0.07	0.15	4.01

NOTES:

- Embedded estimates reflect costs at the Scherer bus and do not provide for loss compensation to the Southern Companies/Florida interface.
- (2) Based on levelized costs for expenses charged to Account 556 System Control and Load Dispatch.
- (3) Figures reflect estimated costs for a 1500 MW interface improvement.

PROJECTED PLANT SCHERER COAL VOLUMES FOR WHICH FPL AND JEA WILL ASSUME RESPONSIBILITY

Year	FPL Projected Coal Volumes (1) (2) Tons	JEA Projecte Coal Volume (1) (2) Tons
	-	
1991	89,982	99,982
1992	112,145	112,145
1993 Jan-May Jun-Dec	46,727 181,426	46,727 65,418
1994 Jan-May Jun-Dec	129,590 242,483	46,727 65,418
1995 Jan-May Jun-Dec	173,202 281,734	46,727 87.224
1996	482,973	149,527
1997	379,092	117,366
1998	286,348	88,652
1999	286,348	88,652
2000	286,348	88,652
2001	286,348	88,652
2002	286,348	88,652
2003	286,348	88,652
2004	286,348	88,652
2005	286,348	88,652
2006	286,348	88,652
2007	286,348	88,652
2008	286,348	88,652

NOTES:

- (1) Volumes for 1991 assume a January 1, 1991 closing date.
- (2) One of the coal contracts has a 5 year term that can begin from January 1, 1992 through January 1, 1994, to be determined by GPC. For purposes of this projection it was assumed to begin on January 1, 1992.



July 30, 1990

Jacksonville Electric Authority P. O. Box 53015 Jacksonville, FL 32202

Re: (1) Transmission Service by Jacksonville Electric Authority ("JEA") to Florida Power & Light Company ("FPL") in connection with the proposed purchases of undivided ownership interests in Unit 4 of Plant Scherer; (2) allocation of the Florida-Georgia Transmission Interface; and (3) assumption by FPL of a portion of JEA Obligations under the JEA-Southern Company Services, Inc. 1982 UPS Agreement

Gentlemen:

This Letter of Intent, when fully executed in the spaces provided below by authorized representatives of FPL and JEA, shall evidence the present mutual intent of the parties relative to the above-captioned topics, all as more fully set forth and described below. It is the general intent of the Parties that FPL will assume responsibility for approximately 150 MW of JEA UPS Obligations (as hereinafter defined) starting in 1991 to enable JEA to immediately acquire an equivalent 150 MW ownership share in Unit 4 of Plant Scherer. In consideration of the above, JEA will provide FPL the necessary firm transmission service to fully accommodate purchases (i) under the Southern Company Services, Inc. ("SCS") - FPL 1982 UPS Agreement ("1982 UPS"); (ii) of the JEA UPS Obligations (as hereinafter defined); and (iii) of 150 MW of the Initial UPS and the 1991 UPS (as such terms are defined in the Letter of Litent, dated as of July 27, 1990 (the "Scherer 4 Letter of Intent") among Georgia Power Corporation ("GPC"), SCS, JEA and FPL). The rate for (i) above shall be \$0.79/kW-month which is the effective rate under the Transmission Line Capacity Rights Agreement between FPL and JEA, dated as of January 1, 1985 (the "Capacity Agreement" and such rate, the "Existing Transmission Service Rate"). The rate for (ii) and (iii) above shall be

an FPL Group company

Page 2 July 30, 1990

\$0.54/kW-month (hereinafter referred to as the "New Transmission Service Bate"). Furthermore, JEA will provide FPL the necessary firm transmission service to fully accommodate (i) purchases under the SCS - FPL 1988 UPS Agreement ("1988 FPL UPS") (excluding FPL early option); (ii) 150 MW of Initial UPS and 1991 UPS; and (iii) deliveries of power pursuant to FPL's ownership interest of Unit 4 of Plant Scherer ("Scherer Unit 4") all at the rate of \$1.53/kW-month (hereinafter referred to as the "Firm Transmission Service Rate"). It is the parties' intent to negotiate promptly to arrive at mutually satisfactory terms and conditions which shall be based on the following principles:

- 1. Effective upon approval of the Parties, the Capacity Agreement will be amended to increase the amount of firm transmission service by 45 MW (from 2025 MW to 2070 MW) through December 31, 1992. The rate for this additional 45 MW of transmission service will be the Existing Transmission Service Price. In addition, the expiration date of the Capacity Agreement will be extended from December 31, 1992 through May 31, 1993 and the amount of firm transmission service provided by JEA during such extension period will be adjusted to permit FPL to receive approximately 1717 MW of deliveries under the 1982 UPS (amounting to approximately 125 MW of firm transmission service as more fully detailed in Table I attached hereto) at the Existing Transmission Service Price.
- 2. Contemporaneously with the effectiveness of the agreement for initial UPS but not sooner than November 1, 1990, JEA will provide PPL with an additional 300 MW of firm transmission service to accommodate deliveries of Initial UPS and 1991 UPS. The rate for 150 MW of this transmission

warmout the Lieutric Authority Page 3 July 30, 1990

service will be at the Firm Transmission Service Price and for the remaining 150 MW at the New Transmission Service Price.

- 3. The arrangements for 300 MW of additional transmission service described in paragraph 2 hereof will continue so long as FPL is purchasing capacity under initial UPS or 1991 UPS. It is understood that any transmission service for Initial UPS or 1991 UPS beyond June 30, 1991 will require the separate mutual agreement of the parties and will extend only for a reasonable period.
- 4. At the first Closing (the "Closing") under the Scherer 4 Purchase Agreement to be entered into as contemplated in the Scherer 4 Letter of intent, FPL and JEA will each purchase an undivided 17.73% ownership interest in Scherer Unit 4. Contemporaneous with such purchases FPL will assume 150 MW of JEA's power purchase obligations ("JEA UPS Obligations") under the Unit Power Sale Agreement dated May 19, 1982, between JEA and Southern Company Services, Inc. (the "JEA 1982 UPS Agreement"), (FPL's assumption to be reduced commencing on January 1, 1993 until May 31, 1995) so that the capacity which FPL is obligated to purchase will equal the product of (a) the total capacity available under JEA 1982 UPS Agreement multiplied by (b) a fraction the numerator of which is 150 and the denominator of which is 400. Table 1, attached hereto, more fully sets forth the amounts of JEA UPS Obligations assumed by FPL and as so reduced. The rate payable by FPL for such capacity shall be equal to the effective rate payable by JEA for JEA UPS Obligations.
- 5. Effective upon the Closing and as set forth in Table 1 attached heretos

Florida Power & Light Company Docket No. Witness: G. R. Cepero Exhibit No. __ Document No. 3

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July 30, 1990

(a) JEA will provide to FPL, at the New Transmission Service Price, up to 150 MW of firm transmission service to accommodate the JEA UPS Obligations assumed by FPL. This transmission service will be provided for the amount and term described in paragraph 4 hereof.

(b) JEA will also provide to FPL, at the Firm Transmission Service Price, up to 160 MW of firm transmission service to accommodate FPL's ownership interest in Scherer Unit 4 and 1988 FPL UPS obligations. This transmission service will be provided until FPL has sufficient transmission capacity to accommodate all firm deliveries from Southern Company and Scherer Unit 4.

6. FPL and JEA agree that, based on a total interface capacity of 3,200 MW with 416 MW allocation to Florida Power Corporation, FPL is entitled to 1492 MW and JEA is entitled 1292 MW. Additionally, FPL and JEA agree that the next increase of 100 MW in Total Base Import Capability (as defined in Section 1.15 of the Florida/Southern Transmission Interface Allocation Agreement (the "Interface Agreement") dated May 14, 1990) which is assigned to JOP (as defined in the Interface Agreement) will be allocated to FPL if FPL can reasonably demonstrate that FPL has taken actions causing such increase; provided, however, that if FPL cannot so demonstrate then FPL shall receive 80 MW of such increase and JEA shall receive 20 MW. The parties agree that future increases in import capacity beyond the 100 MW contemplated above will be allocated to the party responsible for such increase. The parties agree that the definitive agreements shall address the circumstance where JOP receives an assignment under the interface Agreement and FPL and JEA cannot reasonably and in good faith allocate

Florida Power & Light Company
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such assignment between themselves. Furthermore, FPL and JEA agree to enter into and amend any agreements necessary to accomplish the intent of this paragraph 6.

- 7. The Parties acknowledge that the transmission amounts set forth herein and in Table I attached hereto are nominal amounts based upon currently available information and as such may require adjustment for variations due to actual system conditions or updated planning information.
- 8. FPL and JEA agree that no public or other announcement concerning the transactions contemplated hereby shall be made except after mutual consultation and consent, provided, however, that (i) each party shall be permitted to make such disclosures to the public or to such governmental agencies as its counsel may deem reasonably necessary to comply with applicable laws or to respond to regulatory concerns; and (ii) each party may make such disclosures as may be necessary in the attempt to reach agreement with any party with whom an agreement is contemplated by this Letter of Intent.
- 9. Except as provided in paragraph 8 hereof, this Letter is not intended to constitute an agreement which will be legally binding on any of the parties and is not intended to be relied upon by the parties as constituting a final agreement. This Letter is written with the understanding that, except as provided in paragraph 8, no party will be bound by any of its terms until negotiations have been concluded and definitive agreements have been executed covering all of the foregoing matters and any additional matters the parties deem appropriate. This Letter is intended to be an expression of our

Jacksonville Electric Authority Page 6 July 30, 1990

respective intentions and of our willingness to continue to negotiate in a good faith effort to reach definitive agreements.

10. Unless otherwise provided herein, this Letter of Intent shall terminate on December 31, 1990.

If the foregoing correctly reflects our mutually understanding, please execute the enclosed copy of this Letter of Intent.

Very truly yours,

FLORIDA POWER & LIGHT COMPANY

By Rf Jaylor 7/31/90

Agreed to as of the date first above written:

JACKSONVILLE ELECTRIC AUTHORITY

1

- 31 190

APPROVED AS TO FORM:

By: Edward C. Tannen

(Note: This Table and the figures below are for illustration and explanation purposes only.)

SUMMARY OF PROJECTED TRANSMISSION SERVICE

REO	UIREMENT:	CHAZ	RATES
4 8 Ba Ge	Phana se tan um ta a a c	S LORGER	6754 1 2 3

DATE	1) FPL/JEA INTERFACE CAPACITY (MW)	2) FPL 1982 UPS (MW)	TRANSMISSION SERVICE TO FPL AT EXISTING RATES (MW)	4) JEA 1982 UPS (MW)	5) TRANSMISSION SERVICE TO FPL AT NEW RATES (MW)	6) 1988 FPL UPS (MW)	SCHERER #4 OWNERSHIP (MW)	7) TRANSMISSION SERVICE TO FPL AT FIRM RATES (MW)	TOTAL DELIVERIES FPL (MW)
11/1/90- 12/31/92	1492/1292	2070	45	8) 150	150		9) 150	150	2370
1/1/93- 5/31/93	1592/1292	1717	125	125	125		150	150	1992
6/1/93- 5/31/94	1592/1292	1035		75	75	300	416	159	1826
6/1/94- 5/31/95	1592/1292	517		38	38	450	556		1561
6/1/95-	1592/1292	0		0		900	646		1546

- The above figures are based on the following assumptions; FPL interface capacity is currently 1492 MW and will increase to 1592 MW by or before 1/1/93 as contemplated by Paragraph 6.
- 2) Capacity sold to FPL under the 1982 FPL Southern UPS Agreement ("1982 UPS").
- 3) "Existing" is the Existing Transmission Service Price (\$0.79/kW-month).
- 4) Capacity assumed by FPL from JEA's 1982 JEA Southern UPS Agreement ("JEA UPS Obligations").
- 5) "New" is the New Transmission Service Price (\$0.54/kW-month).
- 6) Capacity sold to FPL under the 1988 FPL Southern UPS Agreement ("1988 FPL UPS").
- 7) "Firm" is the Firm Transmission Service Price (\$1.53/kW-month).
- 8) For 11/1/90 to Closing, FPL will be receiving Initial UPS or 1991 UPS in lieu of JEA 1982 UPS.

