



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

030000-Pu

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

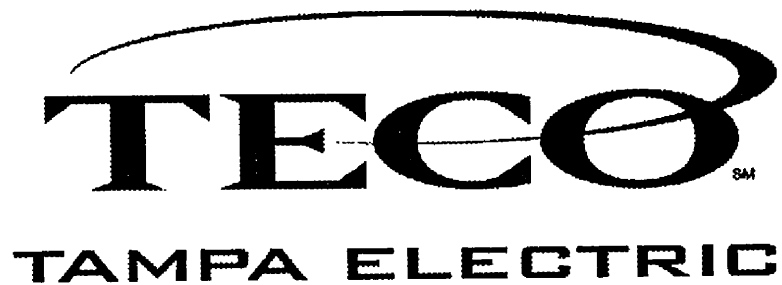
Enclosure

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

DOCUMENT NUMBER-DATE

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FPSC-COMMISSION CLERK



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

<b>SAIDI: System Average Interruption Duration Index</b>		
= <u>Sum of All Customer Minutes Interrupted (CMI)</u>	<u>35,349,788</u>	57.19
Total number of Customers Served (C)	618,161	
<b>CAIDI: System Average Interruption Duration Index</b>		
= <u>Sum of All Customer Minutes Interrupted (CMI)</u>	<u>35,349,788</u>	60.82
Total number of Customer Interruptions (CI)	581,220	
<b>SAIFI: System Average Interruption Frequency Index</b>		
= <u>Total number of Customer Interruptions (CI)</u>	<u>581,220</u>	0.94
Total number of Customers Served (C)	618,161	
<b>MAIFle: Momentary Average Interruption Event</b>		
= <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	
<b>LBar:</b>		
= <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	1,248	56	6		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)	MAIFIe (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-EI, Rule 25-6.0455(c)

Notes:

SAIDI and CAIDI are expressed in minutes