

1                   **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

2                   **FLORIDA POWER & LIGHT COMPANY**

3                   **DIRECT TESTIMONY OF GEISHA J. WILLIAMS**

4                   **DOCKET NO. 050045-EI**

5                   **MARCH 22, 2005**

6

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

8    A.    My name is Geisha J. Williams. My business address is Florida Power & Light  
9            Company, 9250 W. Flagler Street, Miami, Florida, 33174.

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

11   A.    I am employed by Florida Power & Light Company (FPL or the Company) as  
12           Vice President, Distribution.

13 **Q.    Please describe your duties and responsibilities in that position.**

14   A.    I am responsible for the planning, engineering, construction, operations,  
15           maintenance, and restoration of FPL's distribution infrastructure.

16 **Q.    Please describe your educational background and professional experience.**

17   A.    I have a Bachelor of Science degree in industrial engineering from the University  
18           of Miami and a Masters of Business Administration from Nova Southeastern  
19           University. I joined FPL in 1983 and have served in a variety of positions in  
20           distribution operations, customer service, and marketing. I have been Manager of  
21           Commercial/Industrial Marketing, Regional Manager of Customer Service, and  
22           Manager of External Affairs. I also am a member of the Dean's Advisory  
23           Council for the College of Engineering at Florida International University, a

1 member of the Association of Edison Illuminating Companies' Power Delivery  
2 Committee, a member of Leadership Florida Class XXIII, a former Commissioner  
3 of the 11th Circuit Judicial Nominating Commission, and a former director of the  
4 Florida Chamber of Commerce Management Corporation.

5 **Q. Are you sponsoring an exhibit in this case?**

6 A. Yes. I am sponsoring an exhibit consisting of three documents, GJW-1 through  
7 GJW-3, which are attached to my direct testimony.

8 **Q. Are you sponsoring or co-sponsoring any MFRs in this case?**

9 A. Yes. I am co-sponsoring the following MFRs:

- 10 • B-13 – Construction Work in Progress
- 11 • B-24 – Leasing Arrangements
- 12 • C-8 – Detail of Changes in Expenses
- 13 • C-15 – Industry Association Dues
- 14 • C-34 – Statistical Information
- 15 • E-7 – Development of Service Charges

16 **Q. What is the purpose of your testimony?**

17 A. The purpose of my testimony is to describe the superior reliability and customer  
18 service, and the effective cost management provided by the Distribution business  
19 unit (Distribution) to FPL customers. I will also discuss the upward cost  
20 pressures on Distribution and their impact on the 2006 forecast.



1                   therefore, is the most relevant indicator for customers. For 2003 and  
2                   2004 FPL's results were the best in the State. Further, based on the  
3                   Edison Electric Institute's (EEI) 2003 Reliability Report, FPL  
4                   Distribution's performance ranks among the industry leaders and is  
5                   50% better than the industry average.

- 6                   – A reduction of more than 20% in the average annual number of  
7                   outages that a customer experienced. The industry standard  
8                   measurement for this “frequency” element is the System Average  
9                   Interruption Frequency Index (SAIFI).
- 10                  – A reduction of more than 10% in the average time it takes to restore a  
11                  customer's power if an outage does occur. This “duration” element is  
12                  measured by the Customer Average Interruption Duration Index  
13                  (CAIDI).

14  
15                  It should be noted that this excellent performance has been achieved while base  
16                  rates have been reduced by more than 15% since 1998.

17   **Q.   Please provide some examples of the reliability initiatives.**

18   A.   Vegetation Management – Vegetation growth into power lines represents one of  
19                  the top causes of customer interruptions and is a particular challenge in Florida  
20                  due to the year-round growing season. FPL has always had a program in place for  
21                  vegetation management, but beginning in 1997 Distribution has significantly  
22                  enhanced it. In 2004, Distribution trimmed vegetation from 9,300 miles of line.  
23                  This represents about 1,800 more miles (almost a 25% increase) over the 7,500

1 miles trimmed in 1998. We estimate this has meant avoiding about 1 million  
2 customer interruptions annually. We are currently on a 3-year cycle for all  
3 feeders and are accelerating the pace for laterals. We have also achieved  
4 additional outage reductions by moving to a circuit-clearing practice whereby we  
5 trim all feeders and laterals associated with a given substation at the same time.