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION FLORIDA POWER & LIGHT COMPANY TESTIMONY OF ROBERTO R. DENIS

DOCKET NO._____ SEPTEMBER 28, 1990

1 Q. Please state your name and business address.

2 A. My name is Roberto R. Denis, and my business address is

9250 West Flagler Street, Miami, Florida, 33174.

4

3

5 Q. Who is your employer and what position do you hold?

6 A. I am employed by Florida Power & Light Company (FPL) as

7 Director of System Planning.

8

15

9 Q. Please describe your educational and professional 10 background and experience.

11 A. I received a Bachelor of Science degree in Electrical

12 Engineering from Georgia Institute of Technology in 1972.

In 1976, I completed an FPL sponsored course in the field

of nuclear power. I have since attended numerous courses

and seminars at Auburn University, General Electric

16 Company, Ohio State University, and industry

associations.

I am a registered Professional Engineer in the State of Florida, and a member of the Florida Engineering Society and the Institute of Electrical and Electronic Engineers.

I also represent FPL on the System Planning Committee of the Edison Electric Institute and on the System Planning Committee of the Florida Electric Power Coordinating Group.

Upon graduation in 1972, I was employed by FPL as a distribution engineer in FPL's Southeastern Division. In 1976, I joined the System Planning Department, where I was promoted to the position of Supervisor of Generation Planning in 1980. In 1982, FPL formed the Load Management and Customer Generation Department, at which time I was promoted to the position of Manager of that department. In 1985, I joined the Power Supply Department as the Manager of Contracts and Administration. In January of 1989, I was promoted to Director of System Planning.

In my present position, I am responsible for the evaluation of the Company's future need for power supply and transmission facilities and for the formulation of

2		
3	۵.	What is the purpose of your testimony?
4	A.	The purpose of my testimony is to discuss the results of
5		the "Request for Power Supply Proposals" (RFP) FPL issued
6		in July 1989.
7		
8	Q.	Have you prepared an exhibit in connection with your
9		testimony?
10	Α.	Yes. It consists of 3 documents.
11		Document No. 1 is a capacity RFP summary listing of
12		facilities by name, location, capacity
13		(MW), type and technology.
14		Document No. 2 is the capacity RFP evaluation criteria.
15		Document No. 3 is the relative ranking of the thirteen
16		highest scoring proposals.
17		
18	Q.	Why did FPL issue an RFP?
19	Α.	In FPL's 1988 capacity expansion planning study it was
20		determined that a significant amount of additional
21		resources were needed by FPL through 1997. These
22		resources were required to provide an adequate and
23		reliable level of service.
24		

plans to satisfy such needs.

25

Among the alternatives available to satisfy the needed

1	additional resources was the construction of generation
2	facilities by FPL. The decision to issue the RFP was an
3	effort to see if a better alternative was available to
4	FDT.'s own construction.

- 6 Q. What amount of capacity and in what timeframe did FPL solicit through the RFP ?
- 8 A. Proposals for supply of up to 800 MW of capacity were
 9 solicited. Facilities of any MW size were acceptable.
 10 As stated previously, it was FPL's objective to find
- 11 better alternatives to its own construction.
- 12 Specifically, alternatives for the construction it
- planned for 1996 were requested. However, proposals in
- 14 which capacity became available during the period between
- 15 1994 and 1997 were accepted to provide additional
- 16 flexibility in satisfying FPL's needs.

17

- 18 Q. What type of suppliers did FPL invite to respond?
- 19 A. The solicitation invited responses from all types of
- 20 electric power suppliers, including independent power
- 21 producers, PURPA Qualifying Facilities (QFs) and other
- 22 utilities. Respondents had to propose facilities which
- 23 were based on proven technologies and would be capable of
- 24 using coal or an alternate primary fuel other than oil.

- 1 Q. Did FPL intend to supplant its obligation to purchase
- 2 from QF's under the Commission's rules by permitting them
- 3 to participate in its RFP process?
- 4 A. No. In fact the RFP provided the opportunity to
- 5 supplement the amount of QF capacity FPL expected to
- 6 become available under the process established by the
- 7 Commission's rules.

- 9 FPL's capacity expansion planning study which determined
- 10 its need to construct additional facilities presupposed
- 11 that almost 1100 MW QF capacity would become available by
- 12 1997. At the time of the issuance of the RFP only about
- one-half of this capacity was under contract with the
- 14 remainder being held open to be satisfied by QFs. FPL
- 15 has not attempted to meet this QF portion not under
- 16 contract with other alternatives. Therefore, in addition
- 17 to the OF capacity FPL included in its planning study,
- 18 the 800 MW solicited in the RFP was available for QFs to
- 19 supply.

- 21 Q. Where could the facilities proposed through the RFP be
- 22 located?
- 23 A. The RFP was open to facilities located either in Florida
- 24 or out-of-state. However, respondents proposing
- 25 facilities located outside of FPL's service territory

- were responsible for securing the delivery of their
- 2 capacity to the FPL system.

- 4 Q. How many proposals did FPL receive?
- 5 A. Thirty four proposals totaling 10,793 MW from 24
- 6 different respondents were received.

7

- 8 Q. Please summarize the proposals.
- 9 A. A listing of the proposals indicating size in MW, type,
- 10 technology and location is provided in my Document No. 1.
- 11 Of the proposals listed, two were from utilities, 18 were
- 12 QF's and 14 independent power producers. All but three
- of the proposals listed were located in Florida.

- 15 Q. What were the major steps in the RFP evaluation process?
- 16 A. The major steps in the evaluation process were as
- 17 follows:
- Initial screening to eliminate proposals that
- 19 failed to meet the minimum requirements stated in
- 20 the RFP.
- Economic screening of the remaining proposals.
- 22 · Detailed evaluation of proposals to identify a
- 23 negotiation award group.
- . Negotiations with the selected respondent(s) to
- 25 reach contractual agreements.

- 1 Q. Please describe those steps in more detail.
- 2 A. Proposals were first evaluated to determine whether they
- met certain requirements and minimum conditions which
- 4 were specified in the RFP. These included items related
- 5 to the construction plan and schedule, siting, fuel, and
- 6 response completeness requirements.

- 8 Those proposals meeting the minimum conditions and
- 9 requirements were subjected to an economic screening
- 10 step. The purpose of this screening step was to
- 11 determine if the number of proposals which had to be
- 12 evaluated in detail could be reduced.

13

- 14 In the detailed evaluation step, proposals were evaluated
- using price and non-price factors. These factors were
- 16 used to select the best overall proposal and are listed
- in my Document No. 2. The detailed methodology used in
- 18 the evaluation process is proprietary to FPL and has not
- 19 been disclosed to the public. The factor relating to
- 20 the facility location is of particular importance to the
- 21 ultimate selection made by FPL.

- 23 Q. How did you treat facility location in the RFP process?
- 24 A. Location was evaluated as an element of price as well as
- 25 a non-price factor. Transmission penalties were included

in the price evaluation with the most severe penalties
applied to those facilities located outside the State of
Florida and no penalties to facilities located near the
load center in South Florida. We also evaluated location
with regard to the transmission losses the facilities
would incur, their impact on transfer capability, and the
overall reliability of FPL's system.

8

9 Q. Why was special treatment given to the facility location?

10 A. It was necessary to pay particular attention to the
11 location of facilities because of FPL's load center being
12 situated in the southeast portion of the Florida
13 peninsula. This fact makes the location of generation
14 sources more dependent on FPL's transmission system.

15

17

18

19

16 Q. How did the proposals perform in the evaluation process?

A. One proposal failed the initial screening step. Thirty three proposals were evaluated in detail. My Document No. 3 shows the relative scores of the top thirteen proposals.

20

22 Q. What is the current status of the RFP process?

23 A. Three of the four major steps of the evaluation process
24 have now been completed. The proposal submitted by the
25 Southern Company (Southern) ranked the highest. This

- proposal was for the sale of capacity from its Scherer
 Unit No. 4. Southern was notified accordingly. In
 addition, a group of facilities was retained in the event
 a final agreement is not reached with Southern.
 Additional information has been requested from these
 facilities in order to perform further evaluations. All
 other respondents have been notified of FPL's selection.

 Are you satisfied with the results of the RFP process
- 9 Q. Are you satisfied with the results of the RFP process
 10 A. Yes. Proposals were received and evaluated reflecting a
- variety of technologies, locations, fuel sources and
- 12 types of facilities. Although the RFP process is not yet
- completed, in my opinion it identified available capacity
- 14 alternatives.

- 16 Q. Does this conclude your testimony?
- 17 A. Yes, it does.

