



Public Service Commission

-M-E-M-O-R-A-N-D-U-M-

DATE: March 5, 2003
TO: Blanca Bayo, Director, Division of Commission Clerk and Administrative Services
FROM: Tim Devlin, Director, Division of Economic Regulation *TD*
RE: Annual Distribution Service Reliability Reports

Please add the following Distribution Reliability Reports for calendar year 2002 to Case Management, Docket Number 030000. The data in these reports are comparable with those in Document Number 02793-02 in Docket Number 020000, which contained the reports for 2001. If you have any questions, please let me know. Thank you.

Utility	Data Year	Year Filed (Docket Year)	Document Number
PEF	2002	2003	02034
FPL	2002	2003	None
FPUC	2002	2003	None
GULF	2002	2003	None
TECO	2002	2003	02079

TD/SM:kb

- AUS _____
- CAF _____
- CMP _____
- COM _____
- CTR _____
- ECR _____
- 3CL _____
- DPC _____
- MMS _____
- SEC **I** _____
- DTH _____

DOCUMENT NUMBER-DATE

02197 MAR-5 8

FPSC-COMMISSION CLERK



March 3, 2003

Mr. Joseph D. Jenkins, Assistant Director
Division of Economic Regulation
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850

Dear Mr. Jenkins,

Enclosed are the original and five (5) copies of Florida Power & Light Company's (FPL) Annual Distribution Reliability Report for calendar year 2002. We are making this filing pursuant to Rule 25-6.0455 and consistent with our previous agreements.

If you have any questions, please do not hesitate to call me at (850) 521-3900.

Sincerely,

A handwritten signature in black ink, appearing to read 'Bill Feaster', with a horizontal line extending to the right.

Bill Feaster
Manager, Regulatory Affairs

WHF/lms

cc: Blanca Bayo

ANNUAL DISTRIBUTION RELIABILITY REPORT 2002

Attachment 1

Florida Power & Light

SAIDI = System Average Interruption Duration Index

$$= \frac{\text{Sum of All Customer Minutes Interrupted (CMI)}}{\text{Total number of Customers Served (C)}} = \frac{273,363,678}{3,965,537} = 68.9$$

CAIDI = Customer Average Interruption Duration Index

$$= \frac{\text{Sum of All Customer Minutes Interrupted (CMI)}}{\text{Total number of Customers Interruptions (CI)}} = \frac{273,363,678}{5,174,057} = 52.8$$

SAIFI = System Average Interruption Frequency Index

$$= \frac{\text{Total number of Customers Interruptions (CI)}}{\text{Total number of Customers Served (C)}} = \frac{5,174,057}{3,965,537} = 1.30$$

MAIFle = Momentary Average Interruption Event

$$= \frac{\text{Sum of All Customer Momentary Interruption Events (CME)}}{\text{Total number of Customers Served (C)}} = \frac{40,937,368}{3,965,537} = 10.3$$

**L BAR = Minutes of Interruption
Total Number of Outages**

$$= \frac{14,140,029}{94,559} = 150$$

**CEMIS = # Cust > 5 X 100%
Customer Served (C)**

$$= \frac{117,387 \times 100\%}{3,965,537} = 3\%$$

Service Reliability Indices Data					
Utility Name	FPL	Year 2002			
District or Service Area	Customer Served (C)	CMI	CI	CME	# Cust >5
Brevard	249,164	17,161,531	356,349	3,871,525	14,062
Central Florida	221,094	18,298,009	339,559	2,422,656	5,519
Gulf Coast	334,800	29,598,556	527,128	3,539,656	21,284
Manasota	325,937	22,894,531	351,049	2,524,265	5,790
North Florida	111,015	9,958,850	162,773	755,496	5,476
Toledo Blade	138,254	10,754,597	215,944	1,680,304	4,677
Treasure Coast	216,758	22,153,038	423,302	3,642,052	16,723
Boca Raton	313,178	21,276,092	438,104	2,507,076	7,890
Central	224,200	13,408,197	273,404	1,760,349	6,524
Gulfstream	295,208	17,025,529	342,889	2,517,198	3,213
North Dade	210,312	12,743,247	225,839	1,992,513	2,928
Pompano	289,747	12,786,286	275,004	2,175,399	3,010
South Dade	266,143	16,796,392	303,779	2,846,765	7,672
West Palm	313,688	18,797,085	343,098	3,918,306	4,898
Wingate	248,037	16,702,263	358,855	2,779,003	5,999
West Dade	208,001	13,009,475	236,981	2,004,805	1,722
System Averages	3,965,537	273,363,678	5,174,057	40,937,368	117,387

Service Reliability Indices					
Utility Name	FPL	Year	2002		
District or					
Service Area	SAIDI	CAIDI	SAIFI	MAIFle	CEMI5
(a)	(b)	(c)	(d)	(e)	(f)
Brevard	68.9	48.2	1.43	15.5	5.6%
Central Florida	82.8	53.9	1.54	11.0	2.5%
Gulf Coast	88.4	56.2	1.57	10.6	6.4%
Manasota	70.2	65.2	1.08	7.7	1.8%
North Florida	89.7	61.2	1.47	6.8	4.9%
Toledo Blade	77.8	49.8	1.56	12.2	3.4%
Treasure Coast	102.2	52.3	1.95	16.8	7.7%
Boca Raton	67.9	48.6	1.40	8.0	2.5%
Central	59.8	49.0	1.22	7.9	2.9%
Gulfstream	57.7	49.7	1.16	8.5	1.1%
North Dade	60.6	56.4	1.07	9.5	1.4%
Pompano	44.1	46.5	0.95	7.5	1.0%
South Dade	63.1	55.3	1.14	10.7	2.9%
West Palm	59.9	54.8	1.09	12.5	1.6%
Wingate	67.3	46.5	1.45	11.2	2.4%
West Dade	62.5	54.9	1.14	9.6	0.8%
System Averages	68.9	52.8	1.30	10.3	3.0%

Primary Causes of Outage Events			
Utility Name	FPL	Year	2002
	Number	Average	Average
	of Outage	Duration	Restoration
Cause	Events(N)	(L-Bar)	Time
(a)	(b)	(c)	(d)
Lightning	4625	227	60.6
Other Weather	8281	108	68.8
Vegetation	16906	149	68.0
Animal	10490	74	54.5
Vehicle	1645	191	41.1
Dig-in	807	225	54.3
Unknown	28374	166	51.8
Other*			
1. Other	21120	156	41.2
2. Corrosion	1667	182	65.0
3. Saltspray	644	147	56.5
System Total	94559	150	52.8

