

State of Florida



**Public Service Commission**  
CAPITAL CIRCLE OFFICE CENTER • 2540 SHUMARD OAK BOULEVARD  
TALLAHASSEE, FLORIDA 32399-0850

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

**DATE:** March 2, 2005  
**TO:** Blanca S. Bayó, Commission Clerk and Administrative Services Director  
**FROM:** Timothy J. Devlin, Director, Division of Economic Regulation  
**RE:** Annual Distribution Service Reliability Reports

RECEIVED - PPSO  
05 MAR -2 PM 2:02  
COMMISSION CLERK

050000

Please add the following Distribution Reliability Reports for Calendar Year 2004 to Case Management, Docket Number 050000. The data in these reports are comparable with those in Document Number 03592-04 in Docket Number 040000, which contained the reports for 2003. If you have any questions, please let me know. Thank you.

UTILITY	DATA YEAR	YEAR FILED	DOCUMENT NUMBER
PEF	2004	2005	01869
FPL	2004	2005	None
FPUC	2004	2005	None
GULF	2004	2005	None
TECO	2004	2005	02052

TD/SM:kb

✓ OFFICIAL FILE COPY  
DIRECTOR \_\_\_\_\_  
AA \_\_\_\_\_  
HR \_\_\_\_\_  
ASSIST DIR. \_\_\_\_\_  
FIS \_\_\_\_\_  
PPS \_\_\_\_\_  
ITS \_\_\_\_\_  
GSS \_\_\_\_\_  
RCH Ray Flynn  
REP \_\_\_\_\_  
OTHER \_\_\_\_\_  
DATE 3/2/05  
FROM BSB

05 MAR -2 PM 2:45  
COMMISSION CLERK  
ADMINISTRATIVE SERVICES

Please handle

DOCUMENT NUMBER-DATE

02188 MAR-2 5

COMMISSION CLERK



March 1, 2005

Mr. Joseph D. Jenkins, Assistant Director  
Division of Economic Regulation  
Florida Public Service Commission  
2540 Shumard Oak Boulevard  
Tallahassee, Florida 32339-0850

RECEIVED  
FLORIDA PUBLIC SERVICE  
COMMISSION  
05 MAR - 1 AM 11: 15  
DIVISION OF  
ECONOMIC REGULATION

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 2004. We are making this filing pursuant to Rule 25-6.0455 F.A.C.

Order No. PSC-04-112-PA-EI, granted FPL a special exclusion for the weather related event on April 13, 2004. We are submitting our filing with and without this weather event.

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', written over a light gray rectangular background.

Bill Feaster  
Manager, Regulatory Affairs



# ANNUAL DISTRIBUTION RELIABILITY REPORT 2004

## February 2005

This report includes the exclusion from the MCC event on 4/13/04.

**SAIDI = System Average Interruption Duration Index**

$$= \frac{\text{Sum of All Customer Minutes Interrupted (CMI)}}{\text{Total number of Customers Served (C)}} \quad \frac{291,985,485}{4,189,689} \quad 69.7$$

**CAIDI = Customer Average Interruption Duration Index**

$$= \frac{\text{Sum of All Customer Minutes Interrupted (CMI)}}{\text{Total number of Customers Interruptions (CI)}} \quad \frac{291,985,485}{5,091,808} \quad 57.3$$

**SAIFI = System Average Interruption Frequency Index**

$$= \frac{\text{Total number of Customers Interruptions (CI)}}{\text{Total number of Customers Served (C)}} \quad \frac{5,091,808}{4,189,689} \quad 1.22$$

**MAIFle = Momentary Average Interruption Event**

$$= \frac{\text{Sum of All Customer Momentary Interruption Events (CME)}}{\text{Total number of Customers Served (C)}} \quad \frac{45,619,687}{4,189,689} \quad 10.9$$

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

$$\frac{88,966}{179.2}$$

Service Reliability Indices Data					
Utility Name	FPL	Year	2004		
District or Service Area	Customer Served (C)	CMI	CI	CME	# Cust >5
Brevard	264,851	21,388,547	349,288	3,685,564	5,789
Central Florida	241,517	25,830,710	417,295	3,202,097	12,757
Gulf Coast	374,578	24,045,454	456,173	3,307,183	6,158
Manasota	342,322	20,904,078	288,889	2,756,917	3,677
North Florida	120,285	11,588,952	193,533	1,545,655	4,353
Toledo Blade	144,993	13,530,883	209,265	2,016,624	6,709
Treasure Coast	237,794	27,752,260	420,881	3,922,908	14,961
Boca Raton	340,279	20,924,581	419,241	3,303,958	4,160
Central	231,185	11,345,272	209,470	2,069,428	4,725
Gulfstream	310,684	15,502,207	329,797	3,441,478	5,452
North Dade	216,609	16,034,481	245,767	2,043,981	6,646
Pompano	296,961	15,882,821	254,396	2,263,314	1,213
South Dade	278,713	18,274,536	349,652	3,202,747	5,794
West Palm	322,670	21,325,708	375,835	3,636,526	3,887
Wingate	251,910	13,863,702	336,127	2,831,171	6,779
West Dade	214,338	13,791,293	236,199	2,390,136	4,608
<b>FPL</b>	<b>4,189,689</b>	<b>291,985,485</b>	<b>5,091,808</b>	<b>45,619,687</b>	<b>93,790</b>

## ANNUAL DISTRIBUTION RELIABILITY REPORT 2004

This report includes the exclusion from the MCC event on 4/13/04.

February 2005	FPL	Year	2004		
District or Service Area	SAIDI	CAIDI	SAIFI	MAIFle	CEMI5
(a)	(b)	(c)	(d)	(e)	(f)
Brevard	80.8	61.2	1.32	13.9	2.2%
Central Florida	107.0	61.9	1.73	13.3	5.3%
Gulf Coast	64.2	52.7	1.22	8.8	1.6%
Manasota	61.1	72.4	0.84	8.1	1.1%
North Florida	96.3	59.9	1.61	12.8	3.6%
Toledo Blade	93.3	64.7	1.44	13.9	4.6%
Treasure Coast	116.7	65.9	1.77	16.5	6.3%
Boca Raton	61.5	49.9	1.23	9.7	1.2%
Central	49.1	54.2	0.91	9.0	2.0%
Gulfstream	49.9	47.0	1.06	11.1	1.8%
North Dade	74.0	65.2	1.13	9.4	3.1%
Pompano	53.5	62.4	0.86	7.6	0.4%
South Dade	65.6	52.3	1.25	11.5	2.1%
West Palm	66.1	56.7	1.16	11.3	1.2%
Wingate	55.0	41.2	1.33	11.2	2.7%
West Dade	64.3	58.4	1.10	11.2	2.1%
FPL	69.7	57.3	1.215	10.9	2.2%

**ANNUAL DISTRIBUTION RELIABILITY REPORT 2004**

This report includes the exclusion from the MCC event on 4/13/04.

