West Florida Electric Cooperative Association, Inc.
Report to the Florida Public Service Commission Pursuant to Rule 25-6.0343, F.A.C.
Calendar Year 2018

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 Energy 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 2018 was 28,677.

3) Standards of Construction:

1) In early October 2018, Hurricane Michael, one of the strongest hurricanes to hit the United States, crashed into the Florida panhandle, leaving a path of over 200 miles of destruction across the area. The Florida panhandle experienced heavy rain and devastating winds, resulting in an evacuation order covering 375,000 residents. The effect of Hurricane Michael on the Florida panhandle was significant, causing

widespread damage in many areas including homes, businesses, core infrastructure and government properties.

West Florida Electric Cooperative Association, Inc. (WFEC) is a member-owned electric cooperative that provides electric service to areas of the Florida panhandle not served by other utilities. WFEC has 4,814 miles of energized lines and serves approximately 28,000 members and serves portions of Calhoun, Holmes, Jackson and Washington counties in the Florida Panhandle.

Due to the widespread damage from Hurricane Michael, WFEC estimates the following damages occurred to the electric distribution including:

- over 4,500 poles were broken during Hurricane Michael
- over 1,000 transformers of varying sizes were destroyed
- over 200 electrical devices were destroyed, ex., OCR's, regulators, etc.
- over 700 electrical meters were destroyed
- over 1,000 yard lights were destroyed
- over 1,500 miles of WFEC's right-of-way was left in a destructive state
- over 500 miles of conductor was destroyed and replaced
- hardware associated with the estimated 4,500 broken poles was replaced when the poles were changed

Various line contractors, right-of-way contractors and mutual aid cooperatives were obtained by WFEC for restoration assistance. An estimated 1,600 personnel made up these crews.

Of WFEC's 28,000 accounts, less than 1% had power following Hurricane Michael.

All services that could receive power were restored within a three-week period.

There were three (3) fatalities associated with this hurricane. One lineman from WFEC and two (2) from Lee Electrical Contractors located in North Carolina.

Costs to WFEC are estimated to be above $50 million.

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, polices, 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. Prior to Hurricane Michael, WFEC inspected 7% of its system. Out of the 7% inspected, 5% required maintenance or replacement. During 2018, WFEC converted approximately 2 miles of single-phase line to three-phase to correct loading issues and improve service. WFEC re-insulated and upgraded approximately 20 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.

2) N/A

3) N/A

4) Number of distribution poles is less than 2% of total.

5) Vegetation Management

1) WFEC has a vegetation management program which encompasses ground to sky side trimming along with mechanical mowing and tree removal. During the 2018 year, WFEC mowed and side trimmed 784 miles of its distribution system. Out of that number, approximately 6% is three-phase distribution circuits with the remainder being single-phase circuits. During the 2018 year, WFEC chemically sprayed approximately 685 miles of right of way. Approximately 632 miles will be trimmed and mowed during the 2019 year.

6) WFEC contracted with Osmose Utilities Services to enhance the pole inspection program at WFEC. During 2018, Osmose inspected 5,937 poles. The reject percentage of the 5,937 poles was 2.4%

Yearly Outage Information for 2018

Outage Data Actual

Total Number of Customers Served	27,777
Total Number of Consumer Hours	7,964,178.55
Total Number of Consumer Minutes	477,850,713
Total Number of Customers Affected	409,981
CAIDI – Customer Average Interruption Duration Index	1,165.54
SAIDI – System Average Interruption Duration Index	17,203.11
SAIFI – System Average Interruption Frequency Index	14.76
Outage Event Duration for All Outage Events	5,710.22
Divided by Total Number of Service Interruptions	2,944
L-Bar (Hours)	1.94
L-Bar (Minutes)	116.4

Outage Data Without Major Event Days

Number of Major Event Days	33
Total Number of Consumer Hours	105,381.10
Total Number of Consumer Minutes	6,322,866
Total Number of Customers Affected	59,553
CAIDI – Customer Average Interruption Duration Index	106.17
SAIDI – System Average Interruption Duration Index	227.63
SAIFI – System Average Interruption Frequency Index	2.14
Outage Event Duration for All Outage Events	3,852.22
Divided by Total Number of Service Interruptions	2,589
L-Bar (Hours)	1.49
L-Bar (Minutes)	89.4

All Data Below are in Minutes

Power Supplier SAIDI – System Average Interruption Duration Index	59.48
MEDI SAIDI – System Average Interruption Duration Index	16,975.48
Planned SAIDI – System Average Interruption Duration Index	10.65
Other SAIDI – System Average Interruption Duration Index	216.98
Total	17,262.59