				3 Percent Fees	
Utility name	FPL		Year	2002	
Primary Circuit Id. No. or Name (a)	Substation Origin (b)	Location -- (c)	Number		
			Residential (d)	Commercial (e)	
801941	DEAUVILLE	6873 Harding Ave, Miami Beach	1376	211	
504965	GOLDEN GATE	4002 15 Ave, Naples	3440	153	
806937	BIRD	6125 SW 40 St, Dade Co	981	163	
208862	WINDOVER	Brevard County	2664	481	
408863	ABERDEEN	7520 Jog Rd, Boca Raton	3117	170	
201032	EAU GALLIE	1860 Guava Ave, Melbourne	2242	198	
809662	COURT	12590 SW 136 St, S Dade Co	1489	570	
404738	HILLSBORO	842 SW 19 St, Boca Raton	748	84	
401633	OKEECHOBEE	112 SE 4th Ave, Okeechobee	2100	311	
400663	WABASSO	8250 66th Ave., Wabasso	3546	608	
701433	PORT SUB	SE 14 Ave & Eller Dr, Port Everglades	344	348	
506663	LIVINGSTON	1 mi N/O Golden Gate Pkwy, Livingston Rd	2900	357	
408763	SABAL	350 NW Enterprise Dr,	1330	294	
809668	COURT	12592 SW 136 St, S Dade Co	2059	350	
800231	MIAMI BEACH	East End MaCarthur Cswy, Miami Beach	2629	309	
700332	PINEHURST	2101 SW 9 Ave, Ft Lauderdale	398	351	
503964	ESTERO	4750 Broadway West, Estero	3537	218	
408035	CALDWELL	1st Ave & NW 24 St, Boca Raton	1078	433	
101033	HOLLY HILL	403 Walker St, Holly Hill	804	154	
208164	HIELD	1725 Substation Rd., Malabar	2141	123	
104834	TAYLOR	5055 Spruce Creek Rd, Port Orange	2536	137	
700463	OAKLAND PARK	NE 38 St & 5 Ave, Ft Lauderdale	1585	594	
801735	62ND AVE	1680 SW 62 Ave, Miami	906	55	
805732	GALLOWAY	8850 SW 68 St, S Dade Co	660	57	
806436	HAINLIN	SW 147 Ave & 216 St, S Dade Co	279	176	
706964	CHAPEL	6610 SW 196 Ave, Pembroke Pines	2439	178	
402834	LANTANA	1301 Hypoluxo Rd, Lantana	2397	166	
405932	BUTTS	21400 Powerline Rd, Boca Raton	832	91	
404239	BOCA TEECA	601 W. Clintmoore Rd, Boca Raton	2075	94	
702731	MCARTHUR	2000 NW 51 Ave, Lauderhill	1408	154	
400832	PAHOKEE	660 S. State market Rd, Pahokee	276	95	
407163	CRANE	4000 SW Sandy Tr, Martin County	3616	238	
701833	ROCK ISLAND	2900 NW 31 Ave, Ft Lauderdale	1532	592	
808436	SNAKE CREEK	3875 NW 203 St, N Dade Co	2231	52	
502561	PALMA SOLA	7100 1st Ave, Bradenton	2606	143	
503565	ALLIGATOR	1.5 Mi E/O SR 951 on Davis Blvd	5419	327	
700636	VERENA	1401 NE 13 Ave, Ft Lauderdale	1980	129	
701638	PLANTATION	4900 W Broward blvd, Ft Lauderdale	1611	146	
800835	RAILWAY	523 NW 11 St, Miami	957	203	
407663	LOXAHATCHEE	15879 Long Valley LA, Loxahatchee	2923	350	
701432	PORT SUB	SE 14 Ave & Eller Dr, Port Everglades	0	12	
703432	RESERVATION	5400 Stirling Rd & N 64 Ave, Hollywood	1852	63	
805235	NATOMA	2475 SW 16 Ct, Miami	899	61	
704566	MALLARD	8300 Block Southgate Blvd, Margate	6313	222	
503562	ALLIGATOR	1.5 Mi E/O SR 951 on Davis Blvd	3549	629	

100138	DAYTONA BEACH	132 N Segrave Ave., Daytona Beach	360	116
704061	MOTOROLA	7641 W Sunrise Blvd, Sunrise	2135	271
802436	SOUTH MIAMI	5801 SW 68 St, Miami	793	185
402032	CLEWISTON	USSC Main Canal Rd, Clewiston	1229	163
504961	GOLDEN GATE	4001 15 Ave, Naples	2482	251
700234	HOLLYWOOD	709 N 21 Ave, Hollywood	1497	309
408661	HOMELAND	1113 Windsor Lake Rd, West Palm Beach	2387	422
806337	ULETA	16150 Miami Gardens Dr, N Miami Beach	1163	240
406161	TURNPIKE	2300 Bayshore Blvd, Port St Lucie	2812	157
705764	TRACE	17800n Saddle Club Rd, Ft Lauderdale	2751	190
701536	DANIA	SE 5 Ave & 3 St, Dania	3022	172
503564	ALLIGATOR	1.5 Mi E/O SR 951 on Davis Blvd	3581	304
800851	RAILWAY	524 NW 11 St, Miami	294	100
804133	GARDEN	3802 NW 179 St, N Dade Co	1364	119
810561	JASMINE	8805 SW Krome Ave, S Dade Co	3775	171
706266	VALENCIA	13000 SW 20 St, Davie	2024	143
502163	BONITA SPRINGS	9491 Bonita Beach Rd, Bonita Springs	2636	457
401634	OKEECHOBEE	112 SE 4th Ave, Okeechobee	1367	360
503762	HARBOR	22505 Hancock Ave, Punta Gorda	2107	316
207362	WYOMING	2525 Quarry Ave	1768	74
804131	GARDEN	3801 NW 179 St, N Dade Co	1142	133
400737	BOCA RATON	310 W. Palmetto Park Rd, Boca Raton	2126	103
800433	COCONUT GROVE	2998 SW 37th Ave, Miami	1492	270
704665	SPRINGTREE	NW 88 Ave & 44 St, Lauderhill	3439	232
706166	HOLLYBROOK	10501 Washington St, Pembroke Pines	878	275
105831	ELKTON	4525 St. Ambrose Church Rd	619	123
407561	GLENDALE	9597 20th St, Vero Beach	2448	357
201632	PALM BAY	2197 NE Franklin DR, Palm Bay	2057	89
809663	COURT	12591 SW 136 St, S Dade Co	2656	369
301462	YULEE	Jacksonville	1489	195
705562	SOUTHSIDE	200 SW 7 St, Ft Lauderdale	1953	112
501764	IONA	1750 San Carlos Blvd, Ft Myers	6129	443
702740	MCARTHUR	2001 NW 51 Ave, Lauderhill	1986	70
406863	KIMBERLY	11000 W Yamato Rd, W Boca Raton	2016	53
500663	CORTEZ	4402 44 Ave West, Bradenton	4768	324
201134	PATRICK	Patrick Air Force Base	1087	26