February 2005	FPL	Year	2004
	Number of Outage Events(N)	Average Duration (L-Bar)	Average Restoration Time (CAIDI)
Cause (a)	(b)	(c)	(d)
Equipment Failure	21,633	217	56.0
Vegetation	15,225	174	73.9
Unknown	13,811	149	39.5
Animal	10,153	79	56.4
Other Weather	7,413	132	56.8
Other	6,575	178	43.0
Lightning	4,212	262	68.6
Equipment Connection	1,932	171	118.9
Vehicle	1,751	204	52.9
Remaining Causes	6,261	287	58.8
<b>System Total</b>	<b>88,966</b>	<b>179</b>	<b>57.3</b>

ANNUAL DISTRIBUTION RELIABILITY REPORT 2004

This report includes the exclusion from the MCC event on 4/13/04.

Feb 2005	FPL	Year	Number of Customers					Outage	Average	CAIDI	Listed	No. of	Corrective
Primary	Substation		Residential	Commercial	Industrial	Other	Total	Events(N)	Duration	Last	Years	Action	
Circuit	Origin		(d)	(e)	(f)	(g)	(h)	(i)	"L-Bar"	Year?	in the	Completion	
Id. No. or	(b)								(j)	(k)	Last 5	Date	
Name	(a)										(m)	(n)	
ORANGEDALE	101885		1770	154	48	0	1970	12	74	30.0	No	1	03/31/05
PENNSUCO	807184		998	188	3	0	1189	9	94	23.0	No	1	06/30/05
DEAUVILLE	801937		842	85	6	0	733	8	82	41.0	Yes	2	08/24/04
WINDMILL	708061		734	104	14	0	852	6	45	6.0	No	0	06/30/05
BUCKEYE	505862		2302	96	29	0	2427	7	114	32.0	Yes	1	01/20/05
BRANDON	808832		1711	182	1	0	1894	7	75	30.0	Yes	2	06/01/05
HOLY CROSS	701833		1375	522	4	0	1901	7	66	28.0	No	0	02/28/05
40TH ST	800938		435	44	0	0	479	7	43	22.0	No	0	06/01/05
DRIFTWOOD	702033		2181	145	4	0	2330	7	38	16.0	No	0	08/04/04
REGIS	106363		744	147	29	0	920	7	33	13.0	No	0	10/18/04
FLAGLER BEACH	101464		1740	226	20	0	1988	6	213	39.0	No	1	05/01/04
CRANE	407162		1442	378	27	0	1847	6	206	39.0	No	0	12/15/04
SWEATT	409301		794	258	22	0	1074	6	196	86.0	Yes	1	03/10/05
NEWTON	810386		1276	154	1	0	1431	6	183	53.0	No	0	03/03/05
PENNSUCO	807181		87	208	3	0	298	6	178	49.0	No	0	12/28/04
WESTON VILLAGE	807831		1487	39	3	0	1509	6	163	42.0	Yes	1	08/01/05
LITTLE RIVER	800835		554	185	3	0	722	6	159	19.0	No	1	04/06/04
FLAGLER BEACH	101461		1186	511	10	0	1697	6	151	37.0	Yes	1	06/30/05
GLENDALE	407501		2080	348	18	0	2428	6	117	42.0	No	1	05/01/05
ROCK ISLAND	701832		2271	121	6	0	2398	6	112	25.0	No	0	11/30/04
ROSS	408185		2485	171	22	0	2678	6	105	38.0	No	0	02/01/06
LINTON	401931		1713	392	18	0	2123	6	90	26.0	Yes	2	06/10/04
OPA LOCKA	801231		1375	240	7	0	1622	6	85	15.0	No	0	08/30/05
MIAMI SHORES	803431		898	52	0	0	750	6	10	5.0	No	0	08/30/05
BUCKEYE	505884		1083	85	20	0	1188	5	230	106.0	No	0	04/01/05
ANHINGA	811381		874	229	11	0	1114	5	175	39.0	No	0	02/02/06
PORT	701433		388	465	5	0	836	5	174	8.0	No	1	06/30/05
BOYNTON	400533		845	289	9	0	1143	5	161	27.0	No	1	03/10/04
DEAUVILLE	801940		1233	82	3	0	1318	5	127	18.0	No	0	10/01/04
QUANTUM	407931		2834	161	10	0	3105	5	118	13.0	No	0	03/10/04
MICCO	203433		1538	233	8	0	1779	5	114	32.0	No	1	04/29/05
WILLOW	103832		1817	64	12	0	1893	5	103	40.0	No	0	06/30/05
BIRD	800637		979	169	1	0	1149	5	99	12.0	No	1	07/30/04
ST JOE	102388		2070	383	14	0	2467	5	80	20.0	Yes	1	06/30/04
HOMESTEAD	803233		3164	77	2	0	3243	5	75	48.0	No	0	11/30/04
GRANT	208782		1817	123	20	0	1960	5	74	52.0	No	0	03/09/05
FAIRMONT	700738		1284	104	2	0	1370	5	64	19.0	No	1	01/25/05
LINDGREEN	808270		2348	184	0	0	2510	5	60	22.0	No	0	03/30/05
RIVERSIDE	800538		1515	80	0	0	1595	5	57	39.0	No	0	08/30/05
STONEBRIDGE	704781		2409	198	5	0	2612	5	44	30.0	No	0	07/29/04
GENEVA	205381		780	71	14	0	845	5	4	3.0	No	0	08/11/04
AUBURN	505764		1528	389	34	0	1931	4	212	21.0	No	0	04/01/05
AVOCADO	810062		1050	356	25	0	1431	4	209	61.0	Yes	2	03/30/05
PAHOKEE	400833		781	188	7	0	954	4	198	44.0	No	1	07/02/04
SOUTH VENICE	503432		838	485	0	0	1323	4	184	74.0	No	0	02/03/05
SEBASTIAN	405782		2585	441	2	0	3008	4	177	42.0	No	0	10/01/04
WYOMING	207382		2181	80	9	0	2280	4	175	47.0	No	1	04/29/05
BEVERLY	700932		1318	193	2	0	1513	4	189	32.0	Yes	1	08/12/04
CLINTMOORE	405487		1464	112	18	0	1594	4	163	56.0	No	0	03/28/04
HOLY CROSS	701837		1005	61	5	0	1071	4	156	58.0	No	0	10/31/04
SHERMAN	409081		1347	254	20	0	1621	4	159	66.0	No	0	12/12/04
COVE	408284		3588	183	12	0	3741	4	150	13.0	No	0	12/31/04
HAINLIN	808438		327	200	14	0	541	4	148	16.0	Yes	3	04/11/06
MIRAMAR	802131		1093	557	4	0	1654	4	146	51.0	No	0	06/01/05
BISCAYNE	801839		1881	131	2	0	1994	4	133	48.0	No	1	09/30/05
SEABOARD	803833		240	186	0	0	428	4	131	26.0	No	1	11/30/04
BASSCREEK	706389		3101	74	3	0	3178	4	130	24.0	No	0	08/12/04
MILITARY TRAIL	403034		1589	207	7	0	1783	4	124	50.0	No	0	07/23/04
ELY	702638		159	8	0	0	187	4	123	14.0	No	0	05/31/05
PORT MAYACA	402761		131	62	1	0	194	4	122	70.0	No	0	10/01/05
SUNILAND	806535		908	25	19	0	952	4	122	48.0	No	0	12/22/04
FLEMING	102438		1013	100	4	0	1117	4	121	42.0	No	0	06/01/04
CITY POINT	201533		1548	241	9	0	1798	4	118	47.0	No	0	03/11/04
HIALEAH	800738		978	247	2	0	1225	4	113	13.0	No	0	12/31/05
NATOMA	805236		1488	123	3	0	1612	4	111	64.0	No	1	08/01/05
PORT SEWALL	404937		2140	83	43	0	2276	4	109	77.0	No	0	03/01/05
MOFFETT	704131		2122	495	2	0	2619	4	109	22.0	No	0	05/30/05
SEBASTIAN	405783		1200	471	6	0	1677	4	108	84.0	No	0	04/15/05
COLUMBIA	301138		405	28	9	0	442	4	107	61.0	No	0	8/10/2004
LAKE PARK	403932		2025	376	3	0	2404	4	102	35.0	No	0	01/21/05
SNAPPER CREEK	808834		788	102	21	0	911	4	100	32.0	No	0	01/05/05
SANFORD	200133		2482	232	4	0	2698	4	94	54.0	No	0	10/27/04
OLYMPIA	401784		833	102	80	0	1095	4	84	39.0	No	1	05/01/05
SWEETWATER	809781		1089	16	6	0	1111	4	94	38.0	No	0	06/30/05
VANDERBILT	506765		2807	182	36	0	3025	4	82	27.0	No	0	09/30/05
BOCA TECCA	404234		2296	72	11	0	2379	4	80	65.0	No	1	11/23/04
ABERDEEN	408882		4195	204	7	0	4406	4	78	42.0	Yes	1	04/02/05
MERCHANDISE	807236		2630	153	3	0	2786	4	75	46.0	No	0	09/30/05
WILLOW	103835		0	40	0	0	40	4	75	44.0	No	0	08/30/05
JASMINE	810581		1207	847	2	0	1856	4	74	31.0	No	2	05/15/04
COURT	809882		4024	186	2	0	4222	4	74	12.0	Yes	2	04/30/05
LAWRENCE	805134		1825	139	2	0	1768	4	73	27.0	No	0	06/01/05
PROCTOR	505168		1587	145	8	0	1740	4	70	40.0	No	0	12/31/04
NATOMA	805233		1855	122	1	0	1978	4	68	24.0	No	0	08/01/05
GOULDS	807337		2235	159	6	0	2400	4	66	24.0	No	0	09/30/05
HAINLIN	808433		584	128	2	0	694	4	84	44.0	No	0	09/30/05