6  
7 Cable Rehabilitation – Another significant cause of interruptions has been  
8 underground cable failures. Since 1998, about 2,400 miles of direct buried feeder  
9 and lateral cable have been rehabilitated either by injecting the cable with silicone  
10 which extends its life or, when injection was not an option, by replacing the cable.  
11 We have determined that once a section of cable experiences a couple failures  
12 replacing or injecting the cable is the best way to avoid increasingly frequent  
13 outages. We estimate this program has avoided more than 47,000 customer  
14 interruptions since 1998.

15  
16 Automated Feeder Switches – This program started as a pilot in 2001 with the  
17 first significant deployments in 2002. It consists of installing, operating and  
18 maintaining remotely-controlled automated switches which isolate faults by  
19 segmenting lines into smaller sections. The result is that fewer customers are  
20 affected by any given fault thereby reducing the overall number of customers  
21 interrupted. To date, more than 300 switches have been deployed with  
22 approximately another 400 planned for installation by 2006. Even though this is a

1 relatively recent program, we estimate that almost 140,000 customer interruptions  
2 have already been avoided.

3 **Q. What benefits has Distribution seen from reliability research and**  
4 **development efforts?**

5 A. Distribution continuously works on developing and evaluating a number of new  
6 innovative technologies. I will discuss a couple of these that are aimed at  
7 addressing equipment failures, a significant cause of outages.

8  
9 Partial Discharge Testing – This diagnostic tool used for testing underground  
10 cables to identify existing or potential locations of faults has already yielded  
11 substantial cost savings. FPL has been an early adopter of this emerging  
12 technology which we have successfully employed in two ways. First, to  
13 determine the extent of work needed to repair a cable or splice after a failure.  
14 Previously, the solution was to replace the entire cable. But, as a result of the  
15 more precise diagnosis, we have saved approximately \$5 million by replacing  
16 only the sections needed. Second, we have used the tool on a preventative basis  
17 to test cables to see if they are vulnerable to failure. We have saved about \$8  
18 million so far by avoiding replacement of cable sections that should have been at  
19 their end of life based on age but were found to still be functioning adequately.

20  
21 Lightning Protection and Predictive Modeling – We are studying ways to  
22 minimize the impact to customers of lightning by developing enhancements to  
23 make our facilities more resistant and by better prediction of weather events.

1           These measures should reduce the number of interruptions, restoration time and  
2           associated cost. The Lightning Protection Standards project is designed to search  
3           for enhanced construction or other protection schemes. The data collected thus  
4           far by triggering strikes on a de-energized line section enabled us to develop a  
5           computer model which simulates the impact of lightning in multiple framing and  
6           operating conditions. Initial results indicate that in most cases our existing  
7           protection and framing standards are adequate for nearby strikes, but cannot  
8           withstand a direct strike. We are also working to enhance our lightning location  
9           and timing forecast modeling which should increase the effectiveness of our  
10          service centers in allocating resources. We have already improved forecast  
11          accuracy by establishing correlations and statistical equations between lightning  
12          occurrences and various weather parameters such as; wind flow speed, direction  
13          and temperature, moisture, and convection. We plan to continue refining the  
14          model by incorporating additional specialized parameters from the National  
15          Weather Service.

16   **Q.    Given the success of Distribution's reliability program, what are your plans**  
17   **going forward?**

18   **A.**   We continue to aggressively seek ways to further improve reliability to our  
19          customers. An example of the difficult challenges we face is reducing vegetation-  
20          related interruptions. First, some customers refuse to permit pruning or removal  
21          of trees which interfere with the lines, thereby delaying or preventing necessary  
22          work. Ensuring safer and more reliable operations in these circumstances will  
23          require closer community and developer involvement to address current situations

1 and avoid future problems through better landscape design. Second, even though  
2 the number of customers affected by tree-related interruptions has been reduced,  
3 additional resources need to be applied to avoid outages on lateral lines. As  
4 mentioned before, this requires increasing the frequency of trimming these  
5 circuits. Therefore, it is necessary and prudent to make further significant  
6 incremental investments in our vegetation management program.

7  
8 We will also continue to perform proactive analysis to identify any worsening  
9 trends for any of our infrastructure components and take the appropriate  
10 mitigation steps. Additionally, we will continue to improve our inspection and  
11 predictive modeling programs. Finally, our Model Feeder initiative will allow us  
12 to continue optimizing the configuration of feeders we construct.