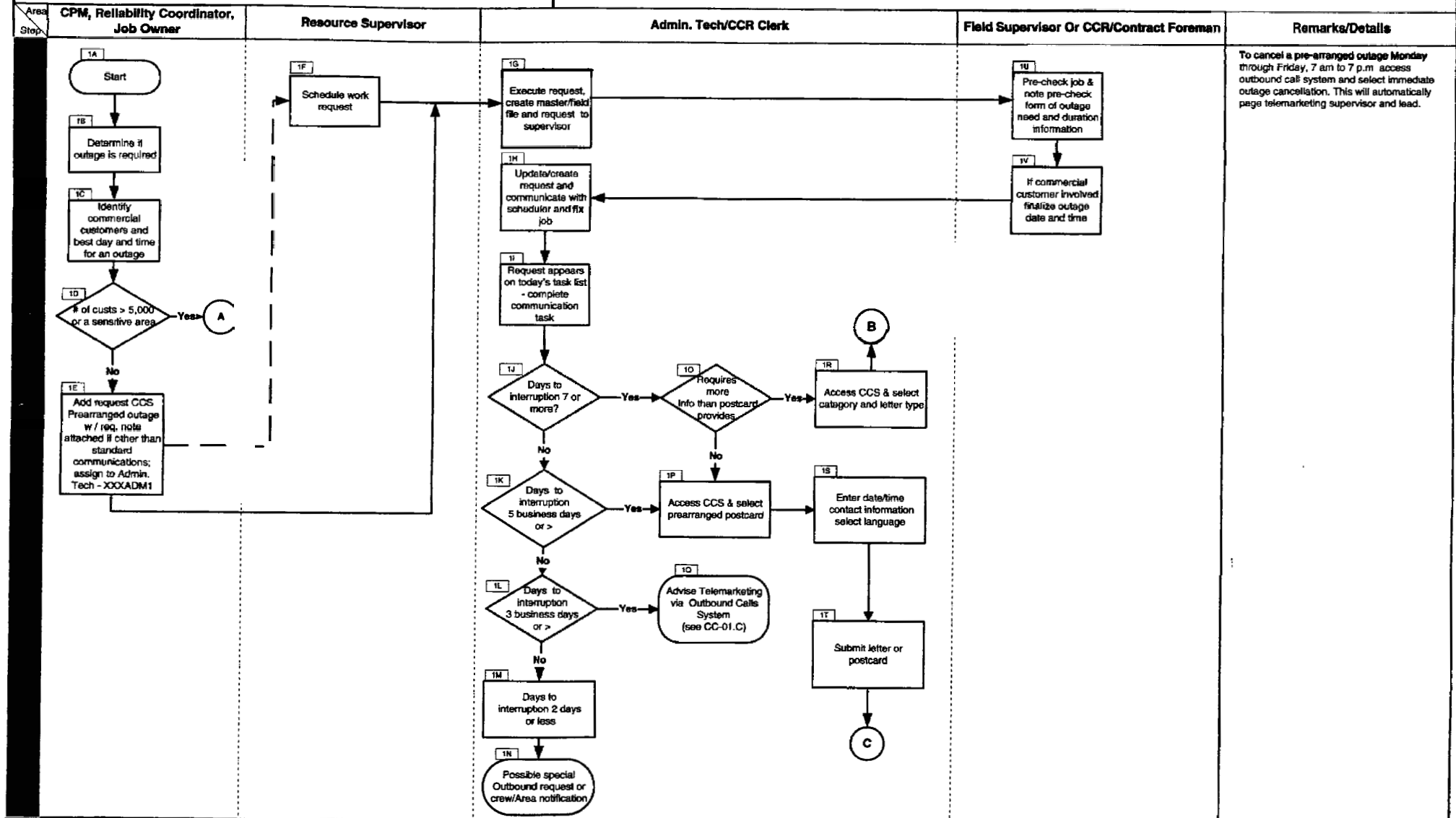
Order List

Number of Customers			Outage Events(N) (i)	Average Duration "L-Bar" (j)	CAIDI (k)	Listed Last Year? (l)	No. of Years in the Last 5 (m)	Corrective Action Completion Date (n)
Industrial (f)	Other (g)	Total (h)						
0	0	1587	9	9	9.1	No	0	6/30/03
60	0	3653	8	227	44.1	No	0	6/1/03
1	0	1145	8	95	15.4	No	0	6/1/03
16	0	3161	8	40	13.6	No	0	6/1/03
20	0	3307	8	39	23.2	No	0	6/30/03
4	0	2444	8	31	5.8	No	1	6/1/03
9	0	2068	7	111	51.8	No	0	6/1/03
15	0	847	7	85	34.2	No	0	6/30/03
8	0	2419	7	83	37.6	No	0	6/30/03
15	0	4169	7	66	23.2	No	0	6/1/03
3	0	695	6	197	36.4	No	0	6/1/03
49	0	3306	6	166	32.2	No	0	6/30/03
13	0	1637	6	105	33.6	No	0	6/1/03
4	0	2413	6	101	34	No	0	6/30/03
5	0	2943	6	95	31.3	No	1	6/1/03
6	0	755	6	91	24.6	No	1	6/30/03
15	0	3770	6	75	47.3	No	0	1/2/02
7	0	1518	6	48	13.3	No	0	6/1/03
2	0	960	6	44	5.7	No	0	2/1/03
8	0	2272	6	14	13	No	0	6/30/03
16	0	2689	5	376	80.8	No	0	6/1/03
6	0	2185	5	184	23.4	No	0	6/30/03
2	0	963	5	158	77.2	No	1	5/3/02
5	0	722	5	151	48.8	Yes	2	6/1/03
21	0	476	5	148	38.5	Yes	1	11/1/02
14	0	2631	5	137	38.3	Yes	1	6/1/03
2	0	2565	5	136	22.9	No	0	6/30/03
5	0	928	5	131	16.1	No	0	6/30/03
5	0	2174	5	112	30.9	Yes	1	6/1/03
4	0	1566	5	109	22	No	0	6/1/03
29	0	400	5	107	62.2	No	0	6/30/03
6	0	3860	5	104	23.6	Yes	3	6/1/03
5	0	2129	5	100	14.2	No	0	6/1/03
0	0	2283	5	93	35.7	Yes	2	6/1/03
36	0	2785	5	78	59.3	No	0	6/1/03
49	0	5795	5	75	18.6	No	0	6/1/03
5	0	2114	5	60	45.1	No	0	6/1/03
5	0	1762	5	59	26	No	0	6/30/03
0	0	1160	5	53	28.4	No	0	6/30/03
5	0	3278	5	46	19.4	No	0	6/30/03
1	0	13	5	42	25.5	No	0	6/30/03
2	0	1917	5	41	23.4	No	0	6/30/03
3	0	963	5	35	23.7	No	1	6/30/03
4	0	6539	5	32	18.4	No	0	6/1/03
19	0	4197	5	24	16.7	No	0	6/30/03