# ANNUAL DISTRIBUTION RELIABILITY REPORT 2004

## February 2005

This report removes the exclusion from the MCC event on 4/13/04.

**SAIDI = System Average Interruption Duration Index**

=  $\frac{\text{Sum of All Customer Minutes Interrupted (CMI)}}{\text{Total number of Customers Served (C)}}$  309,600,631 / 4,189,689 = 73.9

**CAIDI = Customer Average Interruption Duration Index**

=  $\frac{\text{Sum of All Customer Minutes Interrupted (CMI)}}{\text{Total number of Customers Interruptions (CI)}}$  309,600,631 / 5,210,878 = 59.4

**SAIFI = System Average Interruption Frequency Index**

=  $\frac{\text{Total number of Customers Interruptions (CI)}}{\text{Total number of Customers Served (C)}}$  5,210,878 / 4,189,689 = 1.24

**MAIFle = Momentary Average Interruption Event**

=  $\frac{\text{Sum of All Customer Momentary Interruption Events (CME)}}{\text{Total number of Customers Served (C)}}$  46,496,388 / 4,189,689 = 11.1

**L BAR =  $\frac{\text{Minutes of Interruption}}{\text{Total Number of Outages}}$**

16,349,449 / 90,414 = 181

Service Reliability Indices Data					
Utility Name	FPL	Year	2004		
District or Service Area	Customer Served (C)	CMI	CI	CME	# Cust >5
Brevard	264,851	21,469,527	351,424	3,695,706	7,126
Central Florida	241,517	26,021,217	419,062	3,214,272	13,091
Gulf Coast	374,578	35,578,918	502,855	3,609,021	8,115
Manasota	342,322	21,153,276	291,538	2,773,178	3,684
North Florida	120,285	11,769,180	197,270	1,558,832	4,590
Toledo Blade	144,993	13,616,986	210,221	2,021,524	6,979
Treasure Coast	237,794	29,976,736	443,608	4,055,585	16,174
Boca Raton	340,279	21,882,614	425,343	3,380,076	4,991
Central	231,185	11,469,432	210,240	2,095,851	4,779
Gulfstream	310,684	15,973,183	336,964	3,511,764	5,494
North Dade	216,609	16,324,638	250,844	2,085,796	7,128
Pompano	296,961	16,117,323	258,867	2,287,219	1,221
South Dade	278,713	18,432,962	352,494	3,231,286	5,954
West Palm	322,670	21,858,878	380,076	3,716,008	5,320
Wingate	251,910	14,164,468	343,873	2,870,206	6,865
West Dade	214,338	13,791,293	236,199	2,390,064	4,608
<b>FPL</b>	<b>4,189,689</b>	<b>309,600,631</b>	<b>5,210,878</b>	<b>46,496,388</b>	<b>106,119</b>

**ANNUAL DISTRIBUTION RELIABILITY REPORT 2004**

This report removes the exclusion from the MCC event on 4/13/04.

February 2005	FPL	Year	2004		
District or Service Area (a)	SAIDI (b)	CAIDI (c)	SAIFI (d)	MAIFle (e)	CEMI5 (f)
Brevard	81.1	61.1	1.33	14.0	2.7%
Central Florida	107.7	62.1	1.74	13.3	5.4%
Gulf Coast	95.0	70.8	1.34	9.6	2.2%
Manasota	61.8	72.6	0.85	8.1	1.1%
North Florida	97.8	59.7	1.64	13.0	3.8%
Toledo Blade	93.9	64.8	1.45	13.9	4.8%
Treasure Coast	126.1	67.6	1.87	17.1	6.8%
Boca Raton	64.3	51.4	1.25	9.9	1.5%
Central	49.6	54.6	0.91	9.1	2.1%
Gulfstream	51.4	47.4	1.08	11.3	1.8%
North Dade	75.4	65.1	1.16	9.6	3.3%
Pompano	54.3	62.3	0.87	7.7	0.4%
South Dade	66.1	52.3	1.26	11.6	2.1%
West Palm	67.7	57.5	1.18	11.5	1.6%
Wingate	56.2	41.2	1.37	11.4	2.7%
West Dade	64.3	58.4	1.10	11.2	2.1%
FPL	73.9	59.4	1.24	11.1	2.5%



**ANNUAL DISTRIBUTION RELIABILITY REPORT 2004**

This report removes the exclusion from the MCC event on 4/13/04.