13 **Q. As was evident from the unprecedented 2004 season, restoration of service**  
14 **after hurricanes and tropical storms is an important issue in Florida. Please**  
15 **comment on your emergency preparedness and the 2004 restoration results.**

16 **A.** Many records were established during 2004's storm season. This was only the  
17 second time in recorded history that four hurricanes have struck a single state in  
18 one year – and the last time was 120 years ago. Also, three hurricanes have never  
19 previously made landfall in FPL's service territory in one year. And, to our  
20 knowledge, the 2.8 million outages associated with Hurricane Frances were the  
21 most ever experienced by a single utility in U.S. history (only four other utilities  
22 have that many customers). The storms impacted virtually every part of our  
23 27,000 square mile service territory, requiring 5.4 million customer restorations.



1 More than 3.1 million, or 75%, of our 4.2 million customers were affected at least  
2 once.

3  
4 FPL has developed, and continuously hones, comprehensive contingency plans  
5 for rapid and safe restoration of customers' service. These plans are thoroughly  
6 tested and refined through annual "dry run" exercises and by performance  
7 analysis after each event. FPL's primary mission is to safely restore the greatest  
8 number of customers in the least amount of time so that the communities we serve  
9 are able to return to normalcy as rapidly as possible. Our many years of  
10 experience have shown that extensive planning, training, process discipline, on-  
11 site management teams' expertise, and scalable implementation are critical.

12  
13 The 2004 restoration results demonstrate that by consistently and flexibly  
14 applying our restoration strategy we successfully achieved our primary mission.  
15 Over 75% of the affected customers were restored by the third day after each  
16 storm. We were able to effectively manage as many as 13 staging sites per event  
17 and coordinate up to 16,700 personnel – both of which were substantially more  
18 than in any prior restoration. While in recent times FPL has experienced a  
19 number of lesser hurricanes, only once did we have to restore in the wake of a  
20 major hurricane, Hurricane Andrew in 1992. However, in 2004, we experienced  
21 the landfalls of two major hurricanes and one category two hurricane within six  
22 weeks. In spite of the challenges, we completed restoration from all these storms  
23 in two weeks or less, as compared to more than one month for Andrew. Based on

1 these outcomes, we believe that our emergency restoration response plans,  
2 processes and implementation proved to be highly effective and significantly  
3 exceeded all past performance.

4  
5 FPL is recognized as an industry leader in storm restoration. We have been  
6 visited by numerous other utilities desiring to learn and implement our processes  
7 and practices. Further validation of this expertise is the industry awards we have  
8 received. FPL has received EEI awards for its emergency response performance  
9 three times in the past four years. First, in 2000, we received the Emergency  
10 Response Award for our performance during Hurricane Irene, which affected 1.4  
11 million customers. Secondly, in 2003, FPL was recognized with the Emergency  
12 Assistance Award for our efforts in supporting Dominion Virginia Power during  
13 Hurricane Isabel. And again this year, our industry-leading performance was  
14 recognized with the 2004 Emergency Response Award.

#### 15 16 **CUSTOMER SERVICE**

17 **Q. In addition to the customer benefits resulting from excellent reliability and**  
18 **restoration, please describe some of Distribution's other initiatives aimed at**  
19 **delivering continuously improving customer service.**

20 **A.** Distribution is very focused on providing our customers with dependable service  
21 **delivered in a responsive and caring manner.** We recognize that any power  
22 outage, whether due to a hurricane, a thunderstorm, new infrastructure  
23 construction, system maintenance, or some other cause, is a source of

1 inconvenience and stress for customers. For this reason, we have identified key  
2 customer issues, developed solutions, and implemented many initiatives that have  
3 boosted the effectiveness of our customer service, particularly in the areas of  
4 communications and process performance. To support these enhancements, we  
5 have also implemented many significant new information systems.

6 **Q. Regarding customer communications, what measures has Distribution**  
7 **undertaken to ensure effective performance in this critical area?**

8 A. One prime example is providing better information to our customers when they  
9 experience an outage. FPL was an industry pioneer in providing customers with  
10 immediate Estimated Time of Restoration (ETR) for service when a customer  
11 calls to report an outage.