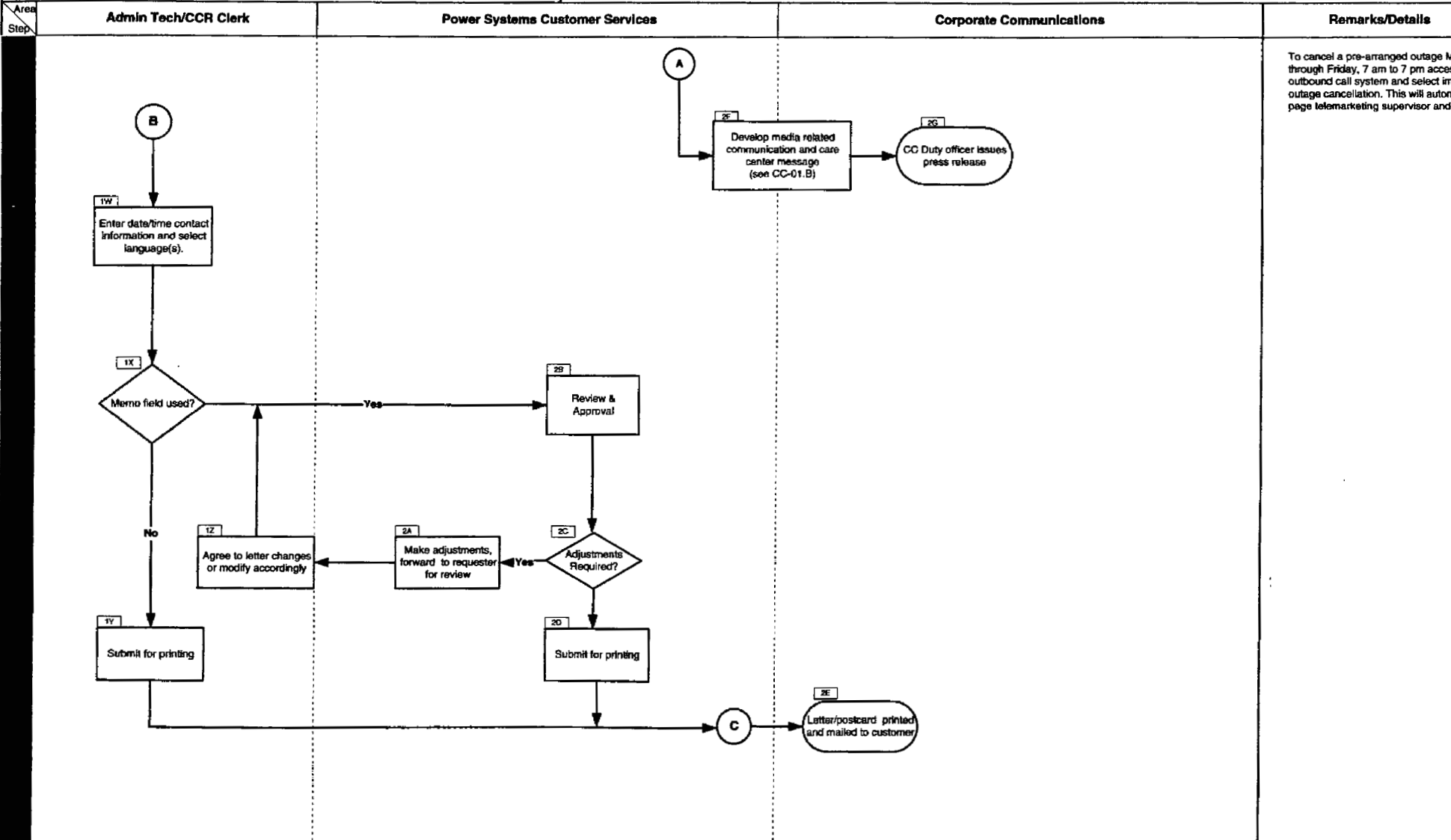
3	0	479	5	17	10.4	No	1	6/1/03
3	0	2409	4	616	38.6	No	0	6/30/03
1	0	979	4	304	42.2	No	2	6/30/03
16	0	1408	4	179	64.8	No	0	10/23/02
26	0	2759	4	178	50.5	No	2	6/30/03
3	0	1809	4	178	37.4	No	1	6/1/03
23	0	2832	4	171	31.6	Yes	1	6/30/03
0	0	1403	4	168	31.4	No	0	6/1/01
0	0	2969	4	162	23.6	No	0	6/1/03
4	0	2945	4	162	40.4	No	0	6/1/03
2	0	3196	4	159	38.3	No	1	6/1/03
35	0	3920	4	147	50.9	No	0	3/15/02
1	0	395	4	141	59.7	No	0	6/1/03
0	0	1483	4	141	40.5	No	1	6/30/03
5	0	3951	4	135	18.7	No	1	6/1/03
8	0	2175	4	128	53.4	No	0	6/30/03
30	0	3123	4	127	27.7	No	0	3/22/02
2	0	1729	4	124	29.1	No	0	3/1/02
3	0	2426	4	107	29.7	No	1	2/1/03
2	0	1844	4	105	38.8	No	0	TBD
2	0	1277	4	101	23.5	No	1	6/1/03
10	0	2239	4	96	22	No	1	6/1/03
5	0	1767	4	94	29.5	No	1	6/30/03
0	0	3671	4	92	24.6	No	0	6/30/03
0	0	1153	4	86	34.8	No	0	2/7/03
15	0	757	4	85	29.4	No	1	6/30/03
14	0	2819	4	85	13.7	No	1	2/28/02
1	0	2147	4	82	28	No	0	10/10/02
3	0	3028	4	81	30.9	No	0	6/30/03
13	0	1697	4	79	28.1	No	1	12/30/02
13	0	2078	4	78	47.6	No	0	6/1/03
10	0	6582	4	75	32.3	No	0	8/7/02
3	0	2059	4	75	35	No	0	1/30/03
5	0	2074	4	68	38.3	No	0	6/30/03
11	0	5103	4	68	49.2	No	0	6/1/03
20	0	1133	4	31	5.8	Yes	1	6/30/03