February 2005	FPL	Year	2004
	Number of Outage Events(N)	Average Duration (L-Bar)	Average Restoration Time (CAIDI)
Cause (a)	(b)	(c)	(d)
Equipment Failure	21,765	217	56.3
Vegetation	15,756	179	78.6
Unknown	13,901	149	40.0
Animal	10,198	79	56.5
Other Weather	7,646	138	62.7
Other	6,689	180	46.3
Lightning	4,298	262	68.9
Equipment Connection	1,944	171	122.8
Vehicle	1,755	205	53.0
Remaining Causes	6,415	289	64.0
<b>System Total</b>	<b>90,367</b>	<b>181</b>	<b>59.4</b>

ANNUAL DISTRIBUTION RELIABILITY REPORT 2004

This report removes the exclusion from the MCC event on 4/13/04.

Feb 2005 Primary Circuit Id. No. or Name (a)	FPL Substation Origin (b)	Year 2004 Residential (d)	Commercial (e)	Industrial (f)	Other (g)	Total (h)	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)
ORANGDALE	101865	1770	154	48	0	1970	12	74	30.0	No	1	03/31/05
PENNSUCO	807164	998	188	3	0	1189	9	94	23.0	No	1	06/30/05
DEAUVILLE	801937	842	85	8	0	733	8	82	41.0	Yes	2	08/24/04
WINDMILL	708061	734	104	14	0	852	8	45	6.0	No	0	08/30/05
ROSS	408165	2485	171	22	0	2678	7	117	47.0	No	0	02/01/05
BUCKEYE	505882	2302	98	29	0	2427	7	114	32.0	Yes	1	01/20/05
BRANDON	808832	1711	182	1	0	1894	7	75	30.0	Yes	2	06/01/05
HOLY CROSS	701933	1375	522	4	0	1901	7	68	28.0	No	0	02/28/05
40TH ST	600938	435	44	0	0	479	7	43	22.0	No	0	08/01/05
DRIFTWOOD	702033	2181	145	4	0	2330	7	38	16.0	No	0	08/04/04
REGIS	106363	744	147	28	0	920	7	33	13.0	No	0	10/18/04
FLAGLER BEACH	101484	1740	228	20	0	1988	6	213	39.0	No	1	05/01/04
CRANE	407162	1442	378	27	0	1847	6	208	39.0	No	0	12/15/04
SWEATT	400381	794	258	22	0	1074	6	198	88.0	Yes	1	03/10/05
NEWTON	810368	1278	154	1	0	1431	6	183	53.0	No	0	03/03/05
PENNSUCO	807161	87	208	3	0	298	6	179	49.0	No	0	12/28/04
WESTON VILLAGE	807831	1487	39	3	0	1509	6	163	42.0	Yes	1	08/01/05
LITTLE RIVER	800635	554	165	3	0	722	6	159	18.0	No	1	04/08/04
FLAGLER BEACH	101481	1188	511	10	0	1687	6	151	37.0	Yes	1	08/30/05
GLENDALE	407561	2060	348	18	0	2428	6	117	42.0	No	1	05/01/05
ROCK ISLAND	701832	2271	121	6	0	2398	6	112	25.0	No	0	11/30/04
MICCO	203433	1538	233	8	0	1779	6	104	32.0	No	1	04/29/05
LINTON	401931	1713	382	18	0	2123	6	90	28.0	Yes	2	08/10/04
OPA LOCKA	801231	1375	240	7	0	1622	6	85	16.0	No	0	09/30/05
MIAMI SHORES	803431	898	52	0	0	750	6	10	5.0	No	0	09/30/05
BELLE GLADE	400934	1183	287	3	0	1473	5	380	18.0	No	1	6/3/05
BUCKEYE	505884	1083	85	20	0	1188	5	230	108.0	No	0	04/01/05
PORT MAYACA	402761	131	82	1	0	194	5	194	97.0	No	0	10/01/05
ANHINGA	811381	874	229	11	0	1114	5	175	39.0	No	0	02/02/05
PORT	701433	368	485	5	0	838	5	174	8.0	No	1	08/30/05
BOYNTON	400533	845	289	9	0	1143	5	181	27.0	No	1	03/10/04
DEAUVILLE	801840	1233	82	3	0	1318	5	127	18.0	No	0	10/01/04
QUANTUM	407931	2934	161	10	0	3105	5	118	13.0	No	0	03/19/04
WILLOW	103832	1817	64	12	0	1893	5	103	40.0	No	0	08/30/05
BIRD	808937	979	169	1	0	1149	5	89	12.0	No	1	07/30/04
ST JOE	102368	2070	383	14	0	2487	5	80	20.0	Yes	1	08/30/04
SOUTH BAY	403832	1013	152	4	0	1169	5	75	84.0	No	0	8/31/05
HOMESTEAD	803233	3164	77	2	0	3243	5	75	48.0	No	0	11/30/04
GRANT	208762	1817	123	20	0	1960	5	74	52.0	No	0	03/08/05
JENSEN	403432	1682	231	5	0	1888	5	69	49.0			11/22/04
FAIRMONT	700736	1284	104	2	0	1370	5	84	18.0	No	1	01/25/05
LINDGREN	808270	2348	184	0	0	2510	5	80	22.0	No	0	03/30/05
RIVERSIDE	800538	1515	80	0	0	1595	5	57	39.0	No	0	08/30/05
STONEBRIDGE	704761	2409	188	5	0	2612	5	44	30.0	No	0	07/29/04
VANDERBILT	506767	2045	251	52	0	2348	5	38	19.0			08/31/05
GENEVA	205381	780	71	14	0	845	5	4	3.0	No	0	08/11/04
IONA	501782	2089	377	8	0	2472	4	323	73.0			08/01/05
GLADEVIEW	802233	119	148	0	0	265	4	280	52.0			08/01/05
AUBURN	505764	1628	389	34	0	1931	4	212	21.0	No	0	04/01/05
AVOCADO	810082	1050	356	25	0	1431	4	209	61.0	Yes	2	03/30/05
PAHOKEE	400833	761	188	7	0	954	4	198	44.0	No	1	07/02/04
SOUTH VENICE	503432	838	485	0	0	1323	4	184	74.0	No	0	02/03/05
SEBASTIAN	405782	2585	441	2	0	3008	4	177	42.0	No	0	10/01/04
WYOMING	207382	2191	80	9	0	2280	4	175	47.0	No	1	04/28/05
BEVERLY	700832	1318	193	2	0	1513	4	169	32.0	Yes	1	08/12/04
CLINTMOORE	405487	1484	112	18	0	1594	4	163	56.0	No	0	03/28/04
RIVIERA	403134	1424	289	4	0	1717	4	161	48.0			03/01/05
HOLY CROSS	701937	1005	81	5	0	1071	4	158	58.0	No	0	10/31/04
SHERMAN	406061	1347	254	20	0	1621	4	158	66.0	No	0	12/12/04
COVE	408284	3586	183	12	0	3741	4	150	13.0	No	0	12/31/04
HAINLIN	808438	327	200	14	0	541	4	148	18.0	Yes	3	04/11/05
MIRAMAR	802131	1083	557	4	0	1654	4	148	51.0	No	0	08/01/05
BISCAYNE	801839	1981	131	2	0	1984	4	133	48.0	No	1	08/30/05
SEABOARD	803833	240	188	0	0	428	4	131	28.0	No	1	11/30/04
BASSCREEK	708383	3101	74	3	0	3178	4	130	24.0	No	0	08/12/04
MILITARY TRAIL	403034	1589	207	7	0	1783	4	124	50.0	No	0	07/23/04
ELY	702838	159	8	0	0	167	4	123	14.0	No	0	05/31/05
SUNILAND	806535	908	25	19	0	952	4	122	48.0	No	0	12/22/04
FLEMING	102436	1013	100	4	0	1117	4	121	42.0	No	0	08/01/04
CITY POINT	201633	1548	241	9	0	1788	4	118	47.0	No	0	03/11/04
GREYNOLDS	802531	730	308	1	0	1039	4	115	20.0	No	0	08/30/05
HIALEAH	800738	976	247	2	0	1225	4	113	13.0	No	0	12/31/05
NATOMA	806238	1488	123	3	0	1812	4	111	64.0	No	1	06/01/05
PORT SEWALL	404837	2140	93	43	0	2276	4	109	77.0	No	0	03/01/05
MOFFETT	704131	2122	495	2	0	2619	4	109	22.0	No	0	05/30/05
SEBASTIAN	405783	1200	471	6	0	1677	4	108	84.0	No	0	04/15/05
COLUMBIA	301138	405	28	9	0	442	4	107	61.0	No	0	8/10/2004
LAKE PARK	403932	2025	378	3	0	2404	4	102	35.0	No	0	01/21/05
SNAPPER CREEK	808834	788	102	21	0	911	4	100	32.0	No	0	01/05/05
SANFORD	200133	2462	232	4	0	2698	4	84	64.0	No	0	10/27/04
OLYMPIA	401764	933	102	60	0	1095	4	84	39.0	No	1	05/01/05
SWEETWATER	809781	1089	16	6	0	1111	4	94	38.0	No	0	08/30/05
VANDERBILT	506785	2807	182	38	0	3025	4	82	27.0	No	0	09/30/05
BOCA TRCA	404234	2296	72	11	0	2379	4	80	65.0	No	1	11/23/04
ABERDEEN	408882	4195	204	7	0	4408	4	78	42.0	Yes	1	04/02/05
MERCHANDISE	807238	0	40	0	0	40	4	75	48.0	No	0	08/30/05



