

ORIGINAL



**Florida Power**

A Progress Energy Company

ASSOCIATE GENERAL COUNSEL

JAMES A. MCGEE

February 26, 2002

Ms. Blanca S. Bayó, Director  
Division of the Commission Clerk  
and Administrative Services  
Florida Public Service Commission  
2540 Shumard Oak Boulevard  
Tallahassee, Florida 32399-0850

RECEIVED FPSC  
02 FEB 26 PM 12:09  
COMMISSION  
CLERK

Re: Annual Distribution Service Reliability Report

Dear Ms. Bayó:

Enclosed for filing pursuant to Rule 25-6.0455 are an original and fifteen copies of the subject report for 2001.

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

JAM/scc  
Enclosure

AUS \_\_\_\_\_  
CAF \_\_\_\_\_  
CMP \_\_\_\_\_  
COM \_\_\_\_\_  
CTR \_\_\_\_\_  
ECR \_\_\_\_\_  
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FPSC-BUREAU OF RECORDS

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# ANNUAL DISTRIBUTION SERVICE RELIABILITY REPORT for 2001

## Florida Power Corporation (Utility)

**SAIDI = System Average Interruption Duration Index**

$$= \frac{\text{Sum of All Customer Minutes Interrupted (CMI)}}{\text{Total number of Customers Served (C)}} = \frac{128,457,951}{1,434,824} = 89.7 \text{ (SAIDI)}$$

**CAIDI = Customer Average Interruption Duration Index**

$$= \frac{\text{Sum of Customer Minutes Interrupted (CMI)}}{\text{Total number of Customer Interruptions (CI)}} = \frac{128,457,951}{1,870,787} = 68.7 \text{ (CAIDI)}$$

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

$$\frac{\text{Total Number of Customer Interruptions (CI)}}{\text{Total Number of Customers Served (C)}} = \frac{1,870,787}{1,434,824} = 1.30 \text{ (SAIFI)}$$

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

$$\frac{\text{Sum of all Customer Momentary Interruption Events (CME)}}{\text{Total Number of Customers Served (C)}} = \frac{22,526,736}{1,434,824} = 15.7 \text{ (MAIFI<sub>e</sub>)}$$

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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	4,119	366	0	4,485
Other Weather	2,894	240	0	3,134
Vegetation	5,713	215	4	5,932
Animal	4,986	586	11	5,583
Vehicle	410	59	3	472
Dig-in	105	679	2	786
Unknown	4,197	568	179	4,944
Other *				
Transformer	2,014	412	616	3,042
UG primary cable	405	2,374	4	2,783
UG sec/service	359	2,377	3	2,739
All Remaining Outages	3,496	1,001	542	5,039
Total	28,398	8,877	1,364	38,939

\* Next 3 highest causes

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$$\text{L Bar} = \frac{\text{Minutes of Interruption}}{\text{Total Number of Outages}} = \frac{4,283,290}{38,939} = 110$$

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### 3% Worst Performing Feeders

Feeder	Substation	Res Cust	Comm Cust	Ind Cust	S/L Cust	Govt Cust	# N	LBAR
W1108	Deland East	2188	176	1		16	7	45
K857	Shingle Creek	1763	37		1	11	7	44
A216	Twin County Ran	1160	62				5	87
K2246	Hemple	1197	102		9	15	5	49
A321	Weirsdale	1011	105	2		8	4	283
A51	McIntosh	1232	195	2		33	4	126
W0174	Oviedo	1755	216			16	4	116
A34	Reddick	1330	218			9	4	100
W0320	Econ	3448	196		4	10	4	75
K781	Islesworth	1173	254		3	18	4	72
W0214	Narcoossee	1470	55			9	4	63
M412	Lockhart	1866	164	5	3	26	4	59
K58	Lake Wales	1300	299		1	45	4	53
A15	High Springs	1406	364	5		41	4	40
W1103	Deland East	2052	107			11	4	34
C208	Port Richey Wes	2517	553	1	1	41	4	28
J146	Cross Bayou	1187	623	72	1	8	4	27
J555	Walsingham	2737	268		1	13	4	27
K931	Sand Lake		1			2	3	245
W0630	Holopaw	633	57			1	3	212
A35	Reddick	631	160	6		11	3	192
K1885	Lake of the Hil	657	124	1		3	3	116
N4	Madison	371	36	4		13	3	75
W0392	Pinecastle	1796	99		1	16	3	63
W1106	Deland East	1149	129			11	3	61
W1012	UCF	3460	181			15	3	57
C156	Denham	1731	242		1	41	3	50
J143	Cross Bayou	742	56	5	1	5	3	45
W0924	Winter Park Eas	2091	101			46	3	44
M1749	North Longwood	1795	92		1	27	3	43
J690	Ulmerton West	1993	135	1	2	20	3	42
N64	Waukeelah	540	80	1	1	8	3	39
K909	Vineland	1698	81	3		15	3	35

**Florida Power Corporation**

**Summary FPSC Reliability Data**

**1/1/01 through 12/31/01**

**SAIDI** - System Average Interruption Duration Index

***SAIDI = 89.7***

**CAIDI** - Customer Average Interruption Duration Index

***CAIDI = 68.7***

**SAIFI** - System Average Interruption Frequency Index

***SAIFI = 1.30***

**MAIFI<sub>E</sub>** - Momentary Average Interruption Frequency Index by Event

***MAIFI<sub>E</sub> = 15.7***

**CEMI5** - Percentage of customers who experience more than five outages

***CEMI = 1.81%***