PROCESS DESCRIPTION: CCS - Letter and Postcard Process

PROCESS OBJECTIVE: Provide a clear understanding of purpose and necessity of customer communications appropriate methods/tools in order to achieve customer satisfaction through pre-notification of planned outages



PROCESS DESCRIPTION: CCS - Letter and Postcard Process **PROCESS OBJECTIVE:** Provide a clear understanding of purpose and necessity of customer communications appropriate methods/tools in order to achieve customer satisfaction through pre-notification of planned outages



Issued for use Rev 0:	Rev 1: 10/25/02	Rev 2:	Rev 3:	Rev 4:	Rev 5:	Rev 6:	Rev 7:	Rev 8:	Rev 9:	Rev 10:
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February 24, 2003

Joe Jenkins
Division of Economic Regulation
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0868

RECEIVED
FLORIDA PUBLIC SERVICE
COMMISSION
03 FEB 27 AM 9:40
DIVISION OF
ECONOMIC REGULATION

Dear Mr. Jenkins:

Attached is the 2002 Annual Distribution Service Reliability Report for Florida Public Utilities Company. This report is submitted in accordance with Section 25-6.0455 of the Florida Public Service Commission Rules and Regulations.

This report combines the information from our Northwest Florida (Marianna) and Northeast Florida (Fernandina Beach) Divisions. Should you have any questions concerning this information, please contact me by phone at (850)526-6811 or by email at mcutshaw@fpuc.com.

Sincerely,

A handwritten signature in black ink that reads "P. Mark Cutshaw".

P. Mark Cutshaw
Director, Northwest Florida

cc: Chuck Stein
Mario Lacaci
Don Myers
John Mandrick



Primary Causes of Outage Events

Utility Name Florida Public Utilities Co. Year 2002

Cause (a)	Number of Outage Events(N) (b)	Average Duration (L-Bar) (c)	Average Restoration Time (CAIDI) (d)
1. Lightning	181	56.43	67.27
2. Vegetation	126	74.44	55.86
3. Animal	121	45.02	64.49
4. Unknown	87	46.36	47.38
5. Corrosion	54	140.24	166.28
6. Transformer Failure	43	116.86	115.23
7. Other Weather	28	79.96	47.21
8. Cut-Out Failure	13	67.23	67.49
9. Vehicle	10	69.30	33.30
10. Salt Spray	1	61.00	61.00
All Other Causes	30	78.56	35.56
System Totals	696	67.60	62.94

3 Percent Feeder List

by Florida Public Utility Company Year 2002

Primary Circuit Id. No. or Name (a)	Sub- station Origin	Location	Number of Customers					Total (h)	Outage Events "N" (i)	Avg Durati on "L- Bar" (j)	CAIDI (k)	Listed Last Year? (l)	No. of Years in the Last 5 (m)	Correctiv e Action Completion Date (n)
			Resident	Commercia l (e)	Industr ial (f)	Other (g)								
9982	Chipola	Mar N.E.	1048	18	1	0	1067	6	57.8s	57.83	No	1	12/17/02	
9512	Marianna	Mar S.W.	379	253	0	0	632	3	42.33	40.97	No	0	None	
214	J L Terry	Fernandina	650	50	0	0	700	2	59.00	59.00	No	0	None	

Service Reliability Indices

Utility Name FLORIDA PUBLIC UTILITIES CO.

Year 2002

District or Service Area (a)	SAIDI (b)	CAIDI (c)	SAIFI (d)	MAIFLe (e)	CEMI5 (f)
N.W. Florida	95.68	49.26	1.94	N/A	N/A
N.E. Florida	60.04	102.48	0.59	N/A	N/A
System Averages	76.64	62.94	1.22	N/A	N/A

ANNUAL DISTRIBUTION RELIABILITY REPORT 2002
Attachment 1 CALCULATIONS

	<u>Northeast Division</u>	<u>Northwest Division</u>	<u>FPUC</u>
SAIDI = System Average Interruption Duration Index			
= <u>Sum of All Customer Minutes Interrupted (CMI)</u>	<u>840,609</u>	<u>1,167,161</u>	<u>2,007,770</u>
Total number of Customers Served (C)	14,000	12,198	26,198
	= 60.04	= 95.68	= 76.64
CAIDI = Customer Average Interruption Duration Index			
= <u>Sum of All Customer Minutes Interrupted (CMI)</u>	<u>840,609</u>	<u>1,167,161</u>	<u>2,007,770</u>
Total number of Customers Interruptions (CI)	8,203	23,695	31,898
	= 102.48	= 49.26	= 62.94
SAIFI = System Average Interruption Frequency Index			
= <u>Total number of Customers Interruptions (CI)</u>	<u>8,203</u>	<u>23,695</u>	<u>31,898</u>
Total number of Customers Served (C)	14,000	12,198	26,198
	= 0.59	= 1.94	= 1.22

One Energy Place
Pensacola, Florida 32520

Tel 950 444.6111



February 28, 2003

Mr. Tim Devlin, Director
Division of Economic Regulation
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee FL 32399-0868

RECEIVED
FLORIDA PUBLIC SERVICE
COMMISSION
03 MAR -3 AM 10: 06
DIVISION OF
ECONOMIC REGULATION

Dear Mr. Devlin:

Attached is Gulf Power Company's Annual Distribution Service Reliability Report as required by Rule 25-6.0455.

Sincerely,

A handwritten signature in cursive script that reads "Susan D. Ritenour".

Susan D. Ritenour
Assistant Secretary and Assistant Treasurer

lw

Attachment

ANNUAL DISTRIBUTION RELIABILITY REPORT 2002

Gulf Power Company

	CENTRAL		EASTERN		WESTERN		SYSTEM	
SAIDI = System Average Interruption Duration Index								
<u>Total Number of Customer Minutes of Interruption (CMI)</u>	9,898,120		7,204,497		17,132,799		34,235,416	
<u>Total Number of Customers Served (C)</u>	97,753	101.26	93,246	77.26	192,924	88.81	383,923	89.17
CAIDI = Customer Average Interruption Duration Index								
<u>Total Number of Customer Minutes of Interruption (CMI)</u>	9,898,120		7,204,497		17,132,799		34,235,416	
<u>Total Number of Customer Interruptions (CI)</u>	100,228	98.76	75,688	95.19	196,947	86.99	372,863	91.82
SAIFI = System Average Interruption Frequency Index								
<u>Total Number of Customer Interruptions (CI)</u>	100,228		75,688		196,947		372,863	
<u>Total Number of Customers Served (C)</u>	97,753	1.025	93,246	0.812	192,924	1.021	383,923	0.971
MAIFI_e = Momentary Average Interruption Frequency Index								
<u>Total Number of Customer Momentary Interruption Events (CME)</u>	1,058,487		826,766		2,457,785		4,343,038	
<u>Total Number of Customers Served (C)</u>	97,753	10.83	93,246	8.87	192,924	12.74	383,923	11.31
CEMI5 = Customers Experiencing More Interruptions than 5								
<u>Number of Customers Experiencing More Interruptions than 5</u>	1,303		598		2,061		3,962	
<u>Total Number of Customers Served (C)</u>	97,753	1.33%	93,246	0.64%	192,924	1.07%	383,923	1.03%
L-Bar								
<u>Minutes of Interruption</u>							1,156,293	
<u>Total Number of Outages</u>							10,968	105.42