CAPACITY RFP SUMMARY

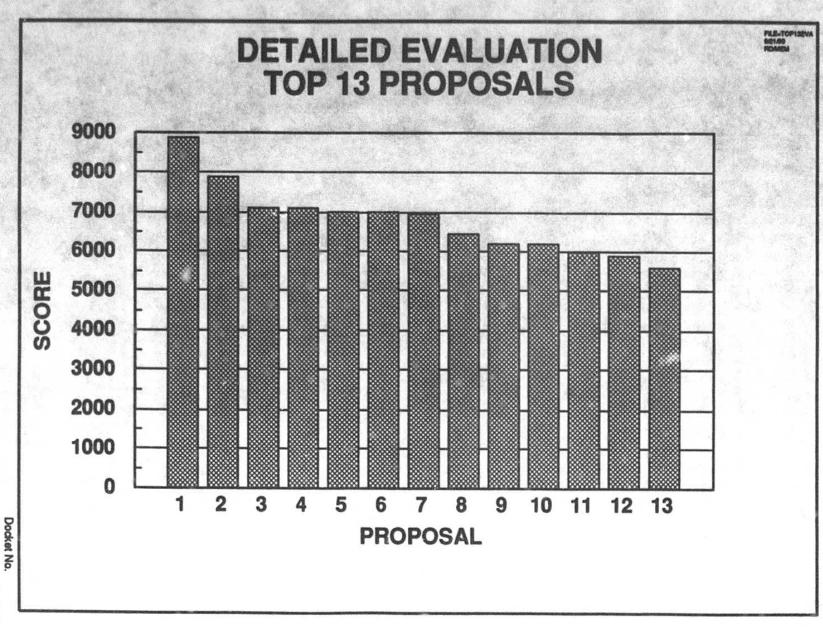
FACILITY NAME	SIZE (MW)	TYPE	TECHNOLOGY	LOCATION
HADSON FLORIDA 1 LP	216	QF	COMBINED CYCLE	BROWARD COUNTY
HADSON FLORIDA 2 LP	165	OF +	PULVERIZED COAL	BROWARD COUNTY
HADSON FLORIDA 3 LP	216	OF	COMBINED CYCLE	DADE COUNTY
HADSON FLORIDA 4 LP	26.8	OF	COMBINED CYCLE	DADE COUNTY
PAHOKEE POWER FACILITY	181.5	IPP	PULVERIZED COAL	PALM BEACH COUNTY
FT. MYERS POWER FACILITY	181.5	IPP	PULVERIZED COAL	LEE COUNTY
CATAWABA NUCLEAR STATION	100	UTL	NUCLEAR	SOUTH CAROLINA
SCHERER UNIT NO. 4	848	UTL	PULVERIZED COAL	GEORGIA
ENSERCH MIAMI P. L.	130	QF	FLUIDIZED BED	DADE COUNTY
ENSERCH JACKSONVILLE P.L.	184	QF	COMBINED CYCLE	DUVAL COUNTY
INDECK-FROSTPROOF ENERGY CENTER	105	OF	COMBINED CYCLE	POLK COUNTY
POMPANO BEACH ENERGY P. L.	80	QF	PULVERIZED COAL	BROWARD COUNTY
SEI & ERL ARCADIA LP	218	QF	FLUIDIZED BED	DESOTO COUNTY
SEI & ERL DELAND LP	218	QF	FLUIDIZED BED	VOLUSIA COUNTY
HENDRY POWER STATION	439	IPP	PULVERIZED COAL	HENDRY COUNTY
VILLAGE POWER PROJECT	268	IPP	COMBINED CYCLE	DADE COUNTY
LIBERTY POWER PROJECT	156	QF	FLUIDIZED BED	PALM BEACH COUNTY
CARLTON POWER FACILITY	376	IPP	PULVERIZED COAL	HARDEE-DESOTO C. LINE
WESTLAKE POWER FACILITY	376	IPP	PULVERIZED COAL	DUVAL COUNTY
CLEARWATER ENERGY COGEN	400	OF	PULVERIZED COAL	MARTIN COUNTY
BEELINE POWER STATION	175	IPP	PULVERIZED COAL	PALM BEACH COUANTY
CYPRESS ENERGY PROJECT	816	IPP	PULVERIZED COAL	OKEECHOBEE COUNTY
DADE COGEN	220	QF	FLUIDIZED BED	DADE COUNTY
HENDRY COGENERATION	124	QF	PULVERIZED COAL	HENDRY COUNTY
BRADLEY JUNCTION ELECTRIC GEN. STATION	766	IPP	PULVERIZED COAL	POLK COUNTY
VALENCIA POWER STATION	412	IPP	ADVANCED COMBINED CYCLE	HARDEE COUNTY
TAYLOR CREEK STATION	724	IPP	PULVERIZED COAL	OKEECHOBEE COUNTY
FORT OGDEN STATION	724	IPP	PULVERIZED COAL	DESOTO COUNTY
FALCON PENINSULAR POWER PLANT	425	QF	ADVANCED COMBINED CYCLE	DUVAL COUNTY
BELLEFONTE	800	IPP	COMBINED CYCLE	ALABAMA
PANDA-CELOTEX	207	QF	COMBINED CYCLE	DUVAL COUNTY
PANDA-GOLD KIST	207	QF	COMBINED CYCLE	SWANNEE COUNTY
EMPIRE III	181	IPP	PULVERIZED COAL	DADE COUNTY
EMPIRE IV	127	QF	PULVERIZED COAL	DADE COUNTY

OF STANDS FOR QUALIFYING FACILITY IPP STANDS FOR INDEPENDENT POWER PRODUCER UTL STANDS FOR UTILITY

CAPACITY RFP PROPOSAL EVALUATION CRITERIA

- 1. PRICE AND COST TO FPL
- 2. LOCATION
- 3. PLANNING AND SCHEDULE FLEXIBILITY
- 4. FUEL DIVERSITY AND PRICE RISKS
- 5. SECURITY OF FUEL SUPPLY
- 6. POWER QUALITY AND RELIABILITY
- 7. DISPATCHABILITY
- 8. REACTIVE CAPABILITY AND CONTROL
- 9. CONTRACT TERM
- 10. MAINTENANCE OUTAGE SCHEDULING
- 11. COMPLETION SECURITY
- 12. SECURITY FOR PAYMENT IN EXCESS OF VALUE
- 13. FINANCIAL VIABILITY OF FACILITY AND RESPONDENT
- 14. PLANT MAINTAINABILITY AND AVAILABILITY
- 15. RESPONDENT'S EXPERIENCE
- 16. LEVEL OF DEVELOPMENT
- 17. STATE AND COMMUNITY BENEFITS
- 18. CONTRACT TERMS AND CONDITIONS

Docket No. FPL Witness R. R. Denis Exhibit No. Document No.2 Page 1 of 1



FPL Witness: R. R. Denis Exhibit No. Document No. 3 Page 1 of 1

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION FLORIDA POWER & LIGHT COMPANY TESTIMONY OF SAMUEL S. WATERS

DOCKET NO. _____

SEPTEMBER 28, 1990

1	Q.	Please state your name and business address.
2	A.	My name is Samuel S. Waters and my business address is 9250 West
3		Flagler Street, Miami, Florida 33174.
4		
5	Q.	By whom are you employed and what position do you hold?
6	Α.	I am employed by Florida Power & Light Company (FPL) as the Manager
7		of Power Supply Planning.
8		
9	Q.	Please describe your duties and responsibilities in that position.
10	Α.	I manage the group that is responsible for the development of FPL's
11		generation expansion plans and other generation related activities, such
12		as system production cost projections. I also coordinate the annual

1		Energy Capacity Study, which is FPL's primary cross-functional program
2		to develop an integrated plan for meeting future capacity needs.
3		
4	Q.	Please describe your education and professional experience.
5	A.	I graduated from Duke University with a Bachelor of Science Degree in
6		Electrical Engineering in 1974. From 1974 until 1985, I was employed by
7		the Advanced Systems Technology Division of Westinghouse Electric
8		Corporation as a consultant in the areas of Transmission Planning and
9		Power System Analysis Software. While employed by Westinghouse, I
10	EMPSS III	earned a Masters Degree in Electrical Engineering from Carnegie-Mellon
11		University in 1976.
12		
13		I joined the System Planning Department of FPL in 1985 and have
14		worked in the Power Supply Planning area since that time.
15		
16		I am a registered Professional Engineer in the States of Pennsylvania
17		and Florida and a Senior Member of the Institute of Electrical and
18		Electronics Engineers, Inc. (IEEE).
19		
20	Q.	What is the purpose of your testimony?
21	A.	The purpose of my testimony is to demonstrate how FPL's purchase of
22		Georgia Power Company's (GPC) Plant Robert W. Scherer Unit No. 4
23		(Scherer Unit No. 4) represents the most cost effective means of meeting
24		FPL's future need for new generating resources. I will discuss the

1		Scherer Unit No. 4 purchase as it relates to FPL's most recently
2		developed expansion plan, as presented in the Petition to Determine
3		Need for Electrical Power Plant, Docket Nos. 890973-El and 890974-El
4		(Need Petition). In so doing, I will briefly review the planning process and
5		objectives employed at FPL, review FPL's base expansion plan as
6		presented in the Need Petition, present some significant changes which
7		have occurred since the Need Petition was filed and discuss how the
8		Scherer Unit No. 4 purchase provides other benefits to FPL customers.
9		
10	Q.	Are you sponsoring an exhibit in this case?
11	A.	Yes. It consists of ten documents:
12		
13		Document No. 1 is a summary of FPL's summer peak demand,
14		winter peak demand and net energy for load (NEL) forecast.
15		
16		Document No. 2 is FPL's fuel forecast for residual fuel oil, natural
17		gas and coal.
18		
19		Document No. 3 is a summary of the net to grid capacity forecast
20		to be available to FPL from Qualifying Facilities.
21		
22		Document No. 4 is a summary of FPL's cost of capital
23		assumptions.

1 .	 Document No. 5 is a summary of FPL's assumptions on cost and
2	performance of new generating units.
3	
4	Document No. 6 is a summary of the O&M rates assumed for the
5	Scherer unit.
6	
7	Document No. 7 is a graphic summary of FPL's base capacity plan
8	without the purchase of Scherer Unit No. 4.
9	
10	Document No. 8 is a graphic summary of FPL's expected loss-of-
11	load probability (LOLP) through 1997 demonstrating a need for
12	new capacity.
13	
14	Document No. 9 is a summary of FPL expansion plans with and
15	without the purchase of Scherer Unit No. 4.
16	
17	Document No. 10 is a summary of the relative economics of the
18	alternatives available to meet the 1996 need.

1	Rev	lew Of The Planning Process And Objectives
2	Q.	What is the objective of FPL's capacity planning process?
3	A.	The objective of the capacity planning process at FPL is to provide
4		adequate resources to reliably meet our customers' future demand for
5		electric power in a cost-effective manner. While there are many
6		alternatives to meet this future demand, the process attempts to identify
7	1	a plan which properly balances cost and risk.
8		
9	Q.	What alternatives are considered in the planning process?
10	Α.	Both generating and non-generating resources are considered, including:
11		
12		Demand Side Management
13		Qualifying Facilities
14	. 6	Purchased Power
15		New Generating Units
16		
17	Q.	How are these alternatives integrated into FPL's capacity plan?
18	A.	The first step of the planning process is to identify the amount of
19		resources needed to maintain power supply system reliability. An
20		expansion plan consisting entirely of FPL constructed generating units is
21		then identified. This expansion plan is identified solely for the purpose
22		of establishing an "avoided cost" basis against which all other alternatives
23		can be evaluated. Demand side programs are introduced into the plan

1		first, followed by qualifying facilities, then purchased power. Each of
2		these resources is added to the plan to the extent it is available and cost-
3		effective. Remaining needs are met through the addition of new
4		generating capacity.
5		
6	Q.	Does the development of FPL's capacity plan require that a number
7		of assumptions or forecasts be made?
8	A.	Yes. Estimates of conditions must be developed for twenty to thirty years
9		into the future. These estimates define a scenario upon which the plan
10		will be based.
11		
12	Q.	What are the most critical of the assumptions used to define a
13		planning scenario?
14	A.	The most critical assumptions used in the planning process are:
15		
16		Demand and Energy Forecast
17		Fuel Price and Availability Forecast
18		Qualifying Facility (QF) Forecast
19		Cost of Capital Estimate
20		Cost and Performance Estimates for New Generating Units

- 1 Q. What is the source of the critical assumptions used to develop the 2 plan?
 - A. Several FPL departments provide the information required to develop the power supply plan. The demand and energy forecast is provided by the Research, Economics and Forecasting Department. A summary of the peak demand and net energy for load forecast is provided in my Document No. 1. The fuel price and availability forecast is developed by the Fuel Resources Department. A copy of the forecast for residual fuel oil, natural gas and coal is provided in Document No. 2. The QF forecast is provided by the Bulk Power Markets Department. A summary of the QF megawatts (MW) assumed, by year, in the development of the plan is presented in my Document No. 3.

The cost of capital estimates assumed for FPL-constructed units and for the purchase of the Scherer Unit No. 4 is developed by FPL's Finance Department. Document No. 4 summarizes the capital structure and the cost of capital used in the economic analyses performed. The last of the critical assumptions I have listed, the cost and performance for new generating units, is developed by FPL's Project Management Department. I have summarized this data in Document No. 5. The O&M assumptions used for Scherer are shown in my Document No. 6.

1	Q.	How is the amount of capacity needed to maintain system reliability
2		determined?

A. FPL uses two reliability criteria to determine the quantity of resources required to maintain system reliability: summer peak reserve margin and loss-of-load probability (LOLP). The limits established for these criteria are a minimum summer peak reserve margin of 15% and a maximum LOLP of 0.1 days per year. These criteria and associated limits are commonly accepted in the utility industry.

- 10 Q. How are the economics of alternative means of meeting capacity
 11 needs compared?
 - A. Alternative means of meeting capacity needs are compared on a present value of revenue requirements (PVRR) basis, i.e., the total PVRR of one alternative is compared to the PVRR of another to identify the lesser cost option. Revenue requirements include the capital, non-fuel operating and maintenance and fuel costs of an option, as well as the fuel cost impacts associated with changes in system operating characteristics.