12  
13 In creating the ETRs, FPL uses sophisticated computer simulations that analyze  
14 the pattern of calls received to determine what type of facility is likely affected  
15 and uses those results to create the estimate. Some of the factors that are  
16 evaluated are historic requirements for the specific type of repair, crew workload,  
17 time of day, season, and geographic location. To provide customers further  
18 flexibility, they can receive this information either through FPL's voice response  
19 unit (VRU) or by speaking directly with a care center representative. Once repair  
20 personnel arrive and assess the situation, an updated estimate is communicated to  
21 our dispatch center if necessary. If a customer desires, they are automatically  
22 called back with an update whenever the new estimate varies from the original by  
23 more than one hour (either up or down). Other information provided includes the

1 outage cause, number of customers affected, and damage found. Customers are  
2 also called back after the work is complete to ensure that their power has been  
3 restored.

4  
5 We continue to work to improve the quality of both the estimates and the delivery  
6 mechanisms. The tables used for the estimates are routinely updated to reflect  
7 anticipated performance based on history, so that the estimates will be as accurate  
8 as possible. Currently, in excess of 80% of our trouble tickets are being restored  
9 within the targeted one hour of the ETR time – an overall excellent level of  
10 accuracy. Also, the VRU and screens used by the care center representatives have  
11 undergone substantial redesign to ensure consistency, the use of customer-friendly  
12 terms, and to include additional information and scripting regarding issues such as  
13 the crew’s status, outage cause, ETR updates, and area-specific emergency  
14 messages. Finally, like other care center processes, random samples of  
15 interactions with customers are monitored and evaluated to ensure proper quality  
16 control and performance.

17 **Q. Since excellent customer service relies on consistent process performance,**  
18 **how do you ensure FPL is delivering on this throughout the service territory?**

19 A. FPL has always focused on continuous improvement in this area. To build on  
20 previous advancements, we have launched a program called “Model Area.”  
21 Initiatives in this program target standardizing field process delivery to improve  
22 productivity, meet customer commitments, and keep customers fully informed  
23 along the way. Assessments are conducted to provide area-level reviews of

1 compliance with established field processes. Hundreds of process steps are  
2 evaluated and training is conducted to reinforce areas of good performance and  
3 address any needed enhancements. Development and refinement of computer  
4 systems provide critical support for this program.

5 **Q. Can you further explain the role technology is playing in delivering enhanced**  
6 **customer service?**

7 A. Yes. Distribution has made, and continues to make, substantial investments to  
8 expand our existing computer systems' capabilities to provide customers better,  
9 more efficient service and information. We are nearing completion of a  
10 comprehensive program implementing several major new systems. For example,  
11 we have installed a new data and voice radio communication system. This system  
12 helps to eliminate delays in the movement of service restoration crews throughout  
13 our service territory and provides more complete coverage allowing mobile data  
14 terminals to be used system-wide. The value of these capabilities has been  
15 demonstrated in the past and was again evident during the 2004 storm  
16 restorations. Crews who moved from one end of the state to the other could  
17 immediately go to work without the delays previously required to reprogram  
18 radios and mobile terminals.

19  
20 A new Work Management System was implemented providing the ability to  
21 manage and measure all work from a single system with resource management  
22 tools. This system improves resource utilization through enhanced scheduling to  
23 better meet customer commitments. Cumulative cost savings since 2003 have

1           been almost \$30 million from increased crew productivity and reduced third-party  
2           contracting.

3  
4           A companion system is the Mobile Work Management System. This paperless  
5           system allows field crews to receive, update and complete work using laptops in  
6           their trucks. Approximately 250 crews are using the system and over 30,000  
7           work requests have been completed to date using this tool. 2004 savings were in  
8           excess of \$2 million. Productivity gains are derived from increasing available  
9           work time by reducing travel, administrative and technical support time.

10

11           Additional examples of new or upgraded systems are:

12                   – The new Asset Management System which houses records of all  
13                   existing and proposed facilities with their precise location and other  
14                   relevant information displayed in a geographical format. Besides daily  
15                   operational benefits, direct savings are expected from reduced drafting  
16                   labor costs.

17                   – The new Routine Work Management System distributes work orders  
18                   to the field metering department via hand-held devices. It  
19                   automatically schedules work based on crew workload, work area, and  
20                   the closest personnel to the job. This increased productivity enhances  
21                   our ability to meet customer commitments for repairs and has already  
22                   saved about \$2 million. Savings are driven by more efficient connect  
23                   and disconnect performance and decreased dispatcher time.

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– The new Distribution Management System is currently being implemented and will provide a real-time computer model of the distribution network to Dispatch Center operators. Information currently tracked on wall-mounted “trouble boards” will be electronic and accessible from any location via FPL’s intranet. In addition to operational improvements, future savings are expected from dispatch labor reductions.

