

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Proposed revisions to
Rule 25-6.044, F.A.C.,
Continuity of Service, and Rule
25-6.0455, F.A.C., Annual
Distribution Service Reliability
Report.

DOCKET NO. 011351-EI
ORDER NO. PSC-02-1434-FOF-EI
ISSUED: October 18, 2002

The following Commissioners participated in the disposition of
this matter:

LILA A. JABER, Chairman
J. TERRY DEASON
BRAULIO L. BAEZ
MICHAEL A. PALECKI
RUDOLPH "RUDY" BRADLEY

NOTICE OF ADOPTION OF RULE

NOTICE is hereby given that the Florida Public Service Commission, pursuant to Section 120.54, Florida Statutes, has adopted the amendments to Rules 25-6.044 and 25-6.0455, Florida Administrative Code, relating to continuity of service and annual distribution service reliability report without changes.

The rule amendments were filed with the Department of State on October 18, 2002 and will be effective on November 7, 2002. A copy of the rule as filed with the Department is attached to this Notice.

This docket is closed upon issuance of this notice.

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FPSC-COMMISSION CLERK

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By ORDER of the Florida Public Service Commission, this 18th
day of October, 2002.

BLANCA S. BAYÓ, Director
Division of the Commission Clerk
and Administrative Services

By: Kay Flynn
Kay Flynn, Chief
Bureau of Records and Hearing
Services

(S E A L)

CTM

25-6.044 Continuity of Service.

(1) Definitions applicable to this part:

(a) "Area of Service." A geographic area where a utility provides retail electric service. An Area of Service can be the entire system, a district, or a region into which a utility divides its system. ~~"Service Interruption". An unplanned interruption of electric service greater than or equal to one minute due to a malfunction on the distribution system or a distribution-related outage caused by events on the utility's side of customer meters which is triggered by load management restoration. The term does not include interruptions due to momentary circuit breaker operations, hurricanes, tornados, ice on lines, planned load management, or electrical disturbances on the generation or transmission system.~~

(b) "Average Duration of Outage Events (L-Bar)." The sum of each Outage Event Duration for all Outage Events occurring during a given time period, divided by the Number of Outage Events over the same time period within a specific Area of Service. ~~"Customer Interruption Duration" (L). The time interval, in minutes, between the time when a utility first becomes aware of a service~~

~~interruption and the time of restoration of service to a customer affected by that service interruption.~~

(c) "Customer Average Interruption Duration Index (CAIDI)."
The average time to restore service to interrupted retail customers within a specified Area of Service over a given period of time. It is determined by dividing the sum of Customer Minutes of Interruption by the total number of Service Interruptions for the respective Area of Service. ~~"System Interruption Time".~~ ~~The total customer minutes of service interruption experienced on a utility's system during a given time period, determined by summing the total minutes of Customer Interruption Duration for all interruptions during that time period. The total minutes of Customer Interruption Duration for an individual interruption is calculated by summing the Customer Interruption Duration for each customer affected by that individual interruption (estimated if actual data is not available).~~

(d) "Customers Experiencing More Than Five Interruptions (CEMI5)." The number of retail customers that sustain more than five Service Interruptions for a specified Area of Service over a given period of time. ~~"Number of Service Interruptions (N)."~~ ~~The sum of service interruptions for the entire distribution system, or~~

~~whichever portion of the distribution system which is being reviewed.~~

(e) "Customer Minutes of Interruption (CMI)." For a given Outage Event, CMI is the sum of each affected retail customer's Service Interruption Duration. ~~"Average length of a Service Interruption (L-Bar)."~~ ~~The time interval, in minutes, between the time when the utility first becomes aware of a service interruption and restoration of service to the last customer affected by that service interruption, summed for all service interruptions occurring during a given time period, and divided by the Number of Service Interruptions in the same time period.~~

(f) "Momentary Average Interruption Event Frequency Index (MAIFIE)." The average number of Momentary Interruption Events recorded on primary circuits for a specified Area of Service over a given period of time.

(g) "Momentary Interruption." The complete loss of voltage for less than one minute. This does not include short duration phenomena causing waveform distortion.

(h) "Momentary Interruption Event." One or more Momentary Interruptions recorded by the operation of a utility distribution interrupting device within a five minute period. For example, two

or three operations of a primary circuit breaker within a five minute period that did not result in a Service Interruption is one Momentary Interruption Event.

(i) "Number of Customers Served (C)." The sum of all retail customers on the last day of a given time period within a specific Area of Service.

(j) "Number of Outage Events (N)." The sum of Outage Events for an Area of Service over a specified period of time.

(k) "Outage Event." An occurrence that results in one or more individual retail customer Service Interruptions.

(l) "Outage Event Duration (L)." The time interval, in minutes, between the time when a utility first becomes aware of an Outage Event and the time of restoration of service to the last retail customer affected by that Outage Event.

(m) "Service Interruption." The complete loss of voltage of at least one minute to a retail customer.

(n) "Service Interruption Duration." The time interval, in minutes, between the time a utility first becomes aware of a Service Interruption and the time of restoration of service to that retail customer.

(o) "System Average Interruption Duration Index (SAIDI)."

The average minutes of Service Interruption Duration per retail customer served within a specified Area of Service over a given period of time. It is determined by dividing the total Customer Minutes of Interruption by the total Number of Customers Served for the respective Area of Service.

(p) "System Average Interruption Frequency Index (SAIFI)."