1	Q.	You mentioned that the planning process attempts to balance cost
2		and risk. What risks must be accounted for?
3	Α.	The risks I refer to fall generally into two categories:
4		
5		The risk of not providing adequate resources to meet customers'
6		future demand for electricity.
7		
8		The risk of making capacity decisions which do not provide the
9		most favorable economics to the customer in the long term.
10		
11		These risks are a result of uncertainty over future conditions, including
12		the amount of electricity which will be demanded, the price and
13		availability of fuel, the reliability of forecast in-service dates of non-utility
14		generation including QFs, general economic conditions, environmental
15		regulation and other factors.
16		
17	Q.	How is this uncertainty dealt with in the planning process?
18	A.	The uncertainty from the planning perspective is dealt with in two ways:
9		through diversity and flexibility. Diversity means that future demand is not
20		met through an over-reliance on any one source of energy or capacity.
21		For example, the use of several fuel sources provides for a greater
2		insulation against price or availability changes in any one fuel. Flexibility

refers to the ability to change plans as conditions change; for example,

the ability to accelerate or defer in-service dates of new capacity
 additions as demand projections change is advantageous.

These factors must be considered in addition to cost in the development of a capacity plan.

A.

Review Of FPL's Base Expansion Plan

- Q. What is FPL's current base generation expansion plan, without the Scherer Unit No. 4 purchase?
 - FPL needs approximately 5,400 MW of resources to meet projected demand through the year 1997. FPL's current base expansion plan consists of a mix of demand side programs, qualifying facilities, purchased power and new generating capacity. The new generating capacity includes the repowering of Lauderdale Unit Nos. 4 and 5, the construction of combined cycle units, Martin Unit Nos. 3 and 4, and the addition of approximately 800 MW of integrated coal gasification combined cycle (IGCC) units, Martin Unit Nos. 5 and 6. This expansion plan is summarized in graphic form in Document No. 7.

1 Q.	Of the 5,400 MW of resources planned through 1997, how much le
2 with the west	filled by currently contracted and approved resources?

FPL has received Public Service Commission (PSC) approval for demand side management (DSM) programs, which include conservation, interruptible rates and residential load control. The impact of these programs will total approximately 1,317 MW through 1997. FPL has also received a favorable determination of need from the PSC for the repowering of Lauderdale Unit Nos. 4 and 5, and the construction of Martin Unit Nos. 3 and 4, totalling approximately 1,342 MW of capacity.

A.

In addition to the above, in 1988, FPL contracted with the Southern Companies for approximately 911 MW of capacity in a Unit Power Sales (UPS) arrangement. FPL has also signed contracts with QFs and received PSC approval for 515 MW of capacity. In addition, FPL has signed negotiated contracts totalling 352 MW which have not yet received PSC approval.

The total of these contracted and approved resources is 4,085 MW, leaving approximately 1,358 MW of resource need remaining to be filled through 1997.

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A. Based on LOLP analysis in which only the contracted and approved resources were included, FPL needs approximately 200 MW of additional capacity by 1995. The results of this analysis, showing LOLP by year, are shown in Document No. 8.

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- 7 Q. How would FPL plan to meet this additional need, without the 8 purchase of Scherer Unit No. 4?
- 9 A. FPL anticipates that an additional 590 MW of QF capacity will be
 10 available by 1997. The additional need would be met through the
 11 construction of integrated coal gasification combined cycle (IGCC) units
 12 totalling 768 MW. The IGCC units are the most cost-effective of the new
 13 construction generating unit options available to FPL. These units could
 14 be phased into a 1995/1996 in-service date and address the 1995 need
 15 I previously discussed.

16

- 17 Q. How does this plan compare to the expansion plan presented to the
 18 Commission in Docket Nos. 890973-El and 890974-El, FPL's Petition
 19 to Determine Need?
- 20 A. The new construction requirements are identical to those identified in
 21 these dockets. Conservation projections are somewhat higher in the
 22 longer term and offset a higher demand forecast.

- Q. Have there been any significant changes since FPL's Need Petition
 was prepared?
- 3 A. Yes. There have been two significant changes since that time which 4 have an impact on the generation expansion plan. First, the FPL forecast 5 of summer peak demand shows an increase in the short term versus the 6 forecast used in the Need Petition. In 1991-92, this increase is approximately 200 MW. The longer term forecast remains basically 8 unchanged due to the effects of increased conservation. The second 9 major change is a shifting of QF resources used in the Need Petition. In 10 the Need Petition, FPL had forecast that 1,095 MW of QF power would 11 be supplied by 1997. This total amount by 1997 has not changed 12 substantially; the currently forecasted total is 1,105 MW. However, 13 included in that total were two large facilities, 225 MW and 300 MW, to 14 be in-service to meet the summer peaks in 1993 and 1995, respectively. 15 These facilities represent a substantial share of FPL's total QF 16 purchases, and have subsequently been delayed to in-service dates 17 which will meet the summer peaks of 1994 and 1996, respectively.

Q. Have these changes threatened system reliability?

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A. No. They do tend to reduce the projected reserves in FPL's capacity plan and are, therefore, cause for concern. They also have occurred in a time frame in which it is not feasible to economically construct additional new capacity, if it were required. Even with these changes,

1 FPL projects its next capacity addition would be in the 1995-96 time
2 frame, since reliability standards are not violated before that time.

The Impact Of Scherer Unit No. 4 On The Plan

- Q. How does the purchase of Scherer Unit No. 4 fit into FPL's current base expansion plan?
- A. The purchase of Scherer Unit No. 4 would allow the deferral of Martin
 Unit Nos. 5 and 6, the IGCC units, which were scheduled to begin
 service in 1996, assuming that the additional 590 MW of potential QF
 capacity is also obtained.

A.

- Q. Does the purchase of Scherer Unit No. 4 have any impact on the scheduled capacity to be brought in-service prior to 1996?
 - No. Although, as described in Mr. Cepero's testimony, the purchase of the unit begins in 1991, the Lauderdale repowering and construction of Martin Unit Nos. 3 and 4 have not been deferred. Deferral of this new capacity would be unwise at this time given the changes in the load forecast and the expected in-service dates of QF capacity which I discussed earlier. If these new units were to be delayed, and any further changes were to occur resulting in additional capacity need, there may not be sufficient lead time to reschedule these units back to their original in-service dates.

1 Q.	Please describe the final impact of the Scherer Unit No. 4 purchase
2	on FPL's current base generation expansion plan.

The purchase of 646 MW of Scherer Unit No. 4 defers Martin Unit Nos. 5 and 6 from 1996 to 1998. Subsequent units in the base generation expansion plan are also delayed by the purchase of Scherer Unit No. 4. The net effect of the purchase of 646 MW is to avoid an approximately equal amount of capacity in the base plan for the life of the unit. I have summarized the expansion plans through 1998 with and without Scherer Unit No. 4 in Document No. 9.

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- 11 Q. Is this purchase of Scherer Unit No. 4 more cost effective than

 12 construction of new capacity by FPL?
- 13 A. Yes. When compared to construction of the IGCC units, Martin Unit
 14 Nos. 5 and 6, the purchase of Scherer Unit No. 4 produces a cumulative
 15 net present value savings of \$584 million over thirty years.

16

- 17 Q. How do the economics of this purchase compare to the projects
 18 proposed to FPL in its capacity RFP?
- The evaluation of these projects is described in Mr. Denis' testimony.

 The most economic proposal submitted in response to the RFP was, in fact, the Georgia Power proposal offering Scherer Unit No. 4 in a UPS arrangement. The analysis I have performed shows that the purchase arrangement of Scherer Unit No. 4 produces approximately \$15 million

1		more savings in present value terms than the UPS proposal. This does
2		not reflect certain other benefits associated with the purchase.
3		
4	Q.	Are there additional benefits provided by the purchase of Scherer
5	1.2	Unit No. 4 when compared to the UPS arrangement?
6	Α.	Yes. The purchase of Scherer Unit No. 4 offers several other benefits
7		when compared to the UPS offer, including:
8		
9		Facilitation of the expansion of the Southern-Florida transmission
10		interface.
11		
12		Inclusion of associated emission allowances in the sale.
13		
14		Assuming the unit life will extend beyond thirty years, FPL will not
15		have to replace the capacity, as it would under the UPS
16		arrangement.
17		
18	Q.	How does the Scherer Unit No. 4 purchase compare to purchases
19		from QFs?
20	A.	The economics of the Scherer Unit No. 4 purchase compare favorably to
21		purchases from QFs under a Standard Offer contract. The purchase of
22		Scherer Unit No. 4 saves approximately \$436 million versus the 1996
23		Standard Offer at no risk factor and \$225 million versus the Standard

		Comment a 2000/ state factor aumulative present value over thirty years. In
		Offer at a 20% risk factor cumulative present value over thirty years. In
2		addition, the Scherer Unit No. 4 purchase offers less risk to ratepayers
}		than purchases from QFs, or from Independent Power Producers (IPPs).
	Q.	How does the purchase of Scherer Unit No. 4 present less risk to

Q. How does the purchase of Scherer Unit No. 4 present less risk to FPL ratepayers than purchases from QFs or IPPs from a planning perspective?

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8 When compared to any unit which is not currently in-service, Scherer Unit No. 4 has an advantage, in that it is already licensed, constructed and 9 operating. It offers proven technology and performance. Additional 10 comfort is provided by the fact that this is a sister unit to several others 11 at the same site which have a proven track record. New QF or IPP units 12 introduce uncertainty over operating performance and delivery schedules. 13 In addition, those QF facilities which operate under a Standard Offer 14 contract represent even greater risk since there is little certainty of 15 16 performance guaranteed in the contract.

Q. Would you please summarize the economics of the Scherer Unit
 No. 4 purchase?

A. Yes. I have shown, in summary form, the components of cost of the several expansion alternatives in Document No. 10.

- 1 Q. Does FPL have sufficient transmission capacity to take delivery of 2 the Scherer Unit No. 4 purchase?
- A. Yes, given the allocation of transfer capability associated with this
 agreement.

- 6 Q. Has additional transmission capability been factored into your economic analysis?
 - A. Yes. The availability to FPL of an additional 500 MW of transmission transfer capability over the Florida-Southern interface, as discussed in Mr. Cepero's testimony, has been modeled. The additional transfer capability also allows FPL to take advantage of additional short term economy purchases when available. Overall, the purchase of Scherer Unit No. 4 and the addition of new interface capability provide increased benefits versus the purchase alone. Assuming approximately \$180 million as a rough estimate for the cost of adding 500 MW of new transmission interface capacity for FPL, the purchase of Scherer Unit No. 4, along with the increased ability to make economy purchases, provides the approximately \$584 million of cumulative net present value revenue requirement savings when compared to the base case expansion plan.

1 Q. Since Scherer Unit No. 4 is coal-fired, will pending acid rain
2 legislation have a negative impact on the economics of the
3 purchase?

No, pending acid rain legislation is not expected to have a negative impact on the economics under currently proposed legislation. As described in Mr. Cepero's testimony, FPL will be entitled to, as part of the purchase, any emission and other such environmental allowances associated with its undivided ownership interest in Scherer Unit No. 4 as a result of the contemplated amendments to the Clean Air Act or any other legislative or regulatory action. These allowances will be a permanent increment to FPL's total.

Q.

A.

You mentioned earlier that you deal with uncertainty in the plan with diversity and flexibility. How does the purchase of Scherer Unit No. 4 contribute to these goals?

