| | 1 | | GULF POWER COMPANY |
|---|----|----|---|
| | 2 | | a substantia Service Corrigion |
| | 3 | | Before the Florida Public Service Commission Direct Testimony of M. W. Howell |
| | 4 | | Docket No. 891345-EI Date of Filing December 15, 1989 |
| | 5 | | Date of Filing December 15, 1989 |
| | 6 | ۵. | Please state your name, business address and |
| | 7 | | occupation. |
| | 8 | Α. | My name is M. W. Howell, and my business address is |
| | 9 | | 500 Bayfront Parkway, Pensacola, Florida 32501. I am |
| - | 10 | | Manager of Transmission and System Control for Gulf |
| | 11 | | Power Company. |
| | 12 | | |
| | 13 | ۵. | Have you previously testified before this Commission? |
| | 14 | A. | Yes. I have testified in various congeneration, |
| | 15 | | territorial dispute, planning hearing, and fuel clause |
| | 16 | | adjustment dockets. |
| | 17 | | |
| | 18 | ۵. | Please summarize your educational and professional |
| | 19 | | background. |
| | 20 | λ. | I graduated from the University of Florida in 1966 |
| | 21 | | with a Bachelor of Science Degree in Electrical |
| | 22 | | Engineering. I received my Masters Degree in |
| | 23 | | Electrical Engineering from the University of Florida |
| | 24 | | in 1967, and then joined Gulf Power Company as a |
| | 25 | | Distribution Engineer. I have since served as Relay |
| | | | DOCUMENT NUMBER-DATE |
| | | | 12004 DEC 15 1989 |
| | | | |

FPSC-RECORDS/REPORTING

| 1 | Engineer, Manager of Transmission, Manager of System |
|----|--|
| 2 | Planning, Manager of Fuel and System Planning, and |
| 3 | Manager of Transmission and System Control. My |
| 4 | experience with the Company has included all areas of |
| 5 | distribution operation, maintenance, and construction; |
| 6 | transmission operation, maintenance, and construction; |
| 7 | relaying and protection of the generation, |
| 8 | transmission, and distribution systems; planning the |
| 9 | generation, transmission, and distribution system |
| 10 | additions in the future; bulk power interchange |
| 11 | administration; overall management of fuel planning |
| 12 | and procurement; and operation of the system dispatch |
| 13 | center. I have served as a member of the Engineering |
| 14 | Committee and the Operating Committee of the |
| 15 | Southeastern Electric Reliability Council, chairman of |
| 16 | the Generation Subcommittee and member of the Edison |
| 17 | Electric Institute System Planning Committee, and |
| 18 | chairman or member of a number of various technical |
| 19 | committees and task forces within the Southern |
| 20 | electric system and the Florida Electric Power |
| 21 | Coordinating Group, regarding a variety of technical |
| 22 | issues including generation expansion, transmission |
| 23 | expansion, transmission interconnection requirements, |
| 24 | central dispatch, transmission system operation, |
| 25 | transient stability, underfrequency operation, |
| | |

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| 1 | | generator underfrequency protection, system production |
|----|----|--|
| 2 | | costing, computer modeling, and others. |
| 3 | | |
| 4 | Q. | Have you prepared an exhibit that contains information |
| 5 | | to which you will refer in your testimony. |
| 6 | Α. | Yes. My exhibit consists of two schedules to which I |
| 7 | | will refer. Each schedule of this exhibit was |
| 8 | | prepared under my supervision and direction. |
| 9 | | Counsel: We ask that Mr. Howell's |
| 10 | | Exhibit, comprised of two |
| 11 | | Schedules, be marked for |
| 12 | | identification as Exhibit(MWH-1). |
| 13 | | |
| 14 | Q. | Are you the sponsor of certain Minimum Filing |
| 15 | | Requirements (MFRs)? |
| 16 | Α. | Yes. Those which I am sponsoring are listed on |
| 17 | | Schedule 2 of my exhibit. To the best of my |
| 18 | | knowledge, the information in all of the listed MFRs |
| 19 | | is true and correct. |
| 20 | | |
| 21 | Q. | What is the purpose of your testimony in this |
| 22 | | proceeding? |
| 23 | Α. | I will address the Company's participation in the |
| 24 | | Intercompany Interchange Contract (IIC), the benefits |
| 25 | | it provides to Gulf's customers, the Company's |

