

March 1, 2004

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

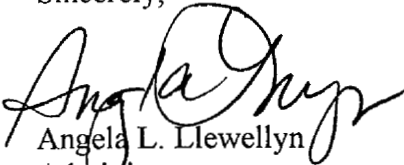
Re: Florida Administrative Code, Rule 25-6.0455, Annual Distribution Service Reliability Report

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 2003.

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](http://www.tampaelectric.com)

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(813) 228-4111

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



2003 DISTRIBUTION SERVICE  
RELIABILITY REPORT  
TO THE  
FLORIDA PUBLIC SERVICE COMMISSION  
AS DESCRIBED IN RULE 25-6.0455

**ANNUAL DISTRIBUTION RELIABILITY REPORT - 2003**

Utility Name: Tampa Electric

<b>SAIDI: System Average Interruption Duration Index</b>		
= <u>Sum of All Customer Minutes Interrupted (CMI)</u>	<u>43,527,993</u>	70.87
Total number of Customers Served (C)	614,181	
 <b>CAIDI: System Average Interruption Duration Index</b>		
= <u>Sum of All Customer Minutes Interrupted (CMI)</u>	<u>43,527,993</u>	67.50
Total number of Customer Interruptions (CI)	644,862	
 <b>SAIFI: System Average Interruption Frequency Index</b>		
= <u>Total number of Customer Interruptions (CI)</u>	<u>644,862</u>	1.05
Total number of Customers Served (C)	614,181	
 <b>MAIFle: Momentary Average Interruption Event</b>		
= <u>Sum of All Customer Momentary Interruption Events (CME)</u>	<u>10,952,990</u>	17.83
Total number of Customers Served (C)	614,181	
 <b>LBar:</b>		
= <u>Minutes of Interruption</u>	<u>1,861,687</u>	151.74
Total number of Outages	12,269	

District	C	CMI	CI	CME	# Cust > 5
Central	168,119	10,012,967	135,074	2,384,171	6,411
Dade City	12,644	1,639,936	27,703	380,792	1,869
Eastern	95,517	5,924,385	109,171	1,613,292	943
Plant City	48,885	5,868,408	89,234	1,181,600	4,084
South Hillsborough	45,837	4,129,847	55,369	1,157,885	3,338
Western	181,164	11,917,145	156,217	3,141,462	949
Winter Haven	62,015	4,035,305	72,094	1,093,788	961
<b>System Totals</b>	<b>614,181</b>	<b>43,527,993</b>	<b>644,862</b>	<b>10,952,990</b>	<b>18,555</b>

THREE PERCENT  
HIGHEST INTERRUPTED  
DISTRIBUTION CIRCUITS

## 3 Percent Feeder List

Year: 2003

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)	Commencal (e)	Industrial (f)	Other (g)	Total (h)						
CB_13390	Kirkland	Plant City	1,516	205	13		1,734	10	42.10	43.58	No	0	Replaced 9/10/03; Damaged Tree Trim completed 2/04
CB_13331	Dade City	Dade City	908	151	16		1,075	7	32.71	32.83	No	1	Replaced 10/29/03; Damaged Arresters
CB_13786	Pinecrest	Plant City	686	80	10		776	6	44.50	44.53	No	0	Replaced 10/9/03; Currently Tree Trimming, Approximately 40% complete
CB_13183	11th Avenue	Central	233	149	49		431	5	39.20	39.08	No	0	Replaced 1/15/04; Damaged Arresters Hot Spot Tree Trim 2/04
CB_13198	Gray Street	Western	800	128	16		944	5	29.40	29.43	No	0	Tree trim all completed 1/04, except for 1 Palm tree
CB_13919	Lake Ruby	Winter Haven	90	4	1		95	5	29.60	29.28	No	0	
CB_13546	Maritime	Central	297	76	52		425	4	46.25	46.12	No	1	Hot Spot Tree Trim '03
CB_13817	Ruskin	South Hillsborough	967	134	11		1,112	4	40.25	39.10	No	0	Replaced 10/27/03; Damaged Arresters
CB_13687	Pearson Road	Eastern	1,347	46	6		1,399	4	38.75	34.28	No	1	Replaced 11/18/03; Damaged Arresters Currently Hot Spot Tree Trim
CB_13003	Ruskin	South Hillsborough	597	149	25		771	4	38.50	33.79	Yes	2	Replaced 10/27/03; Damaged Arresters Hot Spot Tree Trim 11/03
CB_13927	Lake Gum	Winter Haven	1,473	115	16		1,604	4	33.75	33.07	Yes	1	Replaced 1/7/04; Damaged Arresters Tree trim completed 10/03
CB_13493	Jackson Road	Western	607	44	13		664	4	26.50	26.50	No	0	
CB_13091	Plymouth	Central	1,223	163	29		1,415	4	25.25	25.36	No	0	
CB_13910	Peach Avenue	Eastern	1,336	60	7		1,403	4	20.00	20.32	Yes	3	Replaced 9/17/03; Damaged Arresters Tree trim completed 6/03; Hot Spot Tree Trim 10/03
CB_13710	Buckhorn	Eastern	1,879	82	6		1,967	4	8.25	6.85	No	0	Hot Spot Tree Trim 1/03 - 2/03
CB_13094	Plymouth	Central	659	150	42		851	3	76.00	75.81	No	0	
CB_13624	Wayne Road	Western	993	110	8		1,111	3	67.67	67.62	No	0	Replaced 10/30/03; Damaged Arresters
CB_13815	Blanton	Dade City	464	62	2		528	3	60.33	59.72	No	1	
CB_13305	Sun City	South Hillsborough	492	100	13		605	3	54.00	55.40	No	0	Replaced 10/23/03; Currently Tree Trimming
CB_13290	Lake Silver	Winter Haven	964	82	14		1,060	3	55.00	54.83	No	1	Hot Spot Tree Trim 1/3/04
CB_13328	Dade City	Dade City	428	122	31		581	3	50.33	50.67	Yes	1	Replaced 10/28/03; Damaged Arresters

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: 2003
Cause (a)	Number of Outages Events (N) (b)	Average Duration (L-Bar) (c)	Average Restoration Time (CAIDI) (d)
1. Lightning	2,476	209.97	111.67
2. Animals	2,190	79.24	52.14
3. Vegetation	1,996	163.66	62.82
4. Unknown	1,473	121.84	45.19
5. Electrical	1,098	155.08	76.97
6. Other Weather	1,005	160.08	66.56
7. Bad Connection	829	159.00	99.35
8. Vehicle	345	163.72	54.60
9. Defective Equipment	317	182.34	101.76
10. Down Wire	265	176.92	51.64
All Remaining Causes	275	138.13	37.71
System Totals	12,269	151.74	67.50

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: 2003	
District or Service Area (a)	SAIDI (b)	CAIDI (c)	SAIFI (d)	MAIFle (e)	CEMI5 (f)
Central	59.56	74.13	0.80344	14.36	3.81%
Dade City	129.70	59.20	2.19100	30.36	14.78%
Eastern	62.02	54.27	1.14295	16.99	0.99%
Plant City	120.05	65.76	1.82539	24.12	8.35%
South Hillsborough	90.10	74.59	1.20795	25.48	7.28%
Western	65.78	76.29	0.86230	17.42	0.52%
Winter Haven	65.07	55.97	1.16253	17.72	1.55%
System	70.87	67.50	1.04995	17.95	3.02%

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

Notes:

SAIDI and CAIDI are expressed in minutes