Scherer Unit No. 4 increases the amount of energy supplied by coal in the FPL fuel mix. Currently, FPL produces approximately 2% of its energy from coal-fired generation. With the purchase of Scherer Unit No. 4, that will increase to approximately 8% by 1997. This increase in coal-fired generation improves the diversity of the fuel mix. Flexibility, which is contained in the FPL base plan without Scherer, is maintained with the Scherer purchase, which provides early capacity capable of

1		addressing changes in the very near term, some of which we have
2		already seen.
3	is u f	
4	Q.	Would you please summarize the advantages of the purchase of
5		Scherer Unit No. 4, from a planning perspective?
6	A.	First and foremost, the purchase of 646 MW of Scherer Unit No. 4
7		provides a savings of \$584 million versus construction of a new unit by
8		FPL. It also provides competitive economics versus the best project
9		offered in FPL's capacity RFP and versus potential qualifying facility
10		projects. Thus, it is the most cost effective means of meeting future
11		demand available to FPL at this time.
12		
13		In addition to favorable economics, the purchase offers a number of other
14		advantages. First, the unit is a known quantity with demonstrated
15		performance and identified costs. Second, it is a coal-fired unit with a
16		high availability which helps diversify FPL's fuel mix. The potential
17		downside of acid rain related costs has been addressed, as allowances
18		are included as part of the purchase.
19	S) 100, 3	
20		Third, the purchase offers capacity in the short term, which will reduce
21		concern over volatile assumptions in the load forecast and QF supply.
22	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The unit is dispatchable, and maintenance scheduling will be defined by

In addition, when packaged with the additional transmission

1	T 4 3	capability, FPL will be able to take advantage of future economy energy
2		availability. All of these advantages serve to benefit FPL customers.
3		
4		Overall, the purchase of Scherer Unit No. 4 represents the best option
5		available to meet FPL's 1996 capacity need.
6		
7	Q.	Does this conclude your testimony?
8	A.	Yes, it does.

FPL 1990 Load Forecast

SUMMER PEAK						
Year	MW	Year	MW			
1990	13,420	2000	16,700			
1991	13,815	2001	17,061			
1992	14,180	2002	17,406			
1993	14,387	2003	17,761			
1994	14,694	2004	18,160			
1995	15,118	2005	18,448			
1996	15,390	2006	18,946			
1997	15,694	2007	19,352			
1998	16,019	2008	19,773			
1999	16,262					

1	VINTE	R PEAK	
Year	MW	Year	MW
1990-91	14,132	2000-01	18,941
1991-92	14,642	2001-02	19,437
1992-93	15,144	2002-03	19,962
1993-94	15,632	2003-04	20,485
1994-95	16,058	2004-05	21,022
1995-96	16,534	2005-06	21,566
1996-97	17,015	2006-07	22,118
1997-98	17,496	2007-08	22,677
1998-99	17,976	2008-09	23,273
1999-00	18,456		

Year	GWH	Year	GWH
1990	71,747	2000	91,154
1991	74,308	2001	93,494
1992	76,840	2002	95,759
1993	78,746	2003	98,130
1994	80,351	2004	100,756
1995	82,048	2005	103,398
1996	83,434	2006	105,995
1997	85,070	2007	108,859
1998	86,895	2008	111,795
1999	89,097		

Florida Power & Light Company
Docket No. _____
FPL Witness: S.S. Waters
Exhibit No. ____ (Document 1)
Page 1 of 1

1989 To 2018 Long Term Fossil Fuel Price Forecast Constant 1989 Dollar And Nominal Dollar Prices Approved By The Forecast Review Board On May 4, 1989 Delivered Constant 1989 Dollar & Nominal Dollar Coal Prices In Dollars Per Ton & Per MMBTU

Most Likely Scenario

		viost Likely Scenario				
	St. Johns River Power Park (\$/MMBTU)	High Sulfur Coal To Martin (\$/MMBTU)	Scherer (\$/MMBTU)			
Year	Nominal	Nominal .	Nominal			
1989	1.72	1.69				
1990	1.78	1.73	1.81			
1991	1.84	1.77	1.88			
1992	1.82	1.83	1.95			
1993	1.89	1.92	2.04			
1994	1.95	2.02	2.12			
1995	2.03	2.16	2.23			
1996	2.13	2.30	2.34			
1997	2.12	2.46	2.43			
1998	2.23	2.63	2.51			
1999	2.34	2.82	2.63			
2000	2.45	3.02	2.77			
2001	2.59	3.23	2.93			
2002	2.60	3.45	3.08			
2003	2.72	3.70	3.24			
2004	2.88	3.94	3.39			
2005	3.03	4.21	3.57			
2006	3.18	4.53	3.75			
2007	3.23	4.84	3.93			
2008	3.41	5.18	4.13			
2009	3.60	5.53	4.35			
2010	3.80	5.97	4.62			
2011	4.01	6.37	4.85			
2012	4.13	6.84	5.09			
2013	4.37	7.33	5.35			
2014	4.63	7.86	5.61			
2015	4.90	8.46	5.90			
2016	4.96	9.06	6.19			
2017	5.43	9.74	6.50			
2018	5.75	10.45	6.83			

Florida Power & Light Company Docket No. _____ FPL Witness: S.S. Waters Exhibit No. ____ (Document 2) Page 1 of 4

1989 To 2018 Long Term Fossil Fuel Price Forecast Constant 1989 Dollar And Nominal Dollar Prices Approved By The Forecast Review Board On May 4, 1989 Delivered Constant 1989 Dollar & Nominal Dollar Natural Gas Prices In Dollars Per MMBTU

Most Likely Scenario

entral in the second	Interruptible Natural Gas \$/MMBTU		Natu	irm ral Gas MBTU	Average Natural Gas \$/MMBTU		
Year	1989\$	Nominal	1989\$	Nominal	1989\$	Nominal	
1989	2.49	2.49	2.21	2.21	2.48	2.48	
1990	2.40	2.51	2.54	2.64	2.51	2.62	
1991	2.46	2.69	2.61	2.83	2.60	2.81	
1992	2.72	3.10	2.81	3.17	2.80	3.17	
1993	2.99	3.56	3.08	3.63	3.08	3.63	
1994	3.29	4.12	3.40	4.19	3.39	4.18	
1995	3.57	4.70	3.63	4.70	3.63	4.70	
1996	3.82	5.29	3.89	5.29	3.89	5.29	
1997	4.04	5.89	4.11	5.89	4.11	5.89	
1998	4.22	6.50	4.30	6.49	4.30	6.49	
1999	4.37	7.10	4.45	7.09	4.45	7.09	
2000	4.50	7.73	4.55	7.65	4.56	7.66	
2001	4.61	8.36	4.56	8.06	4.57	8.09	
2002	4.71	9.01	4.56	8.50	4.59	8.55	
2003	5.18	10.18			5.18	10.18	
2004	5.28	10.92		O 1	5.28	10.92	
2005	5.37	11.69			5.37	11.69	
2006	5.46	12.51		1 1	5.46	12.51	
2007	5.55	13.37			5.55	13.37	
2008	5.65	14.29		1	5.65	14.29	
2009	5.73	15.26			5.73	15.26	
2010	5.83	16.32			5.83	16.32	
2011	5.92	17.44			5.92	17.44	
2012	6.02	18.65		iv.	6.02	18.65	
2013	6.13	19.97		3-1	6.13	19.97	
2014	6.24	21.39			6.24	21.39	
2015	6.36	22.93			6.36	22.93	
2016	6.49	24.61			6.49	24.61	
2017	6.62	26.42			6.62	26.42	
2018	6.76	28.36			6.76	28.36	

Florida Power & Light Company Docket No. _____ FPL Witness: S.S. Waters Exhibit No. _____ (Document 2) Page 2 of 4

1989 To 2018 Long Term Fossil Fuel Price Forecast Constant 1989 Dollar And Nominal Dollar Prices Approved By The Forecast Review Board On May 4, 1989 Natural Gas Availability In Millions Of Cubic Feet Per Day

Most Likely Scenario

Year	Interruptible	Firm	Total
1989	394	19	413
1990	75	327	402
1991	38	327	365
1992	34	327	361
1993	29	327	356
1994	29	327	356
1995	29	327	356
1996	29	327	356
1997	31	327	358
1998	34	327	361
1999	36	327	363
2000	40	327	367
2001	33	327	360
2002	33	327	360
2003	354		354
2004	354		354
2005	358		358
2006	351		351
2007	360		360
2008	360		360
2009	360		360
2010	360		360
2011	360		360
2012	360		360
2013	360		360
2014	360		360
2015	360		360
2016	360		360
2017	360		360
2018	360		360

Florida Power & Light Company Docket No. _____ FPL Witness: S.S. Waters Exhibit No. _____ (Document 2) Page 3 of 4

1989 TO 2018 LONG-TERM FOSSIL FUEL PRICE FORECAST CONSTANT 1989 DOLLAR AND MONIMAL DOLLAR PRICES APPROVED BY THE FORECAST REVIEW BOARD ON MAY 4, 1989 DELIVERED CONSTANT 1989 DOLLAR & MONIMAL DOLLAR FUEL OIL PRICES IN DOLLARS PER BARREL 6 PER MEMBEU

MOST LIKELY SCHMARIO

		LUTILLATE				1.78 SULFU					FURL OIL	
YEAR	19853	NONTHAL	19898	HONTHAL	19898	NOMINAL	1989\$	HOMINAL	19895 N		19895	MONTHAL
1989	22.50	22.50	3.86	3.86	18.45	18.45	2.90	2.90	17.95	17.95	2.82	2.82
1990	22.08	23.02	3.79	3.95	17.85	18.60	2.80	2.92	17.37	18.10	2.73	2.85
1991	23.33	25.37	4.00	4.35	18.27	19.84	2.87	3.11	17.78	19.31	2.80	3.04
1992	26.14	29.69	4.48	5.09	20.01	22.70	3.14	3.56	19.47	22.08	3.06	3.47
1993	29.17	34.56	5.00	5.93	21.84	25.83	3.43	4.05	21.25	25.12	3.34	3.95
1994	32.25	40.05	5.53	6.87	23.93	29.65	3.76	4.65	23.28	28.83	3.66	4.53
1995	35.05	45.72	6.01	7.84	25.85	33.63	4.06	5.28	25.14	32.69	3.95	5.14
1996	37.57	51.63	6.44	8.86	27.55	37.76	4.32	5.93	26.79	36.71	4.21	5.77
1997	39.80	57.68	6.83	9.89	29.02	41.95	4.56	6.59	28.22	40.78	4.44	6.41
1998	41.73	63.82	7.16	10.95	30.27	46.18	4.75	7.25	29.43	44.89	4.63	7.06
1999	43.36	70.05	7.44	12.01	31.29	50.43	4.91	7.92	30.42	49.01	4.78	7.71
2000	44.81	76.52	7.69	13.13	32.17	54.81	5.05	8.61	31.28	53.28	4.92	8.38
2001	46.14	83.15	7.91	14.26	32.97	59.27	5.18	9.30	32.05	57.60	5.04	9.06
2002	47.27	89.88	8.11	15.42	33.61	63.76	5.28	10.01	32.67	61.96	5.14	9.74
2003	48.23	96.58	8.27	16.57	34.14	68.19	5.36	10.71	33.18	66.27	5.22	10.42
2004	49.22	103.80	8.44	17.80	34.67	72.94	5.44	11.45	33.70	70.89	5.30	11.15
2005	50.07	111.19	8.59	19.07	35.11	77.78	5.51	12.21	34.13	75.59	5.37	11.88
2006	50.85	118.81	8.72	20.38	35.49	82.73	5.57	12.99	34.50	80.40	5.42	12.64
2007	51.56		8.84	21.74	35.83	87.85	5.62	13.79	34.82	85.38	5.48	13.42
2008		135.02	8.96	23.16	36.12		5.67	14.63	35.11	90.56	5.52	14.24
2009	52.78	143.61	9.05	24.63	36.36	98.68	5.71	15.49	35.34	95.90	5.56	15.08
2010	53.37		9.15	26.20	36.61	104.53	5.75	16.41	35.58	101.58	5.59	15.97
2011	53.88		9.24	27.83		110.54	5.78	17.35	35.77	107.42	5.62	16.89
2012			9.33	29.56		116.90	5.81	18.35	35.95	113.60	5.65	17.86
2013	54.92	183.03	9.42	31.39	37.19		5.84	19.41	36.15	120.16	5.68	18.89
2014	55.43	194.36	9.51	33.34	37.38		5.87	20.53	36.33	127.07	5.71	19.98
2015	55.94	206.37	9.60	35.40	37.57		5.90	21.71	36.52	134.37	5.74	21.13
2016	56.48	219.18	9.69	37.60	37.78		5.93	22.96	36.72	142.12	5.77	23.35
2017	57.00	232.71	9.78	39.92	37.97		5.96	24.28	36.91	150.29	5.80	23.63
2018	57.47	246.68	9.86	42.31	33.13	163.22	5.99	25.62	37.07	158.60	5.83	24.94

Page 4 of 4

Florida Power & Light Company
Docket No.