February 15, 2005

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

05 FEB 16 AM 9:32  
ECONOMIC REGULATION

Dear Mr. Devlin:

Attached is the 2004 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](mailto:mcutshaw@fpuc.com).

Sincerely,

P. Mark Cutshaw  
Director, Northwest Florida

cc: Chuck Stein  
Mario Lacaci  
Don Myers  
Jorge Puentes  
Jim Breman - FPSC



**ANNUAL DISTRIBUTION RELIABILITY REPORT 2004**  
**Attachment 1 CALCULATIONS**

	<u>Northeast Division</u>	<u>Northwest Division</u>	<u>FPUC</u>
<b>SAIDI = System Average Interruption Duration Index</b>			
= <u>Sum of All Customer Minutes Interrupted (CMI)</u>	2,216,323	1,524,317	3,740,640
Total number of Customers Served (C)	14,566	12,528	27,094
<b>CAIDI = Customer Average Interruption Duration Index</b>			
= <u>Sum of All Customer Minutes Interrupted (CMI)</u>	2,216,323	1,524,317	3,740,640
Total number of Customers Interruptions (CI)	16,723	18,081	34,804
<b>SAIFI = System Average Interruption Frequency Index</b>			
= <u>Total number of Customers Interruptions (CI)</u>	16,723	18,081	34,804
Total number of Customers Served (C)	14,566	12,528	27,094
<b>L-BAR</b>			
<u>Total Minutes of Interruption</u>	31,502	41,058	72,560
Total Number of Outages	328	610	938

Primary Causes of Outage Events

Utility Name: FLORIDA PUBLIC UTILITIES CO.

Year 2004

Cause (a)	Number of Outage Events(N) (b)	Average Duration (L-Bar) (c)	Average Restoration Time (CAIDI) (d)
1. VEGETATION	216	79.75	73.36
2. LIGHTNING	208	80.64	202.20
3. ANIMAL	164	47.51	37.29
4. UNKNOWN	113	54.79	137.63
5. CORROSION	53	114.89	129.19
6. OTHER WEATHER	49	123.65	90.17
7. TRANSFORMER FAILURE	27	160.52	173.01
8. CUTOUT FAILURE	26	70.88	61.49
9. FUSE FAILURE	21	49.33	57.33
10. VEHICLES	16	91.31	160.94
All Other Causes	45	85.53	56.10
System Totals	938	77.35	107.47

Service Reliability Indices

Utility Name FLORIDA PUBLIC UTILITIES CO.

Year: 2004

District or Service Area (a)	SAIDI (b)	CAIDI (c)	SAIFI (d)	MAIFle (e)	CEMI5 (f)
NW. FL. DIVISION	121.67	84.30	1.44	N/A	N/A
NE. FL. DIVISION	152.16	132.53	1.15	N/A	N/A
System Averages	138.06	107.47	1.28	N/A	N/A

3 Percent Feeder List

Utility Name: FLORIDA PUBLIC UTILITIES CO.

Year 2004

Primary Circuit Id. No.	Sub- stati on	Location	Number of Customers				Total	Outage Events	Avg Durati on	CAIDI	Listed Last Year?	No. of Years in the	Correctiv e Action Completion
			Resident	Commertia	Industr	Other							
9882	BLOUN TSTOW N	Bristol/ Blountst own	804	32	0	0	836	6	57.69	77.92	YES	2	8/1/04
209	J.L. TERRY	Fifteen St.	550	60	0	0	610	1	35.00	35.00	NO	0	N/A

**Susan D. Ritenour**  
Secretary and Treasurer  
and Regulatory Manager

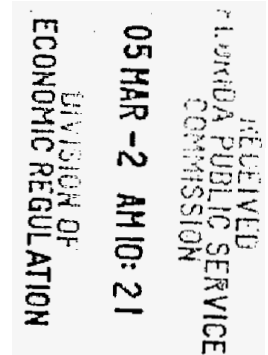
One Energy Place  
Pensacola, Florida 32520-0781

Tel 850.444.6231  
Fax 850.444.6026  
SDRITENO@southernco.com



February 24, 2005

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



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".

db

Attachment



Utility Name: Gulf Power Company      Year: 2004

District or Service Area (a)	SAIDI (b)	CAIDI (c)	SAIFI (d)	MAIFle (e)	CEM15 (f)
Central	75.44	100.79	0.749	6.36	0.39%
Eastern	68.53	105.38	0.650	5.28	0.39%
Western	115.28	108.00	1.067	8.88	1.24%
System Averages	93.33	105.93	0.881	7.33	0.81%

PSC/ECR 102-3 (11/2002)

3 Percent Feeder List

Utility Name: Gulf Power Company Year: 2004

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)						
5382	Molino	Western	1625	193	1	0	1819	3	88.67	76.21	N	0	11/1/2004
5512	Beulah	Western	1391	75	0	0	1466	3	51.33	78.65	N	0	12/31/2005
5942	Live Oak	Western	770	45	0	0	815	3	35.00	34.70	N	0	11/23/2004
7172	Pace	Western	1928	130	0	0	2058	3	23.67	23.68			7/18/2004
9292	Ocean City	Central	1409	161	0	0	1570	3	138.33	134.30	N	0	11/17/2004
8282	Parker	Eastern	2732	117	0	0	2849	3	50.00	53.75	N	0	7/27/2004
5992	Cordova	Western	1719	55	1	0	1775	2	105.50	122.50			9/2/2004
	Devilliers	Western	1537	121	1	0	1659	2	109.50	109.32	N	0	12/14/2004