| 1 | off-system sales, transmission line rentals, |
|-----|--|
| 2 | transmission operation and maintenance (0 & M) |
| 3 | expenses, the transmission construction program, and |
| 4 | services provided by Southern Company Services, Inc., |
| 5 | (SCS) for the transmission and interchange functions. |
| 6 | |
| 7 (| . What is the function of the IIC? |
| 8 1 | A. The contract is a mechanism wherein the operating |
| 9 | companies of the Southern electric system - Alabama |
| 10 | Power Company, Georgia Power Company, Gulf Power |
| 11 | Company, Mississippi Power Company, and Savannah |
| 12 | Electric and Power Company - agree to operate an |
| 13 | integrated electric system or power pool. The IIC is |
| 14 | dynamic in nature in that it is reviewed annually and |
| 15 | updated as required to reflect changing conditions. |
| 16 | The contract is prepared under direction of the system |
| 17 | Operating Committee, which consists of one |
| 18 | representative from each operating company and one |
| 19 | representative from SCS. The transactions involved in |
| 20 | system operations and the sharing of benefits and |
| 21 | burdens of pooling among member companies are |
| 22 | specified in the IIC. Under terms of the IIC, the |
| 23 | generating resources of all member companies are |
| 24 | economically dispatched to serve the total system load |
| 25 | requirements. This concept insures that multiple |
| | |

| 1 | U.S. | benefits accrue to the customers of each operating |
|----|------|---|
| 2 | | company. |
| 3 | | |
| 4 | ۵. | What are the benefits Gulf customers derive from this |
| 5 | | type of pooling arrangement? |
| 6 | Α. | Gulf's customers benefit tremendously from Gulf |
| 7 | | participating in this pooling arrangement. This |
| 8 | | Commission has consistently recognized these benefits |
| 9 | | in past proceedings and rate orders. Our analyses |
| 10 | | over the years have consistently shown that Gulf's |
| 11 | | customers receive millions of dollars of benefits |
| 12 | | annually as a result of Gulf's participation in the |
| 13 | | pool, as opposed to operating separately. These |
| 14 | | benefits include, but are not limited to, the |
| 15 | | following: |
| 16 | | |
| 17 | | 1. Economic dispatch production cost savings. |
| 18 | | 2. Economic sharing of generating reserve |
| 19 | | capacity. |
| 20 | | 3. Ability to install large, efficient |
| 21 | | generating units. |
| 22 | | 4. Reduced requirements for operating reserves. |
| 23 | | 5. Pool market for temporary surpluses of |
| 24 | | capacity and energy on Gulf's system. |
| 25 | | |

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| 1 | 6. Ready supply of energy for purchase when Gulf |
|----|--|
| 2 | is short. |
| 3 | 7. Long-term power sale revenues. |
| 4 | 8. Unit power sale benefits. |
| 5 | 9. Peak-hour load diversity. |
| 6 | 10. Economy energy transaction benefits. |
| 7 | |
| 8 | These multiple benefits that accrue to Gulf and |
| 9 | the other system operating companies result from the |
| 10 | coordinated planning and operation of the power pool. |
| 11 | Certainly, increased reliability is a major factor in |
| 12 | pool operation. In the event of the loss of |
| 13 | generation or transmission ties within Gulf's system, |
| 14 | the pool responds instantly with replacement capacity |
| 15 | and energy from the most economical source available |
| 16 | at the time. Southern's many transmission |
| 17 | interconnections with neighboring utilities also allow |
| 18 | us to purchase power for the system in an emergency; |
| 19 | therefore, the multiple transmission ties to other |
| 20 | regional utilities ensure that we can buy the cheapest |
| 21 | energy available at all times. |
| 22 | Certainly, a major benefit of the pool to Gulf |
| 23 | Power has been the selection of generating unit size |
| 24 | in the Southern system. Because of the capacity |
| | |