Exhibit No.

(Document 2)

Cogeneration Small Power Producer Forecast (Cumulative By Year)

Year	Under Contract	Not Under Contract	Total
1990	0 *	0	0
1991	0	0	0
1992	303.1	60.0	363.0
1993	303.1	130.0	433.1
1994	528.1	159.5	687.6
1995	538.1	233.0	780.1
1996	838.1	254.5	1,092.
1997	838.1	267.0	1,105.1

Florida Power & Light Company Docket No. _____ (Document 3)
Page 1 of 1

Summary Of Financial And Economic Assumptions Used For FPL Constructed Units (For Long Range Planning Purposes)

Proj Capitaliza	ected tion Ratios	Proj Cost O	ected f Capital
Debt	44%	Debt	10.0%
Preferred	09%	Preferred	10.0%
Egulty	47%	Equity	14.5%

Marie Salara Salara	Rates	Book Life		
State	5.50%	Combustion Turbines	30 Years ^{2/}	
Federal	32.13% ^{1/}	Combined Cycle	30 Years	
Effective	37.63%	Coal Gasifier	30 Years	

Tax Depreciation Life: 21 Years

2 Designed with the capability of future conversion to combined cycle operation.

Annual Escalation Assumptions (in Percent)

Year	General ^{1/} Inflation	Plant ² / Construction Cost	O&M Cost ²	
1989	4.5	5.1	5.0	
1990	4.5	5.0	4.9	
1991	4.5	5.0	4.9	
1992	4.6	5.1	5.0	
1993 4.4		5.0	4.9	
1994	4.9	5.1	5.0	
1995	5.1	5.6	5.4	
1996	5.3	5.6	5.4	
1997	5.4	5.6	5.4	
1998	5.5	5.6	5.4	
1999-2015	5.4	5.6	5.4	

GNP implicit Price Deflator (IPD)
Producer Price Index (PPI) for Capital Goods
Consumer Price Index (CPI)

Florida Power & Light Company Docket No. _____ FPL Witness: S.S. Waters Exhibit No. _____ (Document 4) Page 1 of 1

State income taxes are deductible for federal tax purposes and thus, effectively reduce the federal tax rate from 34% to 32.13%.

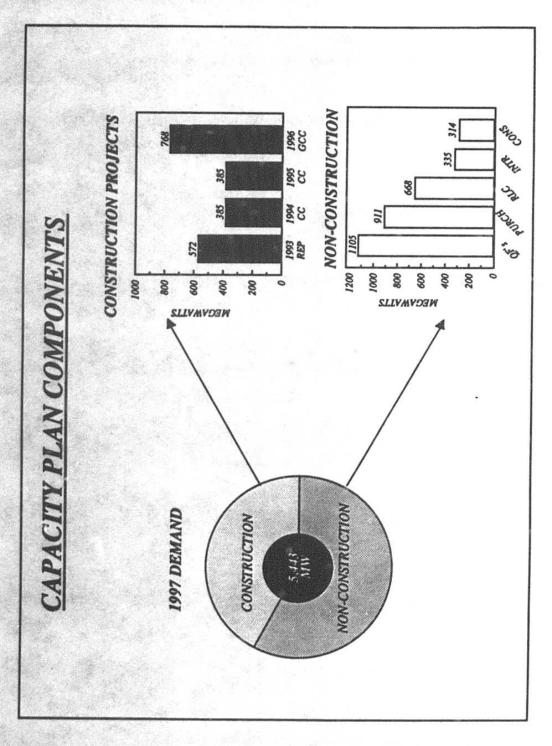
Notes	IGCC (Advanced)	IGCC (Advanced)
Unit	Initial	Extension
Site	Martin	Martin
Size, MW (Net Summer)	768	768
Fuel Primary Back-Up	Coal No. 2 Oil	Coal No. 2 Oil
Heat Rate (BTU/KWH) • 100% • 75% • 50%	8,781 8,957 9,220	8,781 8,957 9,220
Reliability F.O.R. (%) E.F.O.R. (%) Maintenance (week/yr) Equiv. Avail. (%)	2.6 6.3 3.5 87.0	2.6 6.3 3.5 87.0
O&M ^{1/} • Fixed (\$/KW-year) • Variable (\$/MW)	40.75 0.92	30.60 0.69
Capitai ¹ / • \$/KW	1,376	1,078
Schedule Lic./Eng. (months) Construction	48 33	48 33
Cash Flow 1/ Year 1 Year 2 Year 3 Year 4 Year 5 Year 6 Year 7 Year 8 Year 9 Year 10	6,342 26,956 120,509 286,473 369,985 215,119 27,182 4,530	3,083 13,575 61,410 137,690 218,188 262,772 112,590 18,765
Total	1,057,096	828,073

Florida Power & Light Company
Docket No. _____
FPL Witness: S.S. Waters
Exhibit No. _____ (Document 5)
Page 1 of 1

Scherer Purchase O&M Cost Assumptions

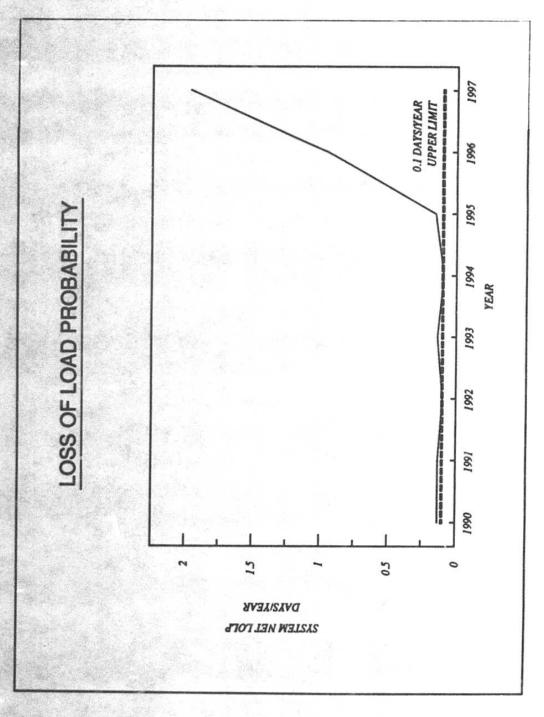
Year	Fixed O&M Cost (\$/MW-Month)	Variable O&M Cost (\$/MWH)	Year	Fixed O&M Cost (\$/MW-Month)	Variable O&M Cost (\$/MWH)	
1991	833	0.25	2008	1,517	0.46	
1992	833	0.25	2009	1,584	0.48	
1993	833	0.25	2010	1,653	0.50	
1994	833	0.25	2011	1,726	0.52	
1995	869	0.26	2012	1,802	0.54	
1996	908	0.27	2013	1,810	0.57	
1997	948	0.29	2014	1,817	0.59	
1998	997	0.30	2015	1,832	0.62	
1999	1,038	0.31	2016	1,851	0.65	
2000	1,082	0.32	2017	1,867	0.68	
2001	1,128	0.34	2018	1,867	0.71	
2002	1,176	0.35	2019	1,897	0.74	
2003	1,226	0.37	2020	1,917	0.77	
2004	1,280	0.39	2021	1,941	0.80	
2005	1,336	0.40	2022	1,967	0.84	
2006	1,392	0.42	2023	1,995	0.87	
2007	1,453	0.44				

Florida Power & Light Company Docket No. _____ FPL Witness: S.S. Waters Exhibit No. _____ (Document 6) Page 1 of 1



Florida Power & Light Company
Docket No.

FPL Witness: S.S. Waters
Exhibit No. ____ (Document 7)
Page 1 of 1



Florida Power & Light Company Docket No. _____ FPL Witness: S.S. Waters Exhibit No. _____ (Document 8) Page 1 of 1

Comparison Of FPL Expansion Plans With And Without Scherer Unit No. 4 Expansion Plan Expansion Plan2/ Without Scherer With Scherer Year Addition Addition 1991 1992 1993 Repowering of Lauderdale Nos. 4, 5 Repowering of Lauderdale Nos. 4, 5 1994 Martin Combined Cycle, Unit No. 3 Martin Combined Cycle, Unit No. 3 1995 Martin Combined Cycle, Unit No. 4 Martin Combined Cycle, Unit No. 4 Martin Integrated Coal Gasification, 1996 Scherer Unit No. 4 Unit Nos. 5, 6 1997 Unsited Initial Coal Gasification Unit Martin Integrated Coal Gasification, 1998

Unit Nos. 5, 6

Nos. 1, 2

Florida Power & Light Company Docket No. _____ FPL Witness: S.S. Waters Exhibit No. _____ (Document 9) Page 1 of 1

Source: Petition to Determine Need for Electrical Power Plant 1993-1996 (Revised November, 1989). Docket Nos. 890973-El and 890974-El.

Assumes expansion of transmission interface capabilities by 500 MW.

Comparison Of Generation Option Economics

			Fixed Cost ^{1/}		O&M Cost ^{2/}		Unit Fuel Cost		System Fuel Cost	Total Cost
Option	MW	Contract Or In- Service Year	Total (000, Nominal S)	CPVRR (000, 19915)	Total ess, Nominal S)	CPVRR (000, 19915)	Total (000, Nominal \$)	CPVRR (000, 19915)	CPVRR (000, 19911)	CPVRR (000, 19915)
Base Case - IGCC	768	1996	6,426,267	1,668,401	2,258,636	375,804	5,443,437	905,555	40,439,193	43,388,953
Scherer Purchase	646	1991	3,098,838	955,557	337,182	71,291	5,069,289	1,071,527	Charles and a second	42,805,391
Scherer UPS	6463/	1994	3,399,419	845,917	327,434	66,413	5,605,507	1,088,979	40,819,530	42,820,839
Standard Offer ^{4/} 20% Risk Factor	646	1996	3,537,888	583,220	1,571,796	261,480	2,943,571	476,821	41,709,136	43,030,657
Standard Offer ^{4/} No Risk Factor	646	1996	4,422,360	729,048	1,964,744	326,873	2,943,571	476,821	41,709,136	43,241,878

Fixed costs include generation and transmission revenue requirements.

O&M Costs include fixed and variable O&M.

The offer in the RFP was 848 MW. Costs have been adjusted to reflect 646 MW of capacity for comparison to the purchase. Reflects FPL Standard Offer Contract dated 6-25-20 based on 500 MW coal unit.

ON BEHALF OF FLORIDA POWER & LIGHT COMPANY

TESTIMONY OF HUGH A. GOWER

DOCKET	NO.	