Primary Causes of Outage Events

Utility Name: Gulf Power Company Year 2002

Cause (a)	Number of Outage Events(N) (b)	Average Duration (L-Bar) (c)	Average Restoration Time (CAIDI) (d)
1. Animal	4074	68.94	65.30
2. Lightning	1865	143.43	108.54
3. Deterioration	1677	138.51	117.00
4. Unknown	1150	98.54	70.57
5. Trees	1075	117.66	84.15
6. Vehicle	246	140.37	122.99
7. Overload	221	106.51	120.27
8. Wind/Rain	126	138.49	108.92
9. Other	125	102.40	76.58
10. Vines	103	84.66	138.40
All Other Causes	306	126.75	59.45
System Totals	10968	105.42	91.82

Service Reliability Indices

Utility Name: Gulf Power Company Year: 2002

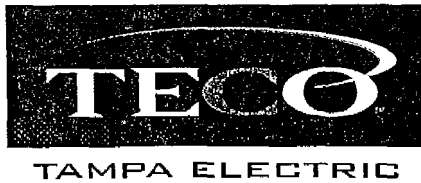
District or Service Area (a)	SAIDI (b)	CAIDI (c)	SAIFI (d)	MAIFle (e)	CEMI5 (f)
Central	101.26	98.76	1.025	10.83	1.33%
Eastern	77.26	95.19	0.812	8.87	0.64%
Western	88.81	86.99	1.021	12.74	1.07%
System Averages	89.17	91.82	0.971	11.31	1.03%

3 Percent Feeder List

Utility Name: Gulf Power Company Year: 2002

Primary Circuit Id. No. or Name (a)	Sub-station Origin (b)	Location (c)	Number of Customers						Outage Events "N" (i)	Avg Duration "L-Bar" (j)	CAIDI (k)	Listed Last Year? (l)	No. of Years in the Last 5 (m)	Corrective Action Completion Date (n)
			Residential (d)	Commercial (e)	Industrial (f)	Other (g)	Total (h)							
5812	East Bay	Western	1787	287	-	1	2075	3	98.67	79.54	No	0	Complete in 2002	
6932	Cantonment	Western	1107	77	-	-	1184	3	58.33	57.26	No	2	Complete in 2002	
8702	Redwood	Eastern	1799	175	-	-	1974	3	65.33	64.81	No	0	Complete in 2002	
2619	Clear Springs	Central	68	12	-	-	80	2	186.00	186.00	No	0	Complete in 2002	
5822	East Bay	Western	1025	68	-	-	1093	2	72.00	71.92	No	0	Complete in 2002	
5882	Hurlburt	Central	2322	134	-	-	2456	2	52.33	78.17	No	0	Complete in 2002	
6042	Beach Haven	Western	1728	151	-	-	1879	2	29.50	29.48	Yes	1	Complete in 2002	
6432	Paxton	Central	168	42	-	5	215	2	162.00	160.74	No	0	Complete in 2002	

SC/ECR 102-2 (11/2002)



March 3, 2003

Ms. Blanca Bayo, Director
Division of Commission Clerk
& Administrative Services
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

Re: Florida Administrative Code, Rule 25-6.0455, Annual Distribution Service Reliability Report

Dear Ms. Bayo:

Pursuant to Florida Administrative Code Rule 25.6-0455, enclosed for filing are the original and fifteen (15) copies of Tampa Electric Company's Distribution Service Reliability Report for 2002.

If you have any questions, please call me at (813) 228-1752.

Sincerely,

Angela L. Llewellyn
Administrator
Regulatory Affairs

Enclosure

cc: J. D. Beasley (w/enclosure)

DOCUMENT NUMBER-DATE

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FPSC-COMMISSION CLERK

TAMPA ELECTRIC COMPANY
P. O. BOX 1111 TAMPA, FL 33601-0111

(813) 228-4111

AN EQUAL OPPORTUNITY COMPANY

CUSTOMER SERVICE:
HILLSBOROUGH COUNTY (813) 223-0800
OUTSIDE HILLSBOROUGH COUNTY 1 (888) 223-0800



2002 DISTRIBUTION SERVICE
RELIABILITY REPORT
TO THE
FLORIDA PUBLIC SERVICE COMMISSION
AS DESCRIBED IN RULE 25-6.0455

ANNUAL DISTRIBUTION RELIABILITY REPORT - 2002

Utility Name: Tampa Electric

SAIDI: System Average Interruption Duration Index		
= <u>Sum of All Customer Minutes Interrupted (CMI)</u>	<u>35,349,788</u>	57.19
Total number of Customers Served (C)	618,161	
 CAIDI: System Average Interruption Duration Index		
= <u>Sum of All Customer Minutes Interrupted (CMI)</u>	<u>35,349,788</u>	60.82
Total number of Customer Interruptions (CI)	581,220	
 SAIFI: System Average Interruption Frequency Index		
= <u>Total number of Customer Interruptions (CI)</u>	<u>581,220</u>	0.94
Total number of Customers Served (C)	618,161	
 MAIFle: Momentary Average Interruption Event		
= <u>Sum of All Customer Momentary Interruption Events (CME)</u>	<u>10,244,469</u>	16.57
Total number of Customers Served (C)	618,161	
 LBar:		
= <u>Minutes of Interruption</u>	<u>1,711,803</u>	143.85
Total number of Outages	11,900	

District	C	CMI	CI	CME	# Cust > 5
Central	171,507	7,590,988	123,843	2,164,790	157
Dade City	13,174	1,160,532	18,562	303,209	13
Eastern	95,339	5,075,509	77,610	1,704,001	120
Plant City	49,436	3,629,513	61,877	1,137,835	419
South Hillsborough	43,838	3,472,293	58,673	1,029,476	764
Western	181,194	10,369,950	167,622	2,883,624	372
Winter Haven	63,673	3,683,309	61,766	1,021,518	148
System Totals	618,161	35,349,788	581,220	10,244,469	1,993