The average number of Service Interruptions per retail customer within a specified Area of Service over a given period of time. It is determined by dividing the sum of Service Interruptions by the total Number of Customers Served for the respective Area of Service.

(q) "Planned Service Interruption." A Service Interruption initiated by the utility to perform necessary scheduled activities, such as maintenance, infrastructure improvements, new construction due to customer growth. Customers are typically notified in advance of these events.

(2) Each utility shall keep a record of its system reliability and continuity of service data, customers' Service Interruption notifications, and other data necessary for the reports filed under these rules. The utility shall record each

Outage Event as planned or unplanned and shall identify the point of origination such as generation facility, transmission line, transmission substation equipment, or distribution equipment. The cause of each Outage event shall be determined and recorded in a standardized manner throughout the utility. The date and time of the Outage Event and the number of Service Interruptions for the Outage Event shall also be recorded ~~the cause of each Service Interruption, and shall categorize the cause as one or more of the following: lightning, tree or limb contacting line, animal, line downed by vehicle, dig-in, substation outage, line transformer failure, salt spray on insulator, and corrosion, other, or unknown, and shall further identify whether the initiating event occurred on overhead or underground distribution lines.~~

(3) Each utility shall make all reasonable efforts to prevent interruptions of service and when such interruptions occur shall attempt to restore service within the shortest time practicable consistent with safety.

(4) When the service is necessarily interrupted or curtailed ~~for prolonged periods and for the purpose of working on the system,~~ it shall be done at a time which, when at all practicable, will result in ~~cause~~ the least inconvenience to customers and all such

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scheduled interruptions shall be preceded by ~~reasonable~~^{adequate} notice whenever practicable to affected customers. Each utility shall maintain a current copy of its noticing procedures with the Division of Economic Regulation.

(5) The provisions of this rule shall not apply to a curtailment or an interruption of service to customers receiving service under interruptible rate classifications when the curtailment or interruption of service occurs pursuant to the affected retail customer's service agreement.

Specific Authority: 366.05(1), F.S.

Law Implemented: 366.03, 366.04(2)(c), 366.04(5), 366.05, F S.

History: New 7/29/69, formerly 25-6.44, amended 02/25/93, 11/07/02.

25-6.0455 Annual Distribution Service Reliability Report.

(1) Each utility shall file a ~~written~~ Distribution Service Reliability Report with the Director of the Commission's Division of Economic Regulation Electric and Gas on or before March 1st of each year, ~~for covering~~ the preceding calendar year. The report shall contain the following information:

(a) the utility's total number of Outage Events service interruptions (N), categorized by cause for the highest 10 causes of Outage Events as specified in Rule 25-6.044, and the Average Duration of Outage Events average length of service interruptions experienced (L-Bar), and Average Service Restoration Time (CAIDI). The utility shall record these data and analyses on Form PSC/ECR 102-1, entitled "Outage Events" which may be obtained from the Division of Economic Regulation, 2540 Shumard Oak Boulevard, Tallahassee, Florida 32399-0850, 850/413-6900;:-

(b) identification of the three percent of the utility's Primary Circuits (feeders) with the highest number of feeder breaker interruptions. For each primary circuit so Each feeder shall be identified the utility shall report the primary circuit identification by its number or name, substation origin, and general location, as well as the estimated number of affected

customers by in each service class served by the feeder circuit, Number of Outage Events as well as the number of service interruptions (N) , Average Duration of Outage Events and average length of service interruption (L-Bar), Average Service Restoration Time (CAIDI), whether the same circuit is being reported for the second consecutive year, the number of years the primary circuit was reported on the "Three Percent Feeder List" in the past five years, and the corrective action date of completion for the feeder. The utility shall record these data and analyses on Form PSC/ECR 102-2, entitled "Three Percent Feeder List" which may be obtained from the Division of Economic Regulation, 2540 Shumard Oak Boulevard, Tallahassee, Florida 32399-0850, 850/413-6900;

(c) the reliability indices SAIDI, CAIDI, SAIFI, MAIFIE, and CEMI5 for its system and for each district or region into which its system may be divided. The utility shall report these data and analyses on Form PSC/ECR 102-3, entitled "System Reliability Indices" which may be obtained from the Division of Economic Regulation, 2540 Shumard Oak Boulevard, Tallahassee, Florida 32399-0850, 850/413-6900. Any utility furnishing electric service to fewer than 50,000 retail customers shall not be required to report the reliability indices MAIFIE or CEMI5;

(d) the calculations for each of the required indices and measures of distribution reliability;

(2) A utility may exclude from the Annual Distribution Service Reliability Report the Outage Events directly caused by one or more of the following: planned interruptions, a storm named by the National Hurricane Center, a tornado recorded by the National Weather Service, ice on lines, a planned load management event, an electric generation disturbance, an electric transmission system disturbance, or an extreme weather or fire event causing activation of the county emergency operation center.

(3) A utility may submit a request to exclude an Outage Event from the Annual Distribution Service Reliability Report that is not specifically provided for in Rule 25-6.0455(2). Such a request must be filed with the Commission's Division of the Commission Clerk and Administrative Services within 30 days of the Outage Event for which an exclusion is being requested. The Commission will approve the request if the utility is able to demonstrate that the outage was not within the utility's control, and that the utility could not reasonably have prevented the outage.

Specific Authority: 366.05(1), F.S.

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Law Implemented: 366.03, 366.04(2)(c)&(f), 366.04(5), 366.05,
366.05(7), F.S.

History: New 02/25/93, amended 11/07/02.