All of these measures, and additional planned system enhancements, are substantially improving efficiency, process consistency and customer communications and help provide savings to offset other cost requirements.

**Q. Have these actions resulted in improved customer service?**

A. Yes. Since 1998, there has been a reduction of about 55% in logged service quality-related customer complaints per 1,000 customers.

**Q. You have previously mentioned safety in conjunction with other issues. Would you comment on Distribution’s worker safety performance?**

A. Yes. FPL considers safety to be integral to effective operations. The superior reliability and customer service discussed above have been delivered while maintaining a continual focus on worker safety. In fact, Distribution is currently posting our best safety performance on record. As a result of concerted and sustained efforts, we have achieved about a 45% improvement since 1998 in the Occupational Safety & Health Administration’s (OSHA) industry-standard metric of reportable injuries per 200,000 man-hours. The absolute number of injuries

1 has declined by almost 40%. This achievement is even more impressive given the  
2 requirements of performing three back-to-back-to-back hurricane restorations in  
3 2004.

4  
5 The main reason for this dramatic improvement is our commitment to the “Total  
6 Safety Culture”. This program involved establishing a partnership with  
7 employees to institute an environment where actions are guided by the principles  
8 of trust, open communication, mutual respect, and actively caring. Some of the  
9 specific actions involved are crew visits to ensure compliance with safety rules,  
10 peer-to-peer observations and coaching, plus constant communication of the  
11 safety plan with monthly themes. Distribution continues to enhance and refresh  
12 the program. New initiatives such as the recent “Make the Right Choice – Work  
13 Safe” campaign serve to constantly reinforce the need for everyone’s continued  
14 commitment to safety principles.

## 15 16 **2006 DISTRIBUTION COSTS**

17 **Q. Please discuss your recent and forecasted capital expenditures.**

18 A. Document No. GJW-3 shows that the required capital investment in the  
19 Distribution infrastructure is forecasted to be about \$1.8 billion between 2002 and  
20 2006. These capital expenditures are primarily driven by customer growth,  
21 reliability initiatives, and infrastructure restoration and maintenance. Customer  
22 growth is by far the largest factor, accounting for about 65% of the capital  
23 investment. Every year, since 2002, FPL has been adding in excess of 100,000



1 new service accounts, the size of an entire small utility, and that level is forecast  
2 to continue through 2006. Accommodating this growth requires investment not  
3 only for the hook ups of individual residences and businesses, but also for  
4 capacity upgrades to the upstream network such as new feeders and related  
5 equipment, and for other supporting infrastructure such as street lights. The  
6 second major investment requirement is for reliability improvements, the  
7 customer benefits of which have been described earlier in my testimony. These  
8 initiatives account for about 15% of expenditures. As shown in Document No.  
9 GJW-1, there are a number of different initiatives, but the heaviest capital  
10 requirements are related to the Cable Rehabilitation and Automated Feeder  
11 Switching initiatives. The last major driver is restoration and maintenance which  
12 combined account for about 15% of spending. The remaining expenditures are  
13 for relocations of facilities, vehicle acquisition, and multiple other smaller  
14 requirements.

15 **Q. Please comment on Distribution's recent and forecasted Operations &**  
16 **Maintenance (O&M) costs.**

17 A. As shown in Document No. GJW-3, Distribution has been able to largely offset  
18 increased O&M costs in past years through cost management efforts. The result  
19 has been a relatively modest total rise of less than 5% (less than 1% per year) for  
20 the period of 1998 through 2003. If this trend were carried forward from 2003,  
21 the forecasted 2006 O&M requirement would only be slightly above the projected  
22 trended level in 2006. This somewhat higher amount is because O&M  
23 requirements are forecast to exceed Distribution's mitigation capabilities by a

1 greater extent. Forecasted O&M increases are largely driven by various reliability  
2 initiatives previously discussed in my testimony such as vegetation management  
3 lateral trimming and Model Feeder.