**THREE PERCENT
HIGHEST INTERRUPTED
DISTRIBUTION CIRCUITS**

3 Percent Feeder List

Year: 200

Utility Name: Tampa Electric

Primary Circuit Id. No. or Name (a)	Substation Origin (b)	Location (c)	Number of Customers					Outage Events "N" (i)	Avg. Duration "L-Bar" (j)	CAIDI (k)	Listed Last Year? (l)	Years in the Last 5 (m)	Action Completion Date (n)
			Residential (d)	Commerical (e)	Industrial (f)	Other (g)	Total (h)						
13256	Gulf City	South Hillsborough	977	252	9		1,238	7	40.71	40.69	No	1	
13303	Sun City	South Hillsborough	1,491	289	31		1,811	7	39.14	39.97	No	0	
13379	Plant Avenue	Western	975	34	3		1,012	5	18.20	18.09	Yes	1	
13428	Rocky Creek	Western	1,225	62	4		1,291	5	30.20	27.03	No	1	
13927	Lake Gum	Winter Haven	1,456	115	16		1,587	5	31.60	31.53	No	0	
13003	Ruskin	South Hillsborough	582	148	24		754	4	33.25	33.28	No	1	
13036	Belmont Heights	Central	967	89	23		1,079	4	41.50	39.66	No	0	
13175	11th Avenue	Central	1,456	178	36		1,670	4	31.75	31.18	No	0	
13328	Dade City	Dade City	394	118	25		537	4	52.00	52.02	No	0	
13382	Plant Avenue	Western	1,035	106	21		1,162	4	21.25	21.40	No	1	
13434	12th Avenue	Eastern	1,335	70	21		1,426	4	26.25	31.49	No	0	
13621	Wayne Road	Western	1,337	96	21		1,454	4	19.00	16.60	No	0	
13698	Berkley	Winter Haven	1,164	138	14		1,316	4	51.00	50.92	No	0	
13785	Pinecrest	Plant City	994	70	18		1,082	4	33.00	33.77	No	0	
13910	Peach Avenue	Eastern	1,246	56	5		1,307	4	27.00	27.00	Yes	2	
13010	Mulberry	Plant City	1,312	137	27		1,476	3	47.33	47.34	No	2	
13060	Himes	Western	1,285	104	28		1,417	3	45.33	43.22	No	0	
13414	Plant City	Plant City	754	123	27		904	3	45.67	43.31	No	1	
13444	Lake Region	Winter Haven	552	39	7		598	3	61.00	72.77	No	0	
13756	Granada	Western	1,492	153	21		1,666	3	97.67	97.85	No	0	

Form PSC/ECR 102-2, Docket No. 011351-EI, Rule 25-6.0455(b)

Notes:

L-Bar and CAIDI are based on the entire circuit.

L-Bar and CAIDI are expressed in minutes

DISTRIBUTION INTERRUPTIONS
BY
CATEGORY

Primary Causes of Outage Events			
Utility Name: Tampa Electric		Year: 2002	
Cause (a)	Number of Outages Events (N) (b)	Average Duration (L-Bar) (c)	Average Restoration Time (CAIDI) (d)
1. Lightning	2,148	190.56	89.84
2. Animals	2,133	81.18	50.30
3. Unknown	1,783	124.00	50.03
4. Vegetation	1,668	158.09	70.90
5. Electrical	1,125	163.61	61.19
6. Other Weather	976	147.35	62.10
7. Bad Connection	752	148.94	82.34
8. Human Interference	349	145.40	36.68
9. Vehicle	331	171.39	53.25
10. Defective Equipment	290	154.31	82.74
All Remaining Causes	345	151.97	44.41
System Totals	11,900	143.85	60.82

Form PSC/ECR 102-1, Docket No. 011351-EI, Rule 25-6.0455(a)

Notes:

L-Bar and CAIDI are expressed in minutes.

SERVICE RELIABILITY INDICES

Service Reliability Indices

Utility Name: Tampa Electric

Year: 2002

District or Service Area (a)	SAIDI (b)	CAIDI (c)	SAIFI (d)	MAIFle (e)	CEMI5 (f)
Central	44.26	61.30	0.72209	12.62	0.09%
Dade City	88.09	62.52	1.40899	23.02	0.10%
Eastern	53.24	65.40	0.81404	17.87	0.13%
Plant City	73.42	58.66	1.25166	23.02	0.85%
South Hillsborough	79.21	59.18	1.33841	23.48	1.74%
Western	57.23	61.87	0.92510	15.91	0.21%
Winter Haven	57.85	59.63	0.97005	16.04	0.23%
System	57.19	60.82	0.94024	16.57	0.32%

Form PSC/ECR 102-3, Docket No. 011351-E1, Rule 25-6.0455(c)

Notes:

SAIDI and CAIDI are expressed in minutes



ORIGINAL

JAMES A. MCGEE
ASSOCIATE GENERAL COUNSEL
PROGRESS ENERGY SERVICE CO., LLC

February 28, 2003

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

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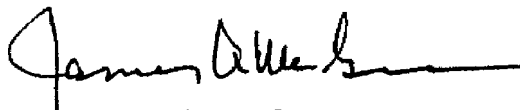
Re: Annual Distribution Service Reliability Report

Dear Ms. Bayó:

Enclosed for filing in the subject docket on behalf of Progress Energy Florida, Inc., formerly Florida Power Corporation, pursuant to Rule 25-6.0455, F.A.C., are an original and fifteen copies of the subject report for 2002.

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 and Excel formats. Thank you for your assistance in this matter.