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| 9. SE | equalization process under the IIC, we have been able |
|-------|--|
| 1 | |
| 2 | to completely own or purchase shares of 500 mw and |
| 3 | 800 mw state-of-the-art generating units. This |
| 4 | capacity has been purchased at lower cost per kw and |
| 5 | is more efficient generation than otherwise would have |
| 6 | been available to a relatively small company such as |
| 7 | Gulf. We could not support a sufficient spinning |
| 8 | reserve for such large units without participating in |
| 9 | the Southern electric power pool. Thus, it is our |
| 10 | participation in the pool and the IIC that enables |
| 11 | Gulf's customers to achieve the savings associated |
| 12 | with these large units. |

Coordination of major maintenance periods for turbine inspections can be a major problem for a company of Gulf's size. However, with the coordinated maintenance planning that takes place within the Southern system, we are able to accomplish major maintenance on our large generating units and purchase economical replacement power at the same time.

Gulf is also able to share in the diversity of power needs resulting from the system providing service to such a large geographical region. The territories of the system companies have weather, time zone, and customer mix differences. These differences result in variations in load patterns because the

| 1 | | operating companies do not all reach their annual peak |
|----|----|--|
| 2 | | demand at the same time. This improves overall system |
| 3 | | load factor and means that fewer generating units have |
| 4 | | to be constructed and committed to service at a given |
| 5 | | time, thus creating lower system production costs. |
| 6 | | |
| 7 | Q. | How will the Plant Daniel and Plant Scherer capacity |
| 8 | | that was previously committed to Unit Power Sales be |
| 9 | | treated in the IIC? |
| 10 | Α. | Now that this power is no longer committed to Unit |
| 11 | | Power Sales, it is a generating capacity resource for |
| 12 | | the territorial customer, and is treated like any of |
| 13 | | the Company's other territorial generating capacity |
| 14 | | resources. |
| 15 | | |
| 16 | ٥. | How is the IIC budget determined? |
| 17 | A. | The IIC budget is determined on a annual basis. The |
| 18 | | two components are the capacity and energy portions of |
| 19 | | the budget. Capacity determinations are made on a |
| 20 | | monthly basis, driven by each Company's forecasted |
| 21 | | peak hour monthly load and expected generating |
| 22 | | capacity. Sales from a surplus company to a deficit |
| 23 | | company are based on average embedded fossil |
| 24 | | generation costs. The energy budget is prepared |
| 25 | | utilizing a probabilistic dispatch model which |
| | | |

| | 1 | determines the most economical generation sources each |
|---------------------------------------|------|---|
| | 2 | hour to provide for the entire Southern system load. |
| | 3 | When it is more economical to buy from another pool |
| | 4 | member, rather than generate, the model captures this |
| | 5 | in the dispatch simulation. All the energy |
| | 6 | transactions for a year are aggregated by the model, |
| | 7 | and this information is represented in our pool |
| | 8 | budget. |
| | 9 | |
| | 10 0 | . Does membership in the Southern electric system power |
| | 11 | pool enable Gulf to participate in multiple off-system |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 12 | power sales agreements? |
| | 13 / | . Yes. The Southern electric system is in a regional |
| | 14 | position that allows the interchange and sale of power |
| | 15 | directly to thirteen other utility systems. Gulf has |
| | 16 | actual transmission line connections to only two of |
| | 17 | these systems. The IIC, which governs the operation |
| | 18 | of the Southern system power pool, provides for the |
| | 19 | equitable distribution of these sales among system |
| | 20 | companies, and this allows Gulf to be a party to |
| | 21 | thirteen different interchange contracts with regional |
| | 22 | utilities. Some of these neighboring utilities are |
| | 23 | heavily dependent upon oil and natural gas for |
| | 24 | electric generation. Because Gulf Power and the |
| | 25 | Southern system have an excellent mix of generation |
| | | |

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resources with a high percentage of economical coal 1 capacity, a market for sales of electricity off the Southern system has resulted. The coordination and economic dispatch of these generation resources make the Southern system a reliable source of economically priced energy for the entire region.