Primary Causes of Outage Events			
Utility Name: Gulf Power Company      Year 2004			
Cause (a)	Number of Outage Events(N) (b)	Average Duration (L-Bar) (c)	Average Restoration Time (CAIDI) (d)
1. Animal	2012	80.56	78.22
2. Deterioration	1611	161.56	133.22
3. Lightning	1541	151.26	139.78
4. Unknown	1390	135.69	89.79
5. Trees	1193	129.04	86.52
6. Vehicle	303	161.91	152.76
7. Overload	212	125.11	104.48
8. Other	121	123.72	81.23
9. Wind/Rain	118	124.71	103.68
10. Vines	117	97.62	83.54
All Other Causes	264	136.19	62.46
System Totals	8882	129.55	105.93

**ANNUAL DISTRIBUTION RELIABILITY REPORT 2004**

**Gulf Power Company**

	CENTRAL		EASTERN		WESTERN		SYSTEM	
<b>SAIDI = System Average Interruption Duration Index</b>								
<u>Total Number of Customer Minutes of Interruption (CMI)</u>	7,786,795		6,705,892		22,445,569		36,938,256	
<u>Total Number of Customers Served (C)</u>	103,220	75.44	97,849	68.53	194,705	<b>115.26</b>	395,774	93.33
<b>CAIDI = Customer Average Interruption Duration Index</b>								
<u>Total Number of Customer Minutes of Interruption (CMI)</u>	7,786,795		6,705,892		22,445,569		36,938,256	
<u>Total Number of Customer Interruptions (CI)</u>	77,257	100.79	63,633	105.38	207,829	108.00	348,719	105.93
<b>SAIFI = System Average Interruption Frequency Index</b>								
<u>Total Number of Customer Interruptions (CI)</u>	77,257		63,633		207,829		348,719	
<u>Total Number of Customers Served (C)</u>	103,220	0.749	97,849	0.650	194,705	1.067	395,774	0.881
<b>MAIFI<sub>6</sub> = Momentary Average Interruption Frequency Index</b>								
<u>Total Number of Customer Momentary Interruption Events (CME)</u>	656,865		516,932		1,728,265		2,902,062	
<u>Total Number of Customers Served (C)</u>	103,220	6.36	97,849	5.28	194,705	8.88	395,774	7.33
<b>CEMI5 = Customers Experiencing More Interruptions than 5</b>								
<u>Number of Customers Experiencing More interruptions than 5</u>	404		384		2,407		3,195	
<u>Total Number of Customers Served (C)</u>	103,220	0.39%	97,849	0.39%	194,705	1.24%	395,774	0.81%
<b>L-Bar</b>								
<u>Minutes of Interruption</u>							1,150,637	
<u>Total Number of Outages</u>							8,882	129.55



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

February 22, 2005

VIA ELECTRONIC FILING

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

05 FEB 23 11 09 AM '05  
REGISTRATION DIVISION

Re: Annual Distribution Service Reliability Report for 2004

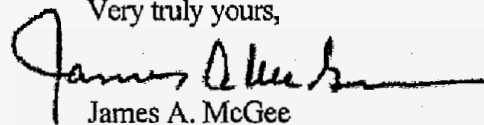
Dear Ms. Bayó:

Enclosed for filing on behalf of Progress Energy Florida, Inc., in accordance with Rule 25-6.0455, F.A.C., is the subject report. As noted in the report, the reliability indices contained therein are subject to possible revision based on the Commission's pending disposition of Progress Energy's request to exclude an outage event from the report in Docket No. 050060-EI.

This letter and the enclosed report will also serve to notify the Commission that Progress Energy has satisfied its commitment to achieve a 20 percent improvement in its System Average Interruption Duration Index (SAIDI) for calendar year 2004, as provided for in the Stipulation and Settlement approved by Commission Order No. PSC-92-0655-AS-EI in Docket No. 000824-EI. The 20 percent reliability improvement target established by the Stipulation and Settlement equates to a SAIDI value of 80.2 minutes. As calculated by the enclosed report, Progress Energy's actual SAIDI for 2004 is 77.0 minutes. The satisfaction of Progress Energy's reliability improvement commitment will not be altered by the outcome of Docket No. 050060-EI, since the only effect that proceeding could have on the Company's actual 2004 SAIDI results, if any, would be a further reduction, *i.e.*, improvement, of the value currently calculated by the enclosed report.

Please acknowledge your receipt of the above filing as provided in the Commission's electronic filing procedures. Thank you for your assistance in this matter.

Very truly yours,

  
James A. McGee

JAM/scc  
Enclosures

cc: Mr. Tim Devlin  
Harold McLean, Esquire



**Progress Energy**

**Annual Distribution Service  
Reliability Report for 2004**

**February 21, 2005**

Progress Energy Florida

**ANNUAL DISTRIBUTION SERVICE RELIABILITY REPORT - 2004\***

**SAIDI = System Average Interruption Duration Index**

$$= \frac{\text{Sum of All Customer Minutes Interrupted (CMI)}}{\text{Total number of Customers Served (C)}} = \frac{118,613,077}{1,541,402} = 77.0 \text{ (SAIDI)}$$

**CAIDI = Customer Average Interruption Duration Index**

$$= \frac{\text{Sum of All Customer Minutes Interrupted (CMI)}}{\text{Total number of Customers Interruptions (CI)}} = \frac{118,613,077}{1,833,205} = 64.7 \text{ (CAIDI)}$$

**SAIFI = System Average Interruption Frequency Index**

$$= \frac{\text{Total number of Customers Interruptions (CI)}}{\text{Total number of Customers Served (C)}} = \frac{1,833,205}{1,541,402} = 1.19 \text{ (SAIFI)}$$

**MAIFIe = Momentary Average Interruption Event**

$$= \frac{\text{Sum of All Customer Momentary Interruption Events (CME)}}{\text{Total number of Customers Served (C)}} = \frac{14,979,132}{1,541,402} = 9.7 \text{ (MAIFIe)}$$

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

$$= \frac{4,280,855}{38,249} = 111.9 \text{ (LBAR)}$$

Distribution Service Reliability Indices Data						
District or Service Area	# Customers Served (C)	# Interruptions (N)	Customer Minutes of Interruption (CMI)	Customers Interrupted (CI)	Customer Momentary Interruption Events (CME)	# Customers Interrupted >5
North Coastal	176,744	7,357	23,319,520	290,469	1,042,233	8,416
South Coastal	638,170	12,583	42,339,052	697,630	8,280,132	7,277
North Central Florida	366,161	10,054	28,355,081	448,411	2,663,853	3,674
South Central Florida	360,327	8,255	24,599,424	396,695	2,993,208	1,681
System Total	1,541,402	38,249	118,613,077	1,833,205	14,979,426	21,048

\* The reliability indices in this report are subject to revision based on the disposition of Progress Energy's outage exclusion request pending in Docket No. 050060-EI.

