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**Florida Power**  
A Progress Energy Company

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JAMES A. MCGEE  
ASSOCIATE GENERAL COUNSEL

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RECORDS AND REPORTING  
February 28, 2001

Ms. Blanca S. Bayó, Director  
Division of Records and Reporting  
Florida Public Service Commission  
2540 Shumard Oak Boulevard  
Tallahassee, Florida 32399-0850

Re: Annual Distribution Service Reliability Report for 2000.

Dear Ms. Bayó:

Enclosed for filing pursuant to Commission Rule 25-6.0455, F.A.C., are an original and fifteen copies of Florida Power Corporation's Annual Distribution Service Reliability Report for 2000.

Please acknowledge your receipt of the above filing on the enclosed copy of this letter and return to the undersigned. Also enclosed is a 3.5 inch diskette containing the above-referenced document in Word format. Thank you for your assistance in this matter.

Very truly yours,

James A. McGee

- APP \_\_\_\_\_
- CAF \_\_\_\_\_
- CMP \_\_\_\_\_
- COM \_\_\_\_\_
- CTR \_\_\_\_\_
- ECR \_\_\_\_\_
- LEG   T
- OPC \_\_\_\_\_
- PAI \_\_\_\_\_
- RGO \_\_\_\_\_
- SEC   T
- SER \_\_\_\_\_
- OTH \_\_\_\_\_

JAM/scc  
Enclosure

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FPSC-BUREAU OF RECORDS

DOCUMENT NUMBER - DATE

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FPSC-RECORDS/REPORTING

ORIGINAL

ANNUAL DISTRIBUTION RELIABILITY REPORT 2000  
(year)

Florida Power Corporation  
(Utility)

**SAIDI = System Average Interruption Duration Index**

$$\frac{\text{Sum of All Customer Minutes Interrupted (CMI)}}{\text{Total number of Customers Served (C)}} = \frac{140,367,859}{1,395,454} = \frac{100.6}{(\text{SAIDI})}$$

**CAIDI = Customer Average Interruption Duration Index**

$$\frac{\text{Sum of Customer Minutes Interrupted (CMI)}}{\text{Total number of Customer Interruptions (CI)}} = \frac{140,367,859}{1,861,239} = \frac{75.4}{(\text{CAIDI})}$$

**SAIFI = System average interruption frequency index.**

$$\frac{\text{Total Number of Customer Interruptions (CI)}}{\text{Total Number of Customers Served (C)}} = \frac{1,861,239}{1,395,454} = \frac{1.33}{(\text{SAIFI})}$$

**MAIFI<sub>c</sub> = Momentary average interruption event**

$$\frac{\text{Sum of all Customer Momentary Interruption Events (CME)}}{\text{Total Number of Customers Served (C)}} = \frac{23,042,289}{1,395,454} = \frac{16.5}{(\text{MAIFI}_c)}$$

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As required by Docket No. 920229-EI, Rule 25-6.0455, interruptions by cause are listed below.

CAUSE	OVERHEAD	UNDERGROUND	UNDETERMINED	TOTAL
Lightning	3,359	164		3,523
Other Weather	3,857	209		4,066
Vegetation	5,808	118		5,926
Animal	5,089	449	61	5,599
Vehicle	400	29	3	432
Dig-in		756		756
Unknown	2,718	333	1,757	4,808
Other *				
Transformer			2,981	2,981
UG primary cable		3,174	24	3,198
UG sec/service		2,372		2,372
All Remaining Outages				5,325
Total	21,231	7,604	10,151	38,986

\* Next 3 highest causes

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$$\frac{\text{L Bar = Minutes of Interruption}}{\text{Total Number of Outages}} = \frac{4,602.738}{38,986} = \underline{118}$$

### 3% Worst Performing Feeders

FEEDER	SUBSTATION	ADDRESS	RES CUST	COMM CUST	IND CUST	TOTAL CUST	N	L-Bar
W0009	Winter Park	N/A	1941	217	0	2158	6	34
K303	Windermere	N/A	1617	62	0	1679	5	31
W0003	Winter Park	N/A	693	248	3	944	4	102
A204	Zuber	N/A	2794	390	6	3190	4	89
W0298	Alafaya	N/A	2094	28	0	2122	4	82
N69	Monticello	N/A	1107	217	5	1329	4	64
N58	Apalachicola	N/A	618	231	16	865	4	54
X215	Pasadena	N/A	669	278	1	948	4	54
C341	Zephyrhills N	N/A	1388	242	0	1630	4	53
X16	Bayboro	N/A	2241	144	5	2390	4	51
J145	Cross Bayou	N/A	615	235	19	869	4	35
W0158	Lake Aloma	N/A	2131	72	0	2203	4	33
J406	Largo	N/A	1548	263	0	1811	4	20
C653	BayView	N/A	2236	86	0	2322	4	16
A35	Reddick	N/A	631	160	6	797	3	261
A143	Alachua	N/A	120	26	0	146	3	169
A64	Lake Weir	N/A	1759	178	0	1937	3	167
A263	Tangerine	N/A	2059	232	4	2295	3	139
W0105	Canoe Creek	N/A	495	101	0	596	3	129
A38	Martin	N/A	1745	255	0	2000	3	91
K51	Hunters Creek	N/A	3804	226	0	4030	3	86
A251	Circle Square	N/A	1273	103	0	1376	3	75
C5406	Brooker Creek	N/A	3550	171	0	3721	3	69
A196	Archer	N/A	582	149	1	732	3	61
M426	Lake Emma	N/A	1595	213	0	1808	3	60
X36	Sixteenth St.	N/A	598	135	0	733	3	59
W0974	Rio Pinar	N/A	2417	133	0	2550	3	52
A144	Alachua	N/A	491	86	3	580	3	47
C12	Clearwater	N/A	1338	315	0	1653	3	44
X256	Pilsbury	N/A	2843	164	0	3007	3	40
A162	Crystal River N	N/A	153	149	0	302	3	40
C655	BayView	N/A	2990	341	2	3333	3	40
X18	Bayboro	N/A	999	202	4	1205	3	25

**Florida Power Corporation  
Additional FPSC Reliability Data**

**1/1/00 - 12/31/00**

MI - Percentage of Customers who experienced more than 5 outages

MI = 1.89%