## 4 5 **SUMMARY AND CONCLUSION**

6 **Q. Please summarize your testimony.**

7 A. Distribution is responsible for the planning, engineering, construction, operations,  
8 maintenance, and restoration of FPL's distribution infrastructure. Distribution  
9 continues to improve its excellent delivery system reliability performance. FPL's  
10 customers benefit from low service unavailability (stated as the average amount  
11 of time a customer is without electricity per year). In fact, 2004 performance,  
12 which was more than 30% better than 1998, is the best in Florida, ranks among  
13 the industry's top performers, and is 50% better than the 2003 industry average.  
14 This performance has been achieved even while base rates, since 1998, have been  
reduced by 15%.

16  
17 Distribution has continued to search for and implement enhancements to customer  
18 service. The cumulative success of these initiatives has resulted in a reduction of  
19 about 55% in logged service quality complaints filed with the Commission since  
20 1998.

21  
22 This reliability and customer service performance has been delivered while  
23 maintaining a continual focus on safety. In fact, Distribution's current safety  
24 performance is the best on record. The OSHA rate has improved by 45% since

1 1998 and the number of injuries has declined by almost 40% during the same time  
2 period.

3

4 All of these operational improvements have been achieved while still effectively  
5 managing costs. Historical O&M increases have been contained to about 1% per  
6 year from 1998 through 2003 and are forecast to increase only modestly above  
7 this pace by 2006. As in the past, capital investment requirements are forecast to  
8 continue to increase at a measured pace, mainly to fund construction of the  
9 infrastructure necessary to serve ongoing customer growth and to continue  
10 delivering excellent reliability.

11

12 Distribution has delivered excellent balanced performance resulting in substantial  
13 benefits to customers. This has been achieved as a direct result of Distribution's  
14 management and employees committing to safely provide superior reliability and  
15 customer service at a reasonable cost. FPL's ability to continue the commitment  
16 to delivering this level of performance to our customers requires the increased  
17 future funding requested.

18 **Q. Does this conclude your direct testimony?**

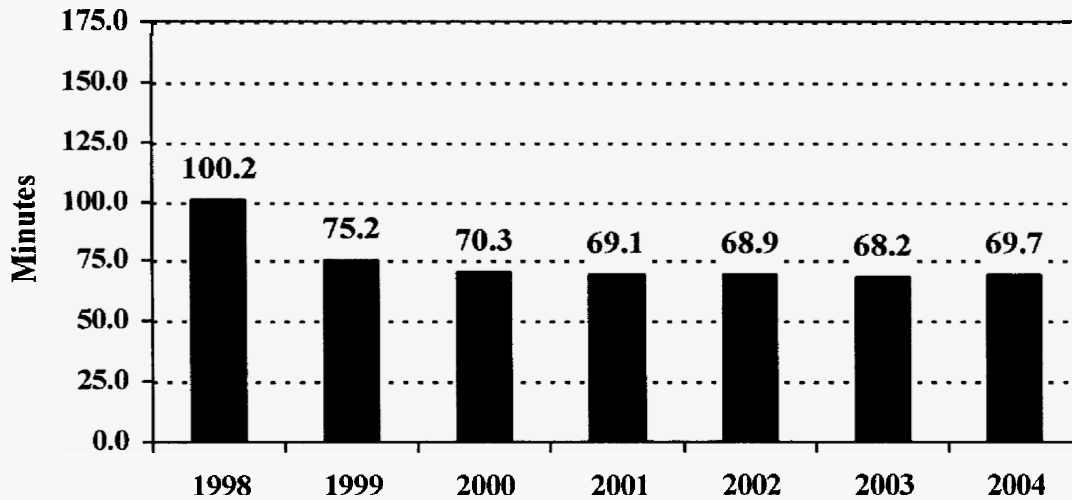
19 A. Yes.