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These off-system sales fall into three 7 categories: (1) Economy energy sales, (2) Long-Term 8 Non-Firm capacity and energy sales, and (3) Unit Power 9 Sales (UPS). Economy energy sales occur when 10 Southern's incremental energy price is below that of 11 purchasing utilities. These sales have no associated 12 capacity, and the energy is priced on a 13 split-the-savings basis such that the customers of 14 both the selling and purchasing utilities benefit. 15 Currently, the Southern electric system sells economy 16 energy to ten neighboring utilities. In the future, 17 the system will continue to market this service to the 18 extent that it remains beneficial to the territorial 19 customers of the Southern electric system. 20

Long-Term Non-Firm sales consist of capacity 21 which is supplied out of the mix of fossil units on 22 the Southern system with energy sold at incremental 23 cost. Contracts for these sales allow the system's 24 operating companies to recall this capacity whenever 25

needed for its own territorial customers. Currently, the system has one Long-Term Non-Firm customer who has contracted sales until May, 2000.

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UPS are sales of capacity and energy 4 entitlements, based on specific generating units. 5 These sales provide for capacity based on 6 unit-specific costs. Currently, the generation 7 contracted in the 1982 UPS agreements ("old" UPS) is 8 being provided by generating units at Plants Miller 9 and Scherer to two customers until May, 1995. The 10 Southern system recently executed new UPS ("new" UPS) 11 contracts which cover sales to three utilities within 12 the state of Florida for the period 1993 through 2010. 13 The new UPS contracts are basically identical to those 14 executed in 1982 and are the product of comprehensive 15 and extended negotiation between representatives of 16 the Southern operating companies and representatives 17 of the three purchasing utilities. In the period from 18 January 1, 1993, to June 1, 1995, these new contracts 19 provide options which would allow the full contract 20 amount to be purchased by the UPS customers. These 21 sales will be made out of Units 1 through 4 of the 22 Miller Plant owned by Alabama Power and Unit 3 of the 23 Scherer Plant jointly owned by Georgia Power and Gulf 24 Power. New UPS will allow the Southern operating 25

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companies to substitute peaking capacity for coal base-load generating units at a lower total cost to the territorial customer. Schedule 1 of my exhibit summarizes the off-system sales now contracted by Southern.

The Southern operating companies are continually 6 evaluating new markets for off-system sales, including 7 Unit Power Sales. This action will continue to be an 8 alternative for future generation needs if the 9 Southern system companies can sell base capacity, 10 replace it with combustion turbines or other capacity, 11 and thereby save money for their territorial 12 customers.

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What has been the impact of off-system sales on Gulf's 15 0. retail customers? 16

These sales have provided revenues from short-term 17 A. surplus energy and capacity which have substantially 18 reduced the revenue required from the retail customer 19 to provide long-term reliable electric service. 20

The capability to participate in regional power 21 sales provided by its membership in the Southern 22 electric system pool has enabled Gulf Power to 23 purchase a share of Plants Daniel and Scherer at 24 tremendous savings to our customers. 25

| 1 | | During the early 1990's time frame, the |
|----|----|--|
| 2 | | off-system sales outlook shows that the Southern |
| 3 | | system may have additional capacity to sell if a |
| 4 | | potential purchaser can be located, including our |
| 5 | | 63 mw of Plant Scherer Unit 3. Beyond the mid 1990's, |
| 6 | | the system's reserves are projected to be within the |
| 7 | | target range. |
| 8 | | |
| 9 | ۵. | Does Gulf have transmission facility agreements which |
| 10 | | are related to its ownership in Plants Daniel and |
| 11 | | Scherer? |
| 12 | λ. | Yes. Gulf has such agreements with Alabama Power |
| 13 | | Company, Mississippi Power Company, and Georgia Power |
| 14 | | Company. These agreements, sometimes referred to as |
| 15 | | transmission rental agreements, compensate these |
| 16 | | companies for their transmission facilities used by |
| 17 | | Gulf to deliver our capacity and energy from the |
| 18 | | jointly owned plants in Mississippi and Georgia to our |
| 19 | | service territory. The charge to Gulf from |
| 20 | | Mississippi Power is related to the Daniel-Wade-Barry |
| 21 | | 230 kilovolt transmission line which begins at Plant |
| 22 | | Daniel in Mississippi, runs to the Wade Substation in |
| 23 | | Mississippi, and terminates at Plant Barry in Alabama. |
| 24 | | The charge to Gulf from Alabama Power is related |
| 25 | | to the Barry-Crist 230 kv line which begins at Plant |
| | | |

