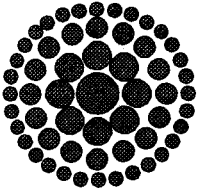


ORIGINAL



Florida Power
CORPORATION

JAMES A. MCGEE
SENIOR COUNSEL

February 29, 2000

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

000000-PH

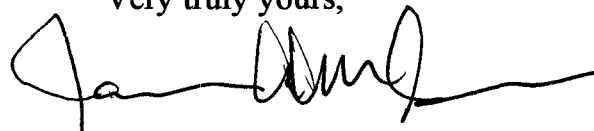
Re: Annual Distribution Service Reliability Report

Dear Ms. Bayó:

Enclosed for filing pursuant to Commission Rule 25-6.0455, F.A.C., are an original and fifteen copies of Florida Power Corporation's Annual Distribution Service Reliability Report.

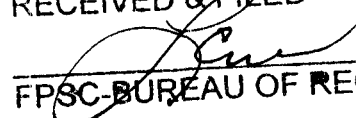
Please acknowledge your receipt of the above filing on the enclosed copy of this letter and return to the undersigned. Thank you for your assistance in this matter.

Very truly yours,


James A. McGee

JAM/kbd
Enclosure

- AFA _____
- APP _____
- CAF _____
- CMU _____
- CTR _____
- EAG _____
- LEG _____
- MAS _____
- OPC _____
- RFOR _____
- SEC _____
- WAW _____
- OTH _____

RECEIVED & FILED

FPSC-BUREAU OF RECORDS

DOCUMENT NUMBER-DATE
02716 MAR-18
FPSC-RECORDS/REPORTING

One Progress Plaza, Suite 1500 • Post Office Box 14042 • St. Petersburg, Florida 33733-4042
Phone: (727) 820-5184 • Fax: (727) 820-5519 • Email: james.a.mcgee@fpc.com

A Florida Progress Company

Florida Power Corporation
(Utility)

SAIDI = System Average Interruption Duration Index

$$= \frac{\text{Sum of All Customer Minutes Interrupted (CMI)}}{\text{Total number of Customers Served (C)}} = \frac{132,940,332}{1,371,200} = \frac{97.0}{(\text{SAIDI})}$$

CAIDI = Customer Average Interruption Duration Index

$$= \frac{\text{Sum of Customer Minutes Interrupted (CMI)}}{\text{Total number of Customer Interruptions (CI)}} = \frac{132,940,332}{1,852,024} = \frac{71.8}{(\text{CAIDI})}$$

SAIFI = System average interruption frequency index.

$$\frac{\text{Total Number of Customer Interruptions (CI)}}{\text{Total Number of Customers Served (C)}} = \frac{1,852,024}{1,371,200} = \frac{1.35}{(\text{SAIFI})}$$

MAIFI = Momentary average interruption event

$$\frac{\text{Sum of all Customer Momentary Interruption Events (CME)}}{\text{Total Number of Customers Served (C)}} = \frac{23,148,747}{1,371,200} = \frac{16.88}{(\text{MAIFI})}$$

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

| CAUSE | OVERHEAD | UNDERGROUND | UNDETERMINED | TOTAL |
|-----------------------|----------|-------------|--------------|--------|
| Lightning | | | 3,188 | 3,188 |
| Other Weather | 4,665 | | | 4,665 |
| Vegetation | 4,775 | | | 4,775 |
| Animal | | | 5,413 | 5,413 |
| Vehicle | | | 444 | 444 |
| Dig-in | | 910 | | 910 |
| Unknown | | | 5,372 | 5,372 |
| Other * | | | | |
| Transformer | | | 3,169 | 3,169 |
| UG primary cable | | 2,924 | | 2,924 |
| UG sec/service | | 2,591 | | 2,591 |
| All Remaining Outages | 705 | | 4,744 | 5,449 |
| Total | 10,145 | 6,425 | 22,330 | 38,900 |

* Next 3 highest causes

$$\text{L Bar} = \frac{\text{Minutes of Interruption}}{\text{Total Number of Outages}} = \frac{4,279,000}{38,900} = 110$$