SEPTEMBER 28, 1990

	Brille, Mar.	
1	Q.	Please state your name, occupation, and business
2		address.
3	A.	My name is Hugh A. Gower, and I am a partner in
4		Arthur Andersen & Co., a firm of independent
5		public accountants, at 133 Peachtree Street,
6		N.E., Atlanta, Georgia 30303.
7		
8	Q.	What are your responsibilities with Arthur
9		Andersen & Co.?
.0	A.	Currently, I am area director of the utilities
1		and telecommunications industries practice of
2		Arthur Andersen & Co. for the southeastern
3		region of the United States. As such, I have
4		responsibility for directing the services
5		provided for our clients, training of personnel,
6		and various administrative matters. I also
7		have, or have had, direct responsibility for the
8		services we provide to several electric, gas,

telephone, air carrier, and motor carrier
clients located in the Southeast.

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- 4 Q. Please outline your educational and professional
 5 qualifications and experience related to
 6 regulated companies and rate-making matters.
- I am a graduate of the University of Florida 7 with a bachelor of science degree in accounting 8 and economics. I am a certified public 9 accountant in the states of Florida, Georgia, 10 11 Alabama, and several others. I am a member of the American Institute of Certified Public 12 Accountants and other professional 13 organizations. I have been continuously engaged 14 in the practice of public accounting since 15 graduation from college. 16

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While I have had experience in a number of industries, substantially all of my work for more than 30 years has been devoted to our public utilities and telecommunications practice. In addition to electric utility companis, our practice includes gas distribution, gas transmission, telephone, motor carrier, and airline companies. I have

performed independent audits of utilities, as a result of which Arthur Andersen & Co. has issued reports on the financial statements of such companies, and supervised work in connection with the issuance of billions of dollars of securities by public utilities. I have also participated in and have supervised work in connection with audits of various statements, schedules, and other data required in connection with annual reports or rate applications before the Federal Energy Regulatory Commission (FERC) and various state public service commissions.

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I have directed revenue requirements studies involving the analysis of rate base, operating revenues, and operating expenses. I have provided expert testimony and assisted other members of Arthur Andersen & Co. and clients in the preparation of rate case testimony and exhibits in cases before federal and state regulatory commissions, including the Florida Public Service Commission (FPSC or the Commission). In addition, I have participated in the preparation of Arthur Andersen & Co.'s

position statements on utility accounting and rate matters being considered by legislative bodies and regulatory agencies. I chaired the Auditing and Regulatory Subcommittee of the Telecommunications Industry Advisory Group which advised the Federal Communications Commission in connection with its adoption of its new Uniform System of Accounts (Part 32). Specifically, the dealt with issues regarding subcommittee compliance with generally accepted accounting and proper reporting for both principles and general-purpose financial regulatory statements when regulatory rate-setting practices are based upon methods other than generally accepted accounting principles or when multiple commissions having jurisdiction over the same company follow different accounting and rate-making methods.

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I have participated in and directed the development of financial forecasting models, including one of the earliest corporate financial forecasting models developed in the electric utility industry. I have directed the preparation of financial forecasts and have also

conducted reviews of financial forecasts for companies employing both manual and mechanized forecasting systems. In addition, I have participated in the development of accounting and management information systems as well as a variety of operating systems and have directed other special studies designed to enhance control over utility resources, including fuel, construction, materials, and labor.

In recent years, a substantial part of my work has been devoted to consulting with public utilities and others regarding the economic effects of contemplated transactions and regarding various rate-making concepts and practices. I have also directed management audits, the purpose of which was to assess whether management systems and procedures promote economy and efficiency of operations.

- 21 Q. What is the purpose of your testimony?
- 22 A. The purpose of my testimony is to show:
- 23

 1. How Florida Power & Light Company's (FPL or the Company) accounting for the purchase of an undivided interest in Georgia Power

1	Company's (Georgia Power) Plant Robert W.
2	Scherer Unit No. 4 (Scherer Unit No. 4)
3	complies with the requirements of the FERO
4	Uniform System of Accounts, particularly
5	with respect to the related plant
6	acquisition adjustment.

2. Why FPL's proposal to include the Scherer Unit No. 4 plant acquisition adjustment (together with the original cost less accumulated depreciation) in rate base and to amortize the acquisition adjustment as an operating expense comports with sound rate-making practices, is reasonable, and should be approved by the Commission.

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- 16 Q. Have you prepared an exhibit in connection with your testimony?
- 18 A. Yes, it consists of one document. Document No.
- 19 1 shows the calculation of the plant acquisition
 20 adjustment that is expected to result from FPL's
- 21 purchase of an undivided interest in Scherer
- 22 Unit No. 4.

23

24 Q. What are the essentials of the proposed 25 transaction between FPL and Georgia Power?

1	A.	As detailed in the testimony of FPL witnesses,
2		FPL proposes to purchase a 646 MW share of the
3		846 MW Scherer Unit No. 4 in four increments
4		from January 1, 1991 to June 1, 1995. Over the
5		purchase period, FPL will pay Georgia Power
6		approximately \$615,500,000 in cash, financing
7		the transaction from usual sources of capital.
8		This unit will be operated on FPL's behalf by
9		Georgia Power.
10		
11	Q.	Please summarize the economic and other benefits
12		of the Scherer Unit No. 4 purchase.
13	Α.	The economic and other benefits which make the
14		Scherer Unit No. 4 purchase superior to other
15		available alternatives are summarized below:
16	1,000	
17		• Economic savings in comparison to other
18		alternatives including construction,
19		purchased power and cogeneration. (S. S.
20		Waters, pp. 14-16).
21		
22	gjeti e ti	• Expansion of Southern Company/Florida
23		transmission interface (G. R. Cepero, p.

1	• Improved diversification of fuel mix (S. S.
2	Waters, p. 18).
3	
4	• Known quantity with demonstrated
5	performance and identified cost. (S. S.
6	Waters, p. 20).
7	
8	e Receipt of valuable Clean Air Act emission
9	credits (G. R. Cepero, p. 6).
LO	
L 1	• Meets short-term capacity needs (S. S.
L2	Waters, p. 19).
L3	
14	Potentially greater life span of fossil-
15	fired unit (G. R. Cepero, p. 6).
16	
17	
L8 Q.	What is the relationship between Arthur
19	Andersen & Co., Georgia Power, and FPL insofar
20	as it relates to this proposed transaction?
21 A.	Arthur Andersen & Co. serves as independent
22	public accountants providing financial auditing,
23	tax, and consulting services to Georgia Power as
24	well as !ts parent company, The Southern
25	Company, and The Southern Company's other

subsidiary companies. I was personally responsible for directing Arthur Andersen & Co.'s audits of The Southern Company for the years 1983 through 1989 and, in addition, at various times directed the audits of each of its operating subsidiaries. It has been several years, however, since I directed our audits of Georgia Power. Neither I nor any representative of Arthur Andersen & Co. participated in the negotiations or assisted in the formation of the proposed Scherer Unit No. 4 transaction nor do we have any financial interest in the outcome. Our involvement was limited to customary advice regarding the financial accounting and income tax consequences of the transaction based upon the terms being considered by the companies.

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18 Q. With what accounting requirements must FPL

19 comply with respect to this purchase

20 transaction?

A. FPL must account for this purchase in accordance with generally accepted accounting principles and the FERC Uniform System of Accounts.

Accordingly, the total cost of the generating unit will be capitalized on FPL's books and

depreciated over the estimated useful life of
the unit.

3

- 4 Q. Do the requirements of the Uniform System of 5 Accounts differ from generally accepted
- 6 accounting principles?

separate accounts.

No, the Uniform System of Accounts and generally A. accepted accounting principles both require that 8 the total cost of the purchased generating unit 9 be capitalized. Additionally, the Uniform 10 System of Accounts will require that the total 11 segregated purchase price be 12 (1) original cost, less accumulated depreciation 13 as reflected on Georgia Power's books at the 14 date of sale, and (2) plant acquisition 15 adjustment and that these amounts be recorded in 16

18

- 19 Q. In simple terms, what is "plant acquisition adjustment"?
- 21 A. In simple terms, "plant acquisition adjustment"
 22 is the difference between the total cost paid by
 23 a utility for acquired property and the original
 24 cost (less accumulated depreciation) to the
 25 utility which had first devoted the subject

property to public service.

2

- Q. What part of the Uniform System of Accounts
 requires that the total purchase cost be
 segregated between original cost and plant
 acquisition adjustment?
- The Uniform System of Accounts states that 7 Acquisition Account 114--Electric Plant Adjustments. . . shall include the difference 9 between (1) the cost to the accounting utility 10 of electric plant acquired as an operating unit 11 or system by purchase, merger, consolidation, 12 liquidation, or otherwise and (2) the original 13 cost, estimated, if not known, of such property, 14 less the amount or amounts credited by the 15 accounting utility at the time of acquisition to 16 accumulated provisions for depreciation and 17 amortization and contributions in aid of 18 construction with respect to such property. 19

- 21 Q. Have you summarized the calculation of the plant
 22 acquisition adjustment which is expected from
 23 the purchase of Scherer Unit No. 4?
- 24 A. Yes, this is shown in Exhibit No. ____, Document No. 1.

- 1 Q. Please describe the sources of the data 2 contained in your Document No. 1.
- The source of the \$615,504,000 purchase price of A. the undivided interest in Scherer Unit No. 4 shown on Line No. 1 is the letter of intent dated July 30, 1990 between FPL and Georgia Power (letter of intent). FPL estimates that the cost of the unit will be increased by approximately \$2,000,000 (shown on Line No. 2) for legal, professional, and related costs necessary to complete the transaction.

These amounts are reduced by \$1,117,312 (Line No. 3) representing estimated depreciation included in the charges to be paid by FPL in connection with FPL's agreement to purchase 300 MW of unit power capacity from Georgia Power. These credits are specified in the letter of intent, and the UPS agreement with Georgia Power begins November 1, 1990 and ends December 31, 1990. Thus, the amount deducted from the purchase price represents depreciation charges for two months. This brings the total estimated cost of the unit to \$616,386,688 shown on Line No. 4.

As shown on Line No. 5, Georgia Power's estimated original cost of Scherer Unit No. 4 as of the closing date is \$525,185,917. Andersen & Co. personnel under my supervision verified this amount by comparing to Georgia Power's plant accounting records and budgeted Line No. 6 shows the estimated additions. accumulated depreciation as of each scheduled closing date. These amounts were verified by Arthur Andersen & Co. personnel under supervision by comparison to the balance shown in Georgia Power's records as of July 31, 1990 and recalculation of the increases from that date to the respective closing dates based upon applicable depreciation rates. Line No. 7 shows the amounts of fuel and other inventories to be purchased by FPL as contemplated in the letter of intent purchase price of \$615,504,000. inventory amounts represent an estimate of FPL's purchased inventory based on its purchase percentage of 25% of total Plant Scherer fuel at January 1, 1991 and actual materials and supplies inventories at December 31, 1989. These amounts will be adjusted to the actual inventory amounts which exist on the respective

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closing dates. Finally, Line No. 8 shows the adjustment to remove the deferred income taxes applicable to the debt component of AFUDC which Georgia Power had credited to the cost of the plant during its construction. This adjustment is necessary to conform the accounting for the cost of the unit to the method followed by companies subject to FPSC jurisdiction (i.e. to conform net of tax to the gross method of recording AFUDC), and the amounts were verified to Georgia Power's records by Arthur Andersen & Co. personnel under my supervision.

Line 10 shows the estimated plant acquisition adjustment of \$111,362,307, representing the difference between the purchase cost (Line No. 4) and the original cost (Line No. 9).

