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February 24, 2000

Ms. Blanca Bayo, Director  
Division of Records and Reporting  
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 1999.

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

Sincerely,

Angela L. Llewellyn  
Administrator  
Regulatory Coordination

Enclosure

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

Vertical list of initials: JAG, JAS, JPC, JRR, JEC, JMW, JTH

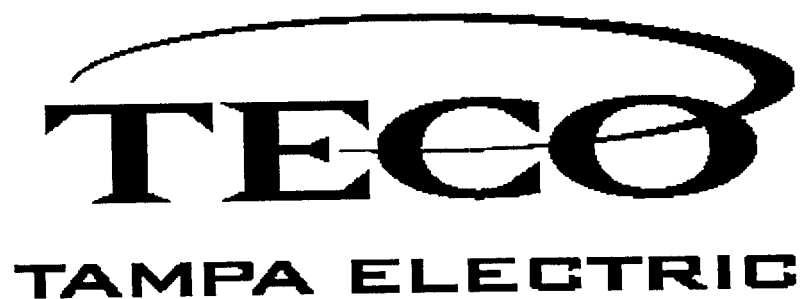
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1999 DISTRIBUTION SERVICE  
RELIABILITY REPORT  
TO THE  
FLORIDA PUBLIC SERVICE COMMISSION  
AS DESCRIBED IN RULE 25-6.0455

# ANNUAL DISTRIBUTION RELIABILITY REPORT 1999

## Tampa Electric

**SAIDI = System Average Interruption Duration Index**

$$= \frac{\text{Sum of All Customer Minutes of Interruption (CMI)}}{\text{Total number of Customers Served (C)}} = \frac{24,782,592}{576,093} = 43.02 \text{ (SAIDI)}$$

**CAIDI = Customer Average Interruption Duration Index**

$$= \frac{\text{Sum of All Customer Minutes of Interruption (CMI)}}{\text{Total number of Customers Interrupted (CI)}} = \frac{24,782,592}{507,931} = 48.79 \text{ (CAIDI)}$$

**SAIFI = System Average Interruption Frequency Index**

$$= \frac{\text{Total number of Customers Interrupted (CI)}}{\text{Total number of Customers Served (C)}} = \frac{507,931}{576,093} = 0.88168 \text{ (SAIFI)}$$

**MAIFle = Momentary Average Interruption Event**

$$= \frac{\text{Sum of All Customer Momentary Interruption Events (CME)}}{\text{Total number of Customers Served (C)}} = \frac{8,535,791}{576,093} = 14.82 \text{ (MAIFle)}$$

As required by Docket No. 920229-EI, Rule 25-6.0455, interruptions by cause are listed below.

Cause	Overhead	Underground	Undetermined	Total
Lightning	2,369	268	N/A	2,637
Other Weather	651	49	N/A	700
Vegetation	887	13	N/A	900
Animals	1,984	104	N/A	2,088
Vehicle	214	84	N/A	298
Dig-In	N/A	20	N/A	20
Unknown	1,299	197	N/A	1,496
Other *				
1. Defective Equipment	669	134	N/A	803
2. Down Wire/Pole	388	19	N/A	407
3. Bad Connection	336	28	N/A	364
All Remaining Outages	297	228	N/A	525
<b>Total</b>	<b>9,094</b>	<b>1,144</b>	<b>0</b>	<b>10,238</b>

\* List the next 3 highest causes for the Utility Reporting.

$$\text{L Bar} = \frac{\text{Minutes of Interruption}}{\text{Total Number of Outages}} = \frac{1,111,244}{10,238} = 108.54 \text{ Minutes}$$

**THREE PERCENT  
HIGHEST INTERRUPTED  
DISTRIBUTION CIRCUITS**

### 3% Worst Performing Feeders

Circuit	Substation	Service Area	Residential Customers *	Commercial Customers *	Industrial Customers *	N	L-Bar
13298	POLK CITY	WINTER HAVEN	829	105	3	7	55.3
13117	LAKE ALFRED	WINTER HAVEN	1,119	97	10	6	23.3
13910	PEACH AVENUE	EASTERN	1,310	58	6	5	6.0
13009	MULBERRY	PLANT CITY	51	75	25	5	44.6
13007	MULBERRY	PLANT CITY	395	178	62	5	40.4
13687	PEARSON ROAD	EASTERN	1,366	82	8	5	40.2
13652	RHODINE ROAD	SOUTH HILLSBOROUGH	1,617	40	10	5	33.8
13405	KEYSTONE	WESTERN	569	133	20	5	26.6
13482	WOODLANDS	WESTERN	1,749	264	37	5	18.8
13872	HENDERSON ROAD	WESTERN	836	14	0	5	15.0
13371	DAIRY ROAD	WINTER HAVEN	953	76	10	4	77.3
13084	ORIENT PARK	EASTERN	96	115	44	4	7.5
13606	MACDILL	WESTERN	679	107	22	4	52.0
13010	MULBERRY	PLANT CITY	1,253	142	32	4	48.0
13214	FAIRGROUNDS	EASTERN	644	125	57	4	38.3
13341	EAST BAY	SOUTH HILLSBOROUGH	1,008	82	20	4	34.0
13178	11TH AVENUE	CENTRAL	50	125	45	4	29.5
13340	EAST BAY	SOUTH HILLSBOROUGH	573	98	22	4	15.3
13153	CYPRESS GARDENS	WINTER HAVEN	1,393	140	16	3	75.0
14050	POLK POWER	PLANT CITY	491	54	7	3	55.3

\*Number of Customers by class are estimates