DOCUMENT NUMBER-DATE

02716 MAR-18

FPSC-RECORDS/REPORTING

3% Worst Performing Feeders

| Feeder # | Substation | Address | Res Cust # | Com Cust # | Ind Cust # | Total Cust # | N | L-Bar |
|-----------------|-------------------|----------------|-------------------|-------------------|-------------------|---------------------|----------|--------------|
| W0105 | Canoe Creek | n/a | 324 | 110 | 0 | 434 | 10 | 169 |
| A35 | Reddick | n/a | 429 | 132 | 6 | 567 | 8 | 122 |
| C4203 | Anclote | n/a | 1,595 | 97 | 0 | 1692 | 7 | 45 |
| W0150 | Lake Aloma | n/a | 1827 | 130 | 0 | 1957 | 6 | 78 |
| K779 | Islesworth | n/a | 438 | 78 | 0 | 516 | 5 | 111 |
| A90 | Trenton | n/a | 695 | 208 | 9 | 912 | 5 | 66 |
| K860 | Shingle Creek | n/a | 1660 | 78 | 0 | 1738 | 5 | 52 |
| C4201 | Anclote | n/a | 1948 | 218 | 14 | 2180 | 5 | 45 |
| W1015 | UCF | n/a | 0 | 101 | 6 | 107 | 5 | 33 |
| M1755 | North Longwood | n/a | 981 | 276 | 6 | 1263 | 5 | 31 |
| W0629 | Holopaw | n/a | 669 | 259 | 6 | 934 | 4 | 144 |
| A204 | Zuber | n/a | 2206 | 364 | 9 | 2579 | 4 | 99 |
| W0187 | Winter Springs | n/a | 1240 | 76 | 0 | 1316 | 4 | 90 |
| W0192 | Winter Springs | n/a | 2066 | 96 | 0 | 2162 | 4 | 78 |
| K1027 | Taft | n/a | 151 | 237 | 39 | 427 | 4 | 70 |
| K1777 | Meadowwoods | n/a | 1516 | 74 | 0 | 1590 | 4 | 69 |
| A46 | Cross City Ind. | n/a | 423 | 175 | 8 | 606 | 4 | 52 |
| A230 | Santos | n/a | 951 | 208 | 0 | 1159 | 4 | 50 |
| C2802 | Highland | n/a | 2395 | 114 | 0 | 2509 | 4 | 27 |
| M32 | Zellwood | n/a | 588 | 72 | 1 | 661 | 4 | 24 |
| X144 | Maximo | n/a | 552 | 79 | 0 | 631 | 4 | 10 |
| W0021 | Casselberry | n/a | 1632 | 65 | 0 | 1697 | 3 | 259 |
| W0630 | Holopaw | n/a | 543 | 66 | 0 | 609 | 3 | 183 |
| W0392 | Pinycastle | n/a | 1610 | 85 | 0 | 1695 | 3 | 101 |
| A334 | Maricamp | n/a | 1146 | 137 | 0 | 1283 | 3 | 93 |
| W0903 | Barberville | n/a | 312 | 154 | 7 | 473 | 3 | 61 |
| X46 | Sixteenth St. | n/a | 1347 | 199 | 2 | 1548 | 3 | 59 |
| X217 | Pasadena | n/a | 670 | 15 | 0 | 685 | 3 | 47 |
| A97 | Belleville | n/a | 562 | 200 | 1 | 763 | 3 | 43 |
| X99 | Bayway | n/a | 2054 | 136 | 3 | 2193 | 3 | 41 |
| C4207 | Anclote | n/a | 2212 | 58 | 0 | 2270 | 3 | 39 |
| C208 | Port Richey | n/a | 2215 | 596 | 2 | 2813 | 3 | 35 |
| M85 | Maitland | n/a | 1566 | 147 | 0 | 1713 | 3 | 35 |

Florida Power Corporation

**Additional FPSC Reliability Data
1/1/99 through 12/31/99**

MI - Percentage of customers who experienced more than five outages

MI = 2.09%