Barry in Alabama and interconnects with the Gulf Power system at the Florida state line.

These charges to Gulf from Alabama Power and Mississippi Power are based on the cost of these transmission facilities, and are a small fraction of what a fully embedded transmission service charge or alternative transmission construction would cost Gulf.

The charge to Gulf from Georgia Power is related 8 to transmission facilities owned by Georgia Power 9 which are utilized to deliver capacity and energy from 10 Plant Scherer Unit 3. This charge is significantly 11 less in 1990 than what a fully embedded transmission 12 service charge or alternative transmission 13 construction would cost Gulf. In all cases, the 14 available alternatives of a fully embedded 15 transmission service charge or construction of new 16 facilities were evaluated prior to our decision. 17

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Q. Please summarise transmission O & M expenses for 1990
as compared to the benchmark level for transmission.
A. Total transmission O & M expenses consist of two major
categories: transmission line rents, and other
transmission expenses. Total transmission line rents
for 1990 are budgeted to be \$3,017,839. While

Mr. Scarbrough has discussed the accounting treatment 1 related to transmission line rental benchmarks, I want 2 to emphasize that the benchmark philosophy really is 3 inadequate to determine a reasonable level of expenses 4 in this area. Earlier, I discussed the manner in 5 which the transmission line rental charges were 6 7 determined and stated that they represented significantly less cost to Gulf's customers than the 8 other alternative of utilizing the standard embedded 9 cost of transmission facilities as a basis for 10 transmission service charges. Thus, not only will our 11 customers realize millions of dollars in savings over 12 the life of the associated shared plants through 13 generation cost savings, but they also receive 14 additional savings through the lower transmission 15 service costs which we have been able to secure. 16 Because of this, it is simply inappropriate to apply a 17 18 benchmark philosophy to this class of expenses without making the adjustments set forth in Mr. Scarborough's 19 20 testimony.

The remaining transmission 0 & M expenses for 1990 are budgeted to be \$4,279,584, while the 1990 benchmark amount for this area is \$3,602,137. These expenses are over their benchmark by \$677,447. This difference is due to the need for new funds to conduct

| 1 | | groundwater testing at Gulf's substation sites in |
|----|----|---|
| 2 | | order to comply with the State of Florida, Department |
| 3 | | of Environmental Regulations' Consent Order #88-0471. |
| 4 | | A justification of this variance appears in MFR C-57. |
| 5 | | As discussed in Mr. Gilbert's testimony, each |
| 6 | | department at Gulf Power Company which charges to |
| 7 | | transmission accounts goes through a detailed review |
| 8 | | during each budget cycle regarding expenses for the |
| 9 | | budget year which are necessary to maintain a |
| 10 | | dependable and reliable transmission system. These |
| 11 | | expenses are reviewed on a departmental and |
| 12 | | company-wide basis before being recommended for |
| 13 | | approval by the budget committee. Thus, these |
| 14 | | expenses receive several levels of review prior to |
| 15 | | being included in the budget. |
| 16 | | |
| 17 | Q. | What transmission efficiency improvements has Gulf |
| 18 | | implemented since 1984? |
| 19 | λ. | In 1985, Gulf purchased a second mobile substation |
| 20 | | unit and located it in Panama City. This unit |
| | | |