19 Q. What was the genesis of the requirement in the
20 Uniform System of Accounts to segregate original
21 cost and plant acquisition adjustments for
22 purchased utility property?
23 A. This requirement was adopted because of concerns

over inflated values of utility assets which were constructed by or purchased from affiliates

or acquired through mergers and other acquisitions as utility systems were being developed in the late 19th century and the early part of the 20th century. Such circumstances called into question the reasonableness of values which were in excess of original cost and led to the present regulatory accounting requirements.

9

10 Q. Is this a valid concern in the transaction with
11 Georgia Power?

No, as detailed in the testimony of Mr. Woody 12 13 and other FPL witnesses, FPL selected Georgia 14 Power's Scherer Unit 4 proposal as 15 superior to other alternatives available to FPL based on economic and other criteria. 16 No 17 affiliation between FPL and Georgia Power exists, and the Georgia Power proposal was 18 19 received at the time when FPL was considering 20 alternatives for expansion, including 21 cogeneration, purchased power, and construction. 22 Thus, the Georgia Power offer was received "in competition" with other alternatives. FPL and 23 24 Georgia Power engaged in extensive arm's-length 25 negotiation to arrive at the terms of the

2		over the reasonableness of the purchase price
3		for Scherer Unit No. 4.
4		
5	٥.	What regulatory accounting treatment does FPL
6		propose for the plant acquisition adjustment?
7	Α.	FPL proposes to record the plant acquisition
8		adjustment in Account 114Electric Plant
9		Acquisition Adjustments as specified in the FERC
10		Uniform System of Accounts. The balance in this
11		account would be amortized to Account
12		406Amortization of Electric Plant Acquisition
13		Adjustment over the depreciable life of the
14		unit.
15		
16	Q.	Does the Uniform System of Accounts expressly
17		provide for the amortization of plant
18		acquisition adjustments?
19	Α.	Yes, the Uniform System of Accounts provides in
20		the instructions to Account 114 that:
21		debit amounts recorded in this
22		account may be amortized to
23		Account 425Miscellaneous
24		Amortization over a period not
25		longer than the estimated

transaction. This should eliminate any concerns

1		remaining life of the properties
2		to which such amounts relate.
3		
4		These instructions further provide that should a
5		utility wish to account for debit amounts in
6		this account in any other manner, it shall
7		petition the Commission for authority to do so.
8		
9		Account 425 is a "below the line" account which
10		is presumed to be excluded from revenue
11		requirement determinations. For this reason,
12		FPL is asking for approval to use Account 406.
13		
14	٥.	In other words, FPL is petitioning the
15		Commission to amortize the plant acquisition
16		adjustment "above the line"?
17	A.	Yes, FPL is requesting that it be allowed to
18		include the amortization in operating expenses
19		as well as include the unamortized acquisition
20		adjustment in rate base, hereinafter referred to
21		as "rate base treatment."
22		
23	Q.	What should be the regulatory guidelines for
24		according rate base treatment of the amounts in

Account 114?

A. As in other cases where a commission determines
an investment in plant is prudent and
reasonable, the utility should be allowed to
both recover the capital invested in the plant
as well as earn a return on the value of the
plant.

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Cost in excess of original cost should be free from questions of propriety and prudence where that cost arises from an arm's-length transaction. Although the Uniform System of Accounts requires a segregation of those costs in excess of original cost, the entire cost represents the actual cost of the plant, and management is accountable for the entire cost. More importantly, the prudence of an investment does not depend simply on what the "original cost" was to the selling company. Moreover, it is conceivable that an investment made purchase from an affiliate could also reasonable and prudent where such a transaction represents the most beneficial choice customers. In my judgment, if a company makes a prudent investment, the entire cost of the

investment should be accorded rate

base

		treatment.

2

- 3 Q. Wouldn't it be good regulatory policy to signal
- 4 the need for restraint by excluding all -- or some
- 5 portion -- of the acquisition adjustment from rate
- 6 base?
- 7 A. No, where the utility has demonstrated (1) the
- 8 need for the facilities and (2) that the
- 9 purchased facility provides the greatest
- 10 customer benefit, a policy of disallowance of
- 11 plant acquisition adjustments would serve as a
- 12 disincentive for utility managers to make
- 13 prudent and reasonable decisions since they
- 14 would be denied an opportunity to earn a
- reasonable return on total capital invested.

- 17 Q. What would be good regulatory policy?
- 18 A. Good regulatory policy would encourage utility
- 19 managers to make planning and operating
- 20 decisions designed to produce:
- 21 o Adequate public service
- 22 o The lowest long-run revenue requirement
- 23 o A reasonable return to investors
- 24 Good regulatory policy should be clear and
- 25 administered evenly. This is particularly

important in the case of planning for capacity
expansion which requires forecasts of both
demand and supply variables over many years.
Given the difficulty of estimating with
certainty the future values of these variables,
poor or uncertain regulatory policy would cause
additional difficulty and would not benefit the
customer.

10 Q. Where regulators allow rate base treatment of a

11 plant acquisition adjustment based in part on

12 economic benefits to customers, should not the

13 acquisition adjustment be subject to future

14 disallowance if the economic benefits disappear?

15 A. No, that kind of regulatory policy would be an

16 incentive for very short-run decisions.

18 Q. Please explain.

A. Few, if any, businesses have the planning horizons required of utilities considering the need for additional capacity. Such decisions must be made prospectively, based upon the best information available, but considering numerous variables of both demand and supply. Capacity decisions, once made (and executed), represent

substantial sunk costs. When made on the basis of prudent, careful, and rigorous analysis of all available information and best management judgments, it would be patently unfair to deny recovery of actual legitimate costs because one or more of the planning variables turned out to be different from the forecast. In such an environment, there would be a strong incentive to managers to minimize financial risk by avoiding long-term commitments of capital necessary to assure adequate capacity and lower long-run costs.

14 Q. Has the Florida Public Service Commission
15 addressed the rate-making treatment of plant
16 acquisition costs in previous rulings?

Yes, although none of the cases of which I am aware involved transactions of the magnitude of the Scherer Unit No. 4 transactions, the Commission has allowed recovery of and return on acquisition adjustments where these plant acquisition adjustment costs were not greater than the benefits received by utilities' customers.

		May Const State Commissions 10110464 C111111					
2		policies on acquisition adjustments?					
3	A.	Yes, as an example, the Indiana Utility					
4		Regulatory Commission has addressed that					
5		question in a case involving Indiana Gas Company					
6		stating that:					
7		certain criteria are generally					
8		recognized as necessary in order					
9		to justify favorable					
10		acquisition adjustment treatment					
11							
12		Those criteria include:					
13		The excess of purchased price over original					
14		cost was paid as the result of an					
15		arm's-length bargaining between					
16		nonassociated buyer and seller;					
17		• The purchase necessitating the excess did					
18		or reasonably should have resulted in					
19		public benefit by improvement of service to					
20		customers or in lowered rates or both					
21		better service and lowered rates. (Indiana					
22		Utility Regulatory Commission, Cause No.					
23		38302, January 20, 1988, 89 PUR4th)					
24	2						
25	φ.	What has been the FERC's position on this issue?					

- 1 A. In its order in Dockets Nos. RP82-84-000,
- 2 RP83-45-000, and RP83-14-000 dated April 27,
- 3 1983, FERC stated:
- The Commission has recognized
- 5 that a purchaser may include the
- 6 acquisition adjustment in its
- 7 rate base upon a showing that the
- excess paid over the depreciated
- original cost results in specific
- dollar benefits to the pipeline's
- 11 customers. These benefits may
- include "decreases in rates,
- improved services or economies in
- 14 operation which are clearly
- related and solely the result of
- 16 the acquisitions." Further, the
- 17 benefits must be tangible and
- nonspeculative. (23 FERC P61,
- 19 151)
- 20
- 21 Q. Isn't it true that none of the regulatory
- 22 precedents you cite involved plant acquisition
- 23 adjustments of the magnitude of the Scherer Unit
- No. 4 transaction?
- 25 A. Yes. It is true that neither the cases I cite

nor any of which I am aware involve acquisition adjustments of this magnitude. I think it is unlikely that regulatory authorities have had to consider cases involving amounts this large or transactions of this nature. For that matter, transactions of this nature weren't contemplated when regulatory authorities developed and adopted the accounting requirements relating to original cost and plant acquisition adjustments.

A.

11 Q. Then of what relevance are these cases?

They are relevant insofar as these regulatory authorities express a willingness to permit recovery of and return on investments made which produce benefits to utilities' customers greater than alternative choices. In other words, the right regulatory answer doesn't depend totally on the regulatory accounting and reporting requirements.

Ratepayers shouldn't be deprived of benefits of better choices by utilities just because the choice involves purchase of existing property.

The appropriate regulatory response should provide an answer no different than when

considering choices among new construction
alternatives. And from the investors'
standpoint, the right answer should not depend
upon when the utility became the property's
owner.

6

7 Q. If the Commission allows FPL's request for rate
8 base treatment of the Scherer Unit No. 4 plant
9 acquisition adjustment, wouldn't it be a signal
10 encouraging widespread attempts by utilities to
11 recover inflated values paid to acquire utility
12 assets or businesses?

13 Only if the regulatory policy is misunderstood. It should be remembered that the Uniform System 14 of Accounts requires specific authority from the 15 16 Commission for rate base treatment, requirement so well-established that it 17 unlikely that such an attempt would escape 18 19 careful regulatory review. Each case would be evaluated on its merits, and a clear statement 20 of regulatory policy should avoid any undue 21 misunderstanding. 22

23

24 Q. How do s the evidence regarding the proposed
25 purchase of the Scherer Unit No. 4 by FPL relate

to the regulatory precedents you have outlined?

A. FPL witnesses have shown (1) the need for additional capacity, (2) the proposed purchase was negotiated at arm's-length, (3) the purchase price is reasonable, and (4) the Scherer Unit No. 4 purchase can be expected to provide economic and other significant qualitative benefits to FPL customers. This evidence clearly shows that the rate-making treatment of the Scherer Unit No. 4 plant acquisition adjustment proposed by FPL is justified under the regulatory precedents just outlined.

- 15 Q. Mr. Gower, do you believe that the evidence 16 regarding FPL's proposed purchase of Scherer 17 Unit No. 4 justifies favorable treatment of the 18 acquisition adjustment by the FPSC?
- 19 A. Yes, based on the testimony provided by FPL, I
 20 believe that it has met the necessary standards
 21 and that the Commission should allow favorable
 22 rate-making treatment of the plant acquisition
 23 adjustment--namely, inclusion in rate base and
 24 amortication above the line.

- 1 Q. Does this conclude your testimony?
- 2 A. Yes, it does.

FLORIDA POWER & LIGHT COMPANY

TO RESULT FROM THE PURCHASE OF AN UNDIVIDED INTEREST IN

SCHERER UNIT NO. 4

Line No.	Description	Amount
	COST OF ASSETS ACQUIRED:	
1 2	Purchase price	\$615,504,000
2	Estimated acquisition costs and expenses	2,000,000
3	Estimated UPS contract credits	(1,117,312)
4	Total estimated cost	616,386,688
	ORIGINAL COST OF ASSETS ACQUIRED:	
5	Original cost	525,185,917
6 7	Estimated accumulated depreciation	
7	Estimated fuel and materials	
8	inventories Adjustment for income tax effect of the debt portion of AFUDC	21,650,366 (b)
	by Georgia Power Company	27,606,780
9	Original cost of assets acquired	505,024,381
10	ESTIMATED ACQUISITION ADJUSTMENT	\$111,362,307

- (a) Represents actual accumulated depreciation at July 31, 1990, increased by 2.75% annual depreciation to respective closing dates.
- (b) Price of fuel and materials inventories to be adjusted to actual amounts at dates of closing.

Florida Power & Light Company
Docket No. _____
Witness: H. A. Gower
Exhibit No. ___ Document No. ___
Page ____ of ___