

**West Florida Electric Cooperative, Inc. Report to the Florida Public Service Commission
Pursuant to Rule 25-6.0343, F.A.C.
Calendar Year 2017**

- 1) **West Florida Electric Cooperative Association, Inc. (WFEC)** is a non-profit Touchstone Energy® Cooperative owned by its members and locally operated. WFEC serves approximately 28,000 meters, providing dependable electricity and other services at competitive prices in Calhoun, Holmes, Jackson and Washington Counties in Northwest Florida.

Established in 1937, WFEC is headquartered at 5282 Peanut Road in Graceville, Florida, and maintains district offices in Bonifay and Sneads. WFEC's service area is divided into nine (9) districts, each represented by a member-elected trustee

WFEC receives wholesale power from PowerSouth Electric Cooperative, a generation and transmission cooperative, based in Andalusia, Alabama. PowerSouth is wholly owned by WFEC and the 19 other distribution cooperatives and municipalities it serves in Alabama and in Northwest Florida. Two (2) WFEC delegates, along with representatives from PowerSouth's other member systems, participate in the management of PowerSouth's policies, rules, and regulations and the establishment of rates, terms and conditions affecting the wholesale power supply.

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- 2) The number of meters served in calendar year 2017 was 28,178.
- 3) Standards of Construction:
- 1) WFEC completed its long-range system study in 2017. The principal objective of this study is to develop a guide to relate long-range plant requirements to present actions. This study will become a valuable planning tool to provide a framework for the

construction of the future distribution system. A goal of this study is to develop a systematic schedule for developing major facilities in order to meet anticipated future system requirements.

2) National Electric Safety Code Compliance:

Construction standards, policies, guidelines, practices, and procedures at WFEC comply with the National Electrical Safety Code (ANSI-C2) current edition, USDA RUS Bulletin 1728F-803 Specifications and Drawings for 24.9/14.4 Line Construction and USDA RUS Bulletin 1728-806 Specifications and Drawings for Underground Electric Distribution. Ten (10) percent of all construction is randomly sampled and inspected by a third party engineering consulting firm. Results of inspections are reported to the USDA Rural Utilities Service and to WFEC's Staff Engineer; Also FPSC staff randomly samples and inspects a portion of construction. In both cases, corrections, if any, are made and the Staff Engineer provides feedback to construction crews and staking technicians to ensure Compliance.

3) Extreme Wind Loading Standards:

WFEC complies with the current edition of the NESC particularly 250c Extreme Wind Loading (with Figure 252-2(d) and 250d Extreme Ice with Concurrent Wind Loading.

4) Flooding and Storm Surges:

WFEC is a non-coastal utility; therefore, storm surge is not an issue. Some areas in WFEC's territory are subject to flooding, however, past flooding had little effect on the system. In these areas, line design is modified to compensate for known flooding conditions.

5) Safe and Efficient Access of New and Replacement Distribution Facilities:

Electrical construction standards, policies, guidelines, practices, and procedures at WFEC provide for placement of new and replacement distribution facilities so as to facilitate safe and efficient access for installation and maintenance. Wherever new facilities are placed (i.e., front, back or side of property), all facilities are installed so that WFEC's facilities are accessible by its crews and vehicles to ensure proper maintenance/repair is performed as expeditiously and safely as possible. WFEC decides on a case-by-case basis whether existing facilities need to be relocated. If it is determined that facilities need to be relocated, they will be placed in the safest, most accessible area available. All underground facilities are designed with loop feeds. Safety is determined by NESC (current edition) guidelines and common sense.

6) Attachments by Others:

Electrical construction standards, policies, guidelines, practices and procedures at WFEC include written safety, pole reliability, pole loading capacity, and engineering standards and procedures for attachments by others to the utility's distribution poles. Quarterly pole line inspections are done for newly constructed jobs. The inspections

encompass all pole line construction criteria. General inspections are currently done on an eight (8) year cycle.

4) Facility Inspections:

- 1) WFEC utilizes RUS Bulletin 1730B-121 as its guideline for a continuing program of pole maintenance and inspection. During the 2017 year WFEC inspected 10.5% of its system. Out of the 10.5% inspected, 8.3% required maintenance or replacement. During 2017, WFEC converted approximately 5.3 miles of single phase line to three-phase to correct loading issues and improve service. WFEC also relocated five (5) miles of line to accommodate State and County government road widening projects. WFEC re-insulated and upgraded approximately 35 miles of distribution lines from 12.5 KV to 25 KV. During the re-insulation procedure, every pole is upgraded to 25 KV and the pole replaced, if necessary. During the 2017 year, 1,091 poles were replaced.
- 2) N/A
- 3) N/A
- 4) Number of distribution poles is less than 2% of total.

5) Vegetation Management

- 1) WFEC has a very aggressive vegetation management program which encompasses ground to sky side trimming along with mechanical mowing and tree removal. During the 2017 year, WFEC mowed and side trimmed 685 miles of its distribution system. Out of that number approximately 10% is three phase distribution circuits with the remainder being single phase circuits. During the 2017 year, WFEC chemically sprayed approximately 698 miles of right of way. Approximately 685 miles will be sprayed and approximately 784 miles trimmed and mowed during the 2018 year.
- 6) WFEC contracted with Osmose Utilities Services to enhance the pole inspection program at WFEC. During 2017, Osmose inspected 9,488 poles. The reject percentage of the 9,488 poles was 7.7%

Yearly Outage Information for 2017

Outage Data Actual

Total Number of Customers Served	27,777
Total Number of Consumer Hours	158,698.12
Total Number of Consumer Minutes	9,521,887
Total Number of Customers Affected	75,173
CAIDI – Customer Average Interruption Duration Index	126.67
SAIDI – System Average Interruption Duration Index	342.8
SAIFI – System Average Interruption Frequency Index	2.71
Outage Event Duration for All Outage Events	5,187.08
Divided by Total Number of Service Interruptions	2,572
L-Bar (Hours)	2.02
L-Bar (Minutes)	121.2

Outage Data Without Major Event Days

Number of Major Event Days	6
Total Number of Consumer Hours	60,988.95
Total Number of Consumer Minutes	3,659,337
Total Number of Customers Affected	42,668
CAIDI – Customer Average Interruption Duration Index	85.76
SAIDI – System Average Interruption Duration Index	131.74
SAIFI – System Average Interruption Frequency Index	1.54
Outage Event Duration for All Outage Events	2,452.43
Divided by Total Number of Service Interruptions	1,917
L-Bar (Hours)	1.28
L-Bar (Minutes)	76.8

All Data Below are in Minutes

Power Supplier SAIDI – System Average Interruption Duration Index	10.78
MEDI SAIDI – System Average Interruption Duration Index	219.88
Planned SAIDI – System Average Interruption Duration Index	0.35
Other SAIDI – System Average Interruption Duration Index	131.39
Total	362.4