provides transformer overload relief, reduces construction costs, and allows facility maintenance 22 23 and testing to be performed without service interruption. Also in 1985, a program was initiated 24 25 to bid out the reclearing of transmission line

| 1 | rights-of-way. Bids are received from several |
|-------|--|
| 2 | contractors early in the year in which reclearing is |
| 3 | required so as to insure the lowest possible cost for |
| 4 | the work required. |
| 5 | Also, the use of computer equipment has been |
| 6 | significantly expanded since 1984 to relieve |
| 7 | departmental personnel of many tasks now more easily |
| 8 | and efficiently done via computer. The production of |
| 9 | many vital reports, which were previously generated by |
| 10 | hand, are now produced by computer. |
| 11 | |
| 12 Q. | Please give a summary of your transmission |
| 13 | construction program. |
| 14 A. | |
| 15 | plant-in-service is projected to be \$189 million. Our |
| 16 | current estimate for 1990 indicates that we expect to |
| 17 | spend approximately \$10.3 million for new |
| 18 | construction. These transmission expenditures are |
| | necessary to serve new customers, to strengthen the |
| 19 | |
| 20 | transmission system to meet additional demand |
| 21 | resulting from load growth, and to replace damaged, |
| 22 | worn-out, or obsolete facilities. All of these |
| 23 | transmission construction items are necessary to serve |
| 24 | the customer's current and future electric needs. |
| 25 | |

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| 1 | All transmission capital projects are reviewed |
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| 2 | each year before they are either added to or retained |
| 3 | in the budgeting process. Long-range transmission |
| 4 | planning studies are performed annually which |
| 5 | determine future transmission system improvements |
| 6 | which will be needed in the coming ten-year period. |
| 7 | When future deficiencies are expected, alternative |
| 8 | improvements are determined, and the most |
| 9 | cost-effective solution is recommended for inclusion |
| 10 | in the budget. Several departments within the company |
| 11 | review these recommendations to ensure that these are |
| 12 | the most cost-effective and practical solutions |
| 13 | available. Additionally, all projects, including |
| 14 | transmission and other functional areas, are subjected |
| 15 | to a comprehensive review by a corporate task force |
| 16 | prior to being recommended to the budget committee for |
| 17 | inclusion in the budget. Generically, a project is |
| 18 | included in the budget at least four years before |
| 19 | expenditures will be required. Once a project is in |
| 20 | the budget, it is subjected to the same rigorous |
| 21 | review on a annual basis as any new project; thus, a |
| 22 | transmission capital project will generally have a |
| 23 | number of reviews prior to dollars actually being |
| 24 | spent on the improvement. |
| | |

| 1 | ۵. | What is Gulf doing to minimise new construction | |
|----|----|--|--|
| 2 | | expenditures? | |
| 3 | Α. | Transmission system improvements are evaluated on an | |
| 4 | | alternative economic basis before being included in | |
| 5 | 1 | the budget. Construction for major transmission lines | |
| 6 | | is awarded on the basis of competitive bids from | |
| 7 | | qualified contractors. Transmission equipment and | |
| 8 | | material requirements are also awarded on the basis of | |
| 9 | | competitive bids. This process ensures the lowest | |
| 10 | | installed cost to Gulf's customers. | |
| 11 | | | |
| 12 | ٥. | Please describe the services provided to your | |
| 13 | | department by Southern Company Services. | |
| 14 | Α. | Transmission and System Control takes advantage of the | |
| 15 | | pool of specialized professionals at Southern Company | |
| 16 | | Services, Inc. (SCS) who utilize highly developed | |
| 17 | | computer facilities to assist in the evaluation, | |
| 18 | | design, and operation of Gulf's transmission | |
| 19 | | facilities. These services are not only economical | |
| 20 | | because of the sharing of these pooled resources with | |
| 21 | | other operating companies in the system, but also | |
| 22 | | because they are provided at cost to Gulf Power. | |
| 23 | | These services provided by SCS include | |
| 24 | | transmission system equipment evaluations, | |
| 25 | | transmission line and substation design, coordination | |