## Distribution Service Reliability Report

<b>Distribution Service Reliability Indices</b>					
<b>Progress Energy Florida</b>			<b>Year: 2004</b>		
District or Service Area (a)	SAIDI (b)	CAIDI (c)	SAIFI (d)	MAIFIE (e)	CEMIS (f)
North Coastal	131.9	80.3	1.22	5.9	4.76%
South Coastal	66.3	60.7	1.09	13.0	1.14%
North Central Florida	77.4	63.2	1.22	7.3	1.00%
South Central Florida	68.2	62.0	1.10	8.3	0.47%
System	77.0	64.7	1.19	9.7	1.37%



**Distribution Service Reliability Report**

<b>Primary Causes of Outage Events</b>			
<b>Progress Energy Florida</b>			<b>Year: 2004</b>
CAUSE (a)	Number of Outage Events (N) (b)	Average Duration (L-Bar) (c)	Average Restoration Time (CAIDI) (d)
STORM	4,208	106	81.1
TREE-PREVENTABLE	4,546	113	71.2
ANIMAL(and Birds)	5,422	58	54.6
UNKNOWN	4,362	73	65.1
UG SECONDARY/SERV	3,450	156	182.0
DEFECTIVE EQUIP.	3,289	165	62.2
CONNECTR FAILURE	2,830	95	70.1
TREE-NONPREVENT	2,247	116	65.5
UG PRIMARY CABLE	2,323	176	80.9
-----	2,287	125	73.0
All Other Causes	3,285	107	47.3
System Totals	38,249	112	64.7

**LBAR and CAIDI include all devices.**

Distribution Service Reliability Report

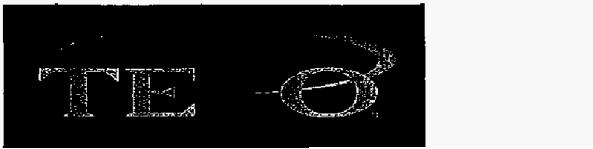
Three Percent Feeder List

Progress Energy Florida

Year: 2004

Primary Circuit ID (a)	Substation on Origin (b)	Location (c)	Number of Customers					Breaker Outage Events "N" (j)	Avg Duration or "L-Bar" (i)	CAIDI (k)	Listed Last Year? (l)	No. of Years in the last 5 (1999 - 2003) (m)	Corrective Action Completion Date (n)
			Residential (d)	Commercial (e)	Industrial (f)	Other (g)	Total (h)						
X259	Pilsbury	St. Petersburg	2,431	66	0	10	2,507	7	112.2	53.0	No	0	6/30/2005
N1	Madison	Monticello	945	148	0	20	1,113	6	64.3	47.2	No	0	8/31/2005
A74	Beverly Hills	Inverness	2,087	239	0	14	2,340	5	111.9	49.7	No	0	6/30/2005
C12	Clearwater	Clearwater	1,635	402	4	48	2,089	5	130.2	49.5	No	1	6/30/2005
C4	Clearwater	Clearwater	1,165	120	1	21	1,307	5	145.8	43.2	No	0	9/30/2005
C910	East Clearwater	Clearwater	1,276	656	21	33	1,986	4	84.2	37.1	No	0	6/30/2005
K17	Haines City	Lake Wales	1,408	166	1	49	1,624	4	120.5	34.4	No	0	9/30/2005
K3220	Desoto	Highlands	1,043	275	3	34	1,355	4	82.1	41.2	No	0	8/31/2005
K3245	Dundee	Lake Wales	1,106	146	0	73	1,325	4	91.5	36.7	No	0	6/30/2005
M3	Madison	Monticello	1,220	197	0	34	1,451	4	56.1	46.1	No	0	8/31/2005
W0324	Econ	Jamestown - Orlando	2,988	123	0	15	3,126	4	133.1	41.2	No	0	9/30/2005
X132	Crossroads	St. Petersburg	622	148	5	12	787	4	116.1	38.0	No	1	6/30/2005
A154	Silver Springs	Ocala	1,435	203	0	13	1,651	3	93.0	46.5	No	0	8/31/2005
A195	Archer	Monticello	1	0	2	0	3	3	50.7	50.7	Yes	1	6/30/2005
A231	Santos	Ocala	1,381	30	0	1	1,412	3	108.6	54.7	No	0	8/31/2005
A35	Reddick	Ocala	444	142	5	11	602	3	106.2	70.2	No	3	6/30/2005
C17	Clearwater	Clearwater	2,585	185	2	33	2,805	3	108.1	39.5	Yes	1	9/30/2005
C441	New Port Richey	Seven Springs	2,959	168	2	7	3,136	3	148.0	75.4	No	0	9/30/2005
J408	Largo	Clearwater	1,099	233	27	2	1,361	3	96.0	34.3	No	0	9/30/2005
K1287	Lake Marion	Lake Wales	1,653	119	0	11	1,783	3	112.3	46.3	No	0	9/30/2005
K72	Bay Hill	Buena Vista	1,236	41	0	9	1,286	3	206.1	49.3	No	0	9/30/2005
K883	Lake Wil	Buena Vista	2,206	85	0	10	2,301	3	155.3	46.7	No	1	6/30/2005
M908	Fern Park	Longwood	342	127	13	6	488	3	118.8	44.5	No	0	9/30/2005
N15	Perry North	Monticello	786	135	5	24	950	3	102.0	55.8	No	0	9/30/2005
N58	Apalachicola	Monticello	600	212	14	47	873	3	97.5	31.1	No	1	9/30/2005
W0121	Deltona	Deland	2,133	67	2	24	2,226	3	107.5	34.5	No	0	12/31/2005
W0930	Winter Park	Jamestown	823	745	30	5	1,603	3	142.6	36.9	No	0	12/31/2005
W1701	Lake Helen	Deland	1,508	137	1	24	1,670	3	78.7	34.7	No	0	12/31/2005
W1	Bellview	Ocala	2,085	387	5	37	2,514	2	110.9	67.4	No	0	12/31/2005
W124	Williston	Inverness	1,340	113	0	2	1,455	2	136.2	122.5	No	0	12/31/2005
W263	Tangerine	Inverness	1,997	224	6	58	2,285	2	141.1	113.9	No	1	12/31/2005
W103	Dunedin	Clearwater	2,781	170	0	38	2,989	2	125.0	71.7	No	0	12/31/2005
W154	Denham	Seven Springs	664	131	0	12	807	2	116.9	130.6	No	0	12/31/2005
W394	Seminole	Clearwater	4,536	477	2	46	5,061	2	112.8	51.5	No	0	12/31/2005
W285	NorthEast	St. Petersburg	3,420	213	0	7	3,640	2	157.3	68.9	No	0	12/31/2005

LBAR and CAIDI include all devices.



TAMPA ELECTRIC

March 1, 2005

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 2004.