## Reliability Program Initiatives

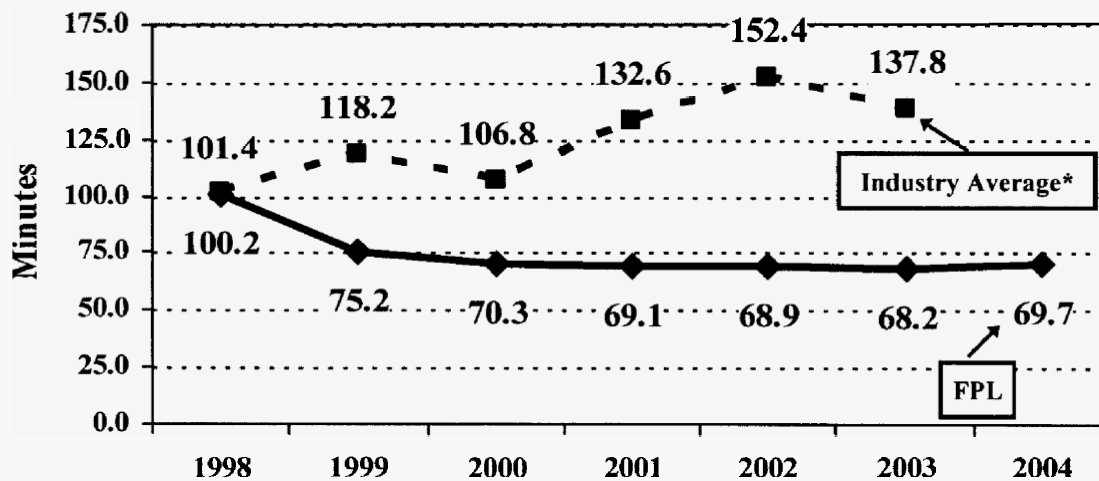
Initiative	Description
<b>Vegetation Management</b>	Integrated program designed to minimize tree and vine related interruptions.
<b>Feeder &amp; Lateral Cable Rehabilitation</b>	Replace all or a section of direct-buried cables.
<b>Automated Feeder Switching</b>	Install switches that automatically sectionalize lines to isolate faults and restore customers.
<b>Model Feeder</b>	Construct new, or retrofit existing, feeders to optimum configuration model standards to reduce customer outage exposure.
<b>Multiple Interruptions &amp; Outliers</b>	Identify and correct feeders, reclosers, laterals, and transformers experiencing the highest number of interruptions.
<b>Customer Impact</b>	Specific projects that focus on improvements for specifically targeted customers or geographic areas.
<b>Thermovision</b>	Infrared predictive diagnostic technology which detects signs of failures, or potential failures, in overhead facilities, coupled with visual inspections.
<b>Pad Mounted Transformers</b>	Inspect and correct any non-compliant conditions.
<b>Capacitor Banks</b>	Install, maintain, and control equipment for VAR management.
<b>Vaults</b>	Inspect and correct any non-compliant conditions in automatic throw-over systems and other vault equipment.
<b>Wall Mounted Switchgear</b>	Refurbish wall mounted switchgear in vaults which are now reaching end of life.
<b>Poles</b>	Inspect and, if necessary, replace creosote poles or brace and/or treat to extend life.
<b>Cathodic Protection</b>	Install new anodes in manholes and underground vaults to rehabilitate paper and lead and submarine cables.
<b>Switch Cabinets</b>	Remove live front switch cabinets which are now reaching end of life.

## Distribution Reliability

### Distribution SAIDI



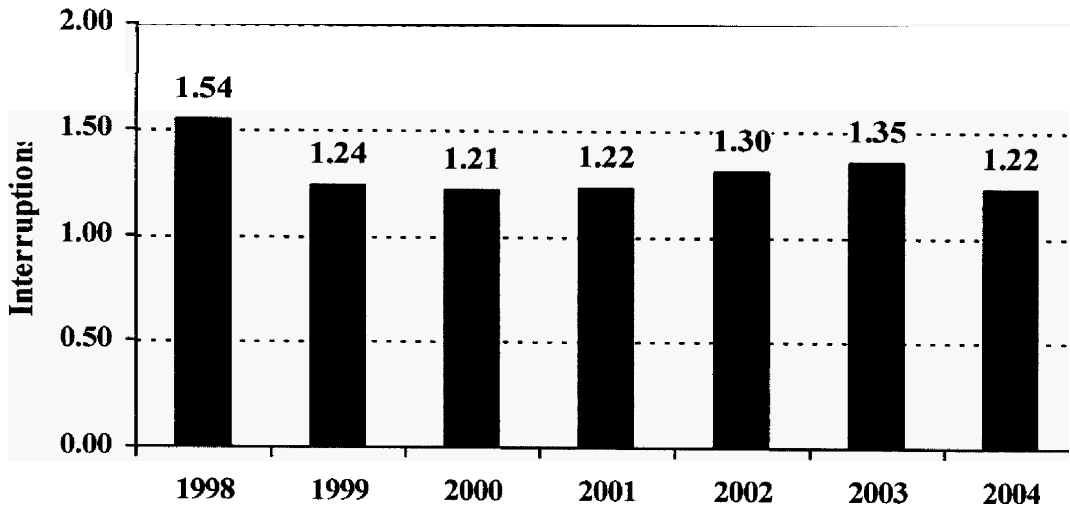
### FPL v. Industry Average Distribution SAIDI