| 1 | | of Gulf's transmission system operations through the |
|----|----|--|
| 2 | | Power Coordination Center in Birmingham, processing of |
| 3 | | system operations data, system security, power |
| 4 | | marketing activities, and Interchange Contract |
| 5 | | budgeting and billing. |
| 6 | | |
| 7 | Q. | Please summarise your testimony. |
| 8 | Α. | Because of Gulf's participation in the Southern system |
| 9 | | power pool and the IIC, there are tremendous monetary |
| 10 | | benefits which are provided to Gulf's customers. The |
| 11 | | low cost, shared capacity which Gulf was able to |
| 12 | | purchase at Plants Daniel and Scherer are examples of |
| 13 | | how our participation in the IIC has benefited our |
| 14 | | customers. Because Gulf is affiliated through the |
| 15 | | contract with an extremely large power system, there |
| 16 | | are opportunities for off-system sales which result |
| 17 | | from the other system companies and their |
| 18 | | interconnections with outside utilities. These |
| 19 | | opportunities for additional sales have provided |
| 20 | | significant additional monetary benefits to our retail |
| 21 | | customers. Our transmission construction and 0 & M |
| 22 | | costs are carefully controlled, and we are within the |
| 23 | | Commission's benchmark levels except for the |
| 24 | | groundwater testing program which is required as a new |
| 25 | | area of expense by the State of Florida. Our efforts |
| | | |

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| 1 - | in securing transmission facility agreements related |
|------|--|
| 2 | to our shared ownership of capacity at Plants Daniel |
| 3 | and Scherer have resulted in significant savings over |
| 4 | standard transmission arrangements, thus significantly |
| 5 | reducing the long-term cost to customers. In all our |
| 6 | activities in the transmission and interconnection |
| 7 | area, Gulf has consistently acted prudently and |
| 8 | devised contracts and procedures which will serve to |
| 9 | minimize our customer's long-term cost. |
| 10 | |
| 11 Q | . Does this conclude your testimony? |
| 12 A | . Yes. |
| 13 | |
| 14 | |
| 15 | |
| 16 | |
| 17 | |
| 18 | |
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AFFIDAVIT

STATE OF FLORIDA) COUNTY OF ESCAMBIA)

Before me the undersigned authority personally appeared M. W. Howell, who first being duly sworn, says that he is the witness named in the testimony to which the Affidavit is attached; that he prepared said testimony and any exhibits included therein on behalf of Gulf Power Company in support of its petition for an increase in rates and charges in Florida Public Service Commission Docket No. 891345-EI; and that the matters and things set forth herein are true to the best of his knowledge and belief.

Dated at Pensacola, Florida this _____ of December, 1989.

W. Howell

Sworn to and subscribed before me day of December, 1989. this

lotary Pu Expires: 8/14/93

Florida Public Service Commission Docket No. 891345-EI Gulf Power Company Witness: M. W. Howell Exhibit No. (MWH-1) Schedule 1

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SUMMARY OF SOUTHERN SYSTEM OFF-SYSTEM CAPACITY SALES

(1) Long-term Non-firm Sales

Florida Public Service Commission Docket No. 891345-EI Witness: M. W. Howell Exhibit No. (MWH-1) Schedule 2

RESPONSIBILITY FOR MINIMUM FILING REQUIREMENTS

| SCHEDULE | TITLE |
|----------|---|
| A-8 | Five Year Analysis - Change in Cost |
| C-8 | Report of Operation Compared to Forecast - Revenues and Expenses |
| C-12 | Budgeted Versus Actual Operating Revenues and Expenses |
| C-19 | Operation and Maintenance Expenses- Test Year |
| C-20 | Operation and Maintenance Expenses- Prior Year |
| C-21 | Detail of Changes in Expenses |
| C-57 | 0 & M Benchmark Variance by Function |
| C-60 | Transactions with Affiliated Companies |
| C-61 | Performance Indicies |
| C-65 | Outside Professional Service |
| F-9 | Forecast Models |
| F-17 | Assumptions |