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)

TAMPA ELECTRIC COMPANY  
P. O. BOX 111 TAMPA, FL 33601-0111

AN EQUAL OPPORTUNITY COMPANY  
HTTP://WWW.TAMPAELECTRIC.COM

(813) 228-41

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

02052 MAR-1 05  
COMMISSION CLERK



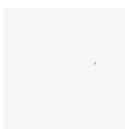
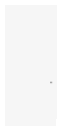
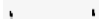
2004 DISTRIBUTION SERVICE  
RELIABILITY REPORT  
TO THE  
FLORIDA PUBLIC SERVICE COMMISSION  
AS DESCRIBED IN RULE 25-6.0455

**ANNUAL DISTRIBUTION RELIABILITY REPORT - 2004**

Utility Name: Tampa Electric

<b>SAIDI: System Average Interruption Duration Index</b>		
= <u>Sum of All Customer Minutes Interrupted (CMI)</u>	<u>45,583,413</u>	72.63
Total number of Customers Served (C)	627,620	
 <b>CAIDI: System Average Interruption Duration Index</b>		
= <u>Sum of All Customer Minutes Interrupted (CMI)</u>	<u>45,583,413</u>	75.26
Total number of Customer Interruptions (CI)	605,663	
 <b>SAIFI: System Average Interruption Frequency Index</b>		
= <u>Total number of Customer Interruptions (CI)</u>	<u>605,663</u>	0.97
Total number of Customers Served (C)	627,620	
 <b>MAIFle: Momentary Average Interruption Event</b>		
= <u>Sum of All Customer Momentary Interruption Events (CME)</u>	<u>12,131,948</u>	19.33
Total number of Customers Served (C)	627,620	
 <b>LBar:</b>		
= <u>Minutes of Interruption</u>	<u>1,966,431</u>	178.07
Total number of Outages	11,043	

District	C	CMI	CI	CME	# Cust > 5
Central	171,187	12,268,374	143,226	2,791,781	2,008
Dade City	13,000	2,009,533	25,288	434,408	2,060
Eastern	98,326	7,229,994	100,161	2,032,406	3,511
Plant City	50,032	5,005,819	79,180	1,313,962	7,229
South Hillsborough	49,271	4,213,869	65,553	1,312,365	1,817
Western	182,791	10,459,262	126,975	2,774,812	810
Winter Haven	63,013	4,396,562	65,280	1,472,214	3,252
<b>System Totals</b>	<b>627,620</b>	<b>45,583,413</b>	<b>605,663</b>	<b>12,131,948</b>	<b>20,687</b>



**THREE PERCENT  
HIGHEST INTERRUPTED  
DISTRIBUTION CIRCUITS**

3 Percent Feeder List

Year: 2004

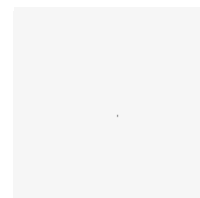
Utility Name: Tampa Electric

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)						
CB 13388	Kirkland	Plant City	402	29	3		434	9	28.44	28.44	No	1	Infrared Patrol 6/30/05
CB 13808	Knights	Plant City	1,682	155	9		1,846	7	40.71	40.73	No	1	Infrared Patrol 6/30/05
CB 13007	Mulberry	Plant City	340	153	61		554	5	45.80	45.24	No	1	Infrared Patrol 9/30/05
CB 13442	Lake Region	Winter Haven	1,573	55	7		1,635	5	26.80	26.51	No	0	Infrared Patrol 6/30/05; Tree Trim 07/04
CB 13906	Peach Avenue	Eastern	1,163	156	43		1,362	5	53.40	53.24	No	1	Infrared Patrol 6/30/05
CB 13910	Peach Avenue	Eastern	934	56	3		993	5	51.00	51.12	Yes	4	Infrared Patrol 6/30/05
CB 13148	Hopewell	Plant City	663	45	9		717	4	32.75	32.79	No	0	Infrared Patrol 9/30/05; Tree Trim 12/04
CB 13302	Sun City	South Hillsborough	1,450	34	11		1,495	4	39.25	37.18	No	0	Infrared Patrol 6/30/05
CB 13310	E. Winter Haven	Winter Haven	282	177	32		491	4	70.50	67.92	No	0	Infrared Patrol 6/30/05
CB 13576	South Seffner	Eastern	1,549	33	1		1,583	4	45.50	45.48	No	2	Infrared Patrol 9/30/05
CB 13679	Turkey Ford	Western	979	47	3		1,029	4	32.00	31.45	No	0	Infrared Patrol 6/30/05
CB 13799	St. Cloud	Eastern	1,400	36	3		1,439	4	44.75	44.75	No	0	Infrared Patrol 9/30/05; Tree Trim 12/04
CB 13813	Blanton	Dade City	1,175	108	5		1,288	4	23.00	22.42	No	0	Infrared Patrol 6/30/05
CB 13909	Peach Avenue	Eastern	827	172	33		1,032	4	45.25	45.42	No	0	Infrared Patrol 9/30/05; Tree Trim 12/04
CB 13927	Lake Gum	Winter Haven	1,493	114	16		1,623	4	91.50	90.97	Yes	2	Infrared Patrol 9/30/05
CB 14040	Hamy Rd	Central	2,046	129	29		2,204	4	55.00	52.51	No	0	Infrared Patrol 6/30/05
CB 13829	Fowler Avenue	Central	778	60	5		843	3	136.33	171.13	No	0	Infrared Patrol 6/30/05
CB 13029	Temple Terrace	Central	1,044	76	32		1,152	3	101.33	101.48	No	0	Infrared Patrol 9/30/05
CB 13947	Yukon	Central	1,185	31	7		1,223	3	79.67	79.75	No	0	Infrared Patrol 9/30/05; Tree Trim 12/04
CB 13008	Mulberry	Plant City	333	67	25		425	3	77.67	66.01	No	0	Infrared Patrol 9/30/05
CB 13512	George Road	Western	2,863	188	21		3,072	3	104.67	62.13	No	0	Infrared Patrol 6/30/05

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: 2004
Cause (a)	Number of Outages Events (N) (b)	Average Duration (L-Bar) (c)	Average Restoration Time (CAIDI) (d)
1. Lightning	2,283	246.02	121.64
2. Animals	2,083	93.31	65.64
3. Vegetation	1,880	201.55	72.96
4. Unknown	1,335	146.11	65.32
5. Electrical	955	179.70	76.53
6. Other Weather	911	187.15	76.78
7. Bad Connection	694	179.18	93.22
8. Vehicle	235	168.87	47.72
9. Human Interference	222	192.81	37.04
10. Defective Equipment	210	207.29	118.24
All Remaining Causes	235	187.00	53.78
System Totals	11,043	178.07	75.26

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: 2004	
District or Service Area (a)	SAIDI (b)	CAIDI (c)	SAIFI (d)	MAIFie (e)	CEMI5 (f)
Central	71.67	85.66	0.83666	16.31	1.17%
Dade City	154.58	79.47	1.94523	33.42	15.84%
Eastern	73.53	72.18	1.01866	20.67	3.57%
Plant City	100.05	63.22	1.58259	26.26	14.45%
South Hillsborough	85.52	64.28	1.33046	26.64	3.69%
Western	57.22	82.37	0.69465	15.18	0.44%
Winter Haven	69.77	67.35	1.03598	23.36	5.16%
System	72.63	75.26	0.96502	19.33	3.30%

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

Notes:

SAIDI and CAIDI are expressed in minutes