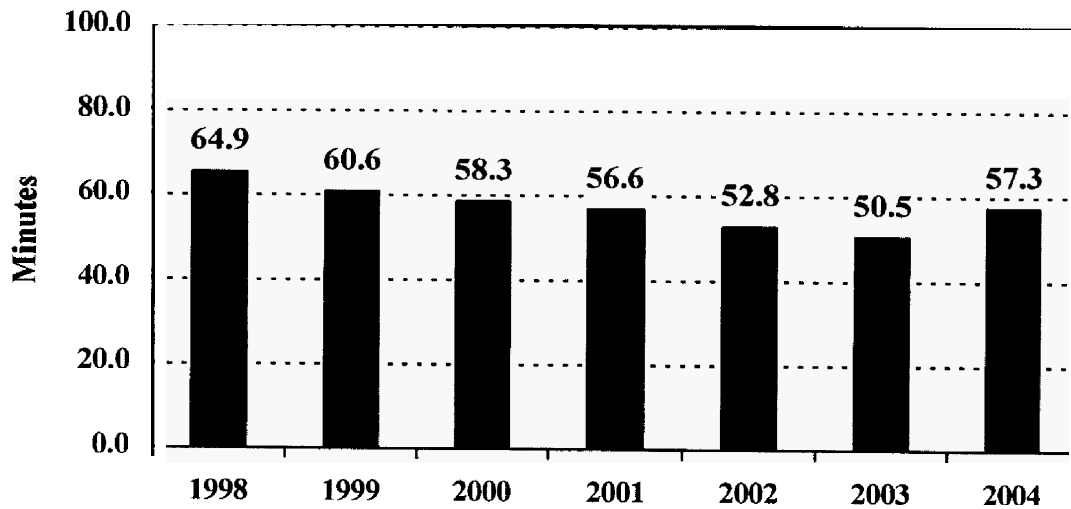
\* Industry Average data from EEI (2004 not available)

## Distribution Reliability

### Distribution SAIFI

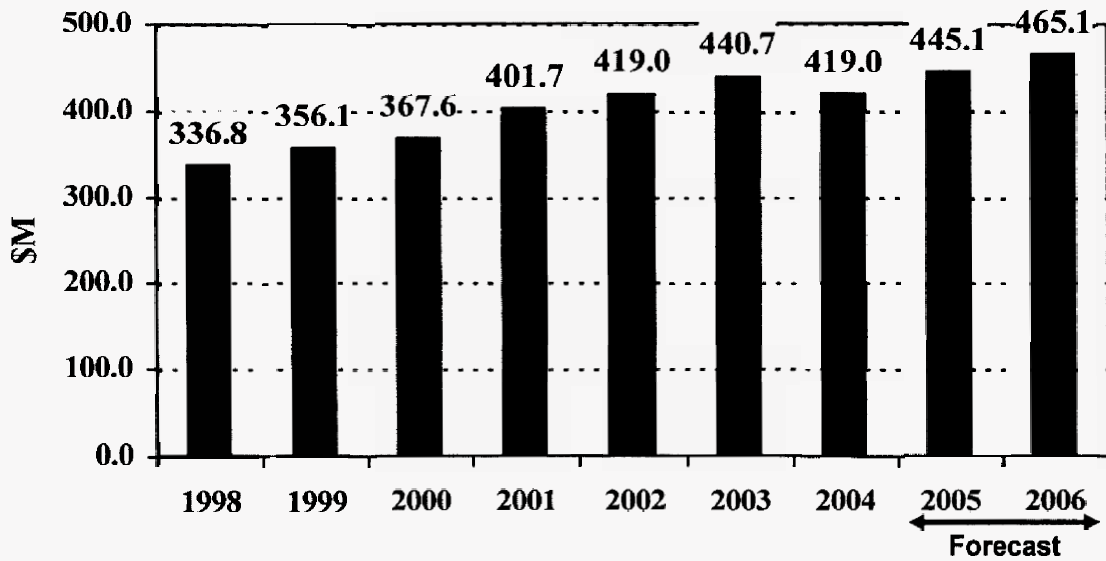


### Distribution CAIDI



## Distribution Capital Expenditures and O&M

### Distribution Capital Expenditures



### Distribution O&M