Very truly yours,


James A. McGee

JAM/scc
Enclosure

- US _____
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ANNUAL DISTRIBUTION RELIABILITY REPORT 2002
(year)

Progress Energy - Florida
(Utility)

SAIDI = System Average Interruption Duration Index

$$\frac{\text{Sum of All Customer Minutes Interrupted (CMI)}}{\text{Total number of Customers Served (C)}} = \frac{130,015,249}{1,477,124} = 88.0 \text{ (SAIDI)}$$

CAIDI = Customer Average Interruption Duration Index

$$\frac{\text{Sum of Customer Minutes Interrupted (CMI)}}{\text{Total number of Customer Interruptions (CI)}} = \frac{130,015,249}{1,854,195} = 70.1 \text{ (CAIDI)}$$

SAIFI = System average interruption frequency index.

$$\frac{\text{Total Number of Customer Interruptions (CI)}}{\text{Total Number of Customers Served (C)}} = \frac{1,854,195}{1,477,124} = 1.26 \text{ (SAIFI)}$$

MAIFI_e = Momentary average interruption event

$$\frac{\text{Sum of all Customer Momentary Interruption Events (CME)}}{\text{Total Number of Customers Served (C)}} = \frac{23,881,454}{1,477,124} = 16.2 \text{ (MAIFI_e)}$$

REGION	# Customers Served (C)	# Interruptions (N)	Customers Interrupted (CI)	Customer Minutes of Interruption (CMI)	Customer Momentary Interruption Events (CME)	# Customers Interrupted >5
North Coastal	107,376	5,150	184,844	16,706,007	1,511,012	3,820
Suncoast	628,228	13,573	661,405	41,400,569	10,517,969	3,744
North Central Florida	416,604	13,048	624,390	44,115,436	6,759,909	8,739
South Central Florida	324,916	8,422	383,556	27,793,237	5,092,564	5,263
System Total	1,477,124	40,193	1,854,195	130,015,249	23,881,454	21,566

Primary Causes of Outage Events

Utility Name - Progress Energy, Florida

Year - 2002

CAUSE (a)	Number of Outage Events (N) (b)	Average Duration (L-Bar) (c)	Average Restoration Time (CAIDI) (d)
1. UNKNOWN	5,326	78	72.9
2. ANIMAL	4,871	63	58.2
3. STORM	4,400	114	104.6
4. TREE-PREVENTABLE	4,013	113	74.9
5. DEFECTIVE EQUIP.	3,674	164	64.5
6. UG SECONDARY/SERV	3,492	154	170.0
7. TREE-NONPREVENT	2,993	122	74.8
8. CONNECTR FAILURE	2,885	97	68.1
9. UG PRIMARY CABLE	2,805	163	78.4
10. LIGHTNING	2,145	122	75.2
All Other Causes	3,589	107	47.6
System Totals	40,193	114	70.1

Service Reliability Indices

Utility Name Progress Energy, Florida

Year 2002

District or Service Area (a)	SAIDI (b)	CAIDI (c)	SAIFI (d)	MAIFIe (e)	CEMIS (f)
North Coastal	155.6	90.4	1.72	14.1	3.56%
Suncoast	65.9	62.6	1.05	16.7	0.60%
North Central Florida	105.9	70.7	1.5	16.2	2.10%
South Central Florida	85.5	72.5	1.18	15.7	1.62%
System	88	70.1	1.26	16.2	1.46%

3 percent Feeder List

Utility Name Progress Energy, Florida

Year 2002

Primary Circuit ID (a)	Substation on Origin (b)	Location (c)	Number of Customers					Outage Events "N" (i)	Avg Duration on "L-Bar" (j)	CAIDI (k)	Listed Last Year? (l)	No. of Years in the last 5 (m)	Corrective Action Completion Date (n)
			Residential (d)	Commercial (e)	Industrial (f)	Other (g)	Total (h)						
K779	Islesworth	South Central	496	78		3	577	5	233	58	No	1	05/01/03
W0630	Holopaw	South Central	633	57		1	691	5	105	93	Yes	2	05/01/03
K396	Pinecastle	South Central	968	222	11	23	1,224	5	46	46	No	None	05/01/03
W0212	Narcoossee	South Central	1,576			0	1,576	5	28	28	No	None	05/01/03
M726	Apk South	North Central	1,207	280	1	31	1,519	5	25	22	No	None	11/01/02
M723	Apk South	North Central	1,797	115		17	1,929	4	71	25	No	None	12/01/02
A36	Reddick	North Coastal	901	188		14	1,103	4	60	60	No	1	05/01/03
X71	Vinoy	Suncoast	3,031	246		31	3,308	4	47	29	No	None	06/01/03
X133	Crossroads	Suncoast	2,368	87	4	20	2,479	4	41	27	No	None	06/01/03
A204	Zuber	North Coastal	2,794	390	6	14	3,204	4	33	33	Yes	2	06/01/03
X132	Crossroads	Suncoast	579	170	10	12	771	4	33	23	No	None	06/01/03
J684	Ulmerton West	Suncoast	2,117	214	1	6	2,338	4	29	21	No	None	06/01/03
W0028	Casselberry	North Central	843	96		6	945	4	17	17	No	None	10/01/03
C11	Clearwater	Suncoast	995	490	6	40	1,531	4	14	12	No	None	06/01/03
K966	Intercession City	South Central	1,514	144	1	24	1,683	3	252	111	No	1	05/01/03
X113	Gateway	Suncoast	1,752	118		3	1,873	3	250	46	No	None	06/01/03
M501	Eustis	North Central	2,152	218	1	44	2,415	3	221	58	No	1	10/01/03
A200	Adams	North Coastal	1,462	82	4	2	1,550	3	104	45	No	None	06/01/03
C8	Clearwater	Suncoast	262	86		20	368	3	100	94	No	None	06/01/03
A4	Belleview	North Coastal	1,946	172		3	2,121	3	89	38	No	None	06/01/03
K226	Orangewood	South Central	1,745	59		12	1,816	3	84	41	No	None	05/01/03
A212	Tropic Terrace	North Coastal	522	202	4	21	749	3	83	54	No	None	06/01/03
N43	Carrabelle	North Coastal	1,337	186	2	40	1,565	3	82	82	No	None	06/01/03
A38	Martin	North Coastal	1,745	255		25	2,025	3	67	38	No	2	06/01/03
K883	Lake Wilson	South Central	1,770	126		11	1,907	3	66	65	No	None	01/01/03
W0015	Winter Park	North Central	1,327	497	6	19	1,849	3	66	66	No	None	11/01/02
M545	Welch Rd	North Central	1,935	281		24	2,240	3	63	39	No	None	07/01/02
M1709	Douglas Ave	North Central	135	179		14	328	3	62	38	No	1	03/01/03
M657	Myrtle Lake	North Central	403	33		13	449	3	61	44	No	None	07/01/02
W0274	East Orange	South Central	1,851	82		15	1,948	3	55	49	No	None	11/01/02
M1518	Lisbon	North Coastal	2,922	162	4	21	3,109	3	48	48	No	None	08/01/02
M85	Maitland	North Central	1,890	155		10	2,055	3	48	48	No	None	05/01/03
W0806	Deland	North Central	1,573	485	5	67	2,130	3	42	42	No	None	12/01/02
W0470	Sunflower	North Central	1,778			0	1,778	3	40	40	No	None	09/01/02
W0123	Deltona East	North Central	1,905	92		11	2,008	3	39	39	No	None	03/01/03