



Wellsboro Electric Company

2019 Summer Readiness

5/17/19

A. Reliability Enhancement Program

a. Enhanced Vegetation Management

The company will perform a detailed inspection of 4 distribution circuits in 2019. This inspection will identify hazard trees to be removed by an approved tree trimming company or by Wellsboro Electric crews. Wellsboro has contracted with Ironwood Heavy Highway to trim and remove hazard trees on 53 miles of the Stony Fork circuit.

b. Storm Hardening

The Company is continuing to test 1500-1600 poles each year under a Red Tag program. Any failures will be replaced the following year unless the failure is identified as requiring immediate replacement. These replacements will strengthen the distribution system during times of extreme weather consisting of high winds and heavy rains.

c. Fuses/Reclosers/Automatic Switches

Fusing is installed on single phase taps for new construction to protect the three phase lines during Summer storms. Wellsboro will have completed inspections of all automatic reclosers on the system for 2019 by May 31, 2019, in accordance with Wellsboro Electric's I&M program. Eight reclosers will be replaced this year and will be sent in for rebuild. Wellsboro Electric does not use automatic switches. Fusing and the addition of reclosers will be evaluated as a need has been identified.

d. Smart Grid

Wellsboro Electric's goal of a completely automated metering system will be completed in 2019. At this time, we are 100% automated and are replacing the final 300 Turtle meters (Daily) with Aclara meters (Hourly). The company completed a GIS Project in the Fall of 2018 that provided a substantial improvement to the mapping detail. The mapping data was used to synchronize with our CIS data which led to increased accuracy and the prediction of outages in our OMS system.

B. Preventative Maintenance Programs

a. Capacitor Inspections

Capacitors are inspected during the company's overhead line inspection.

b. Vegetation Management

The company contracts with ACRT an external Utility Forester who oversees the tree trimming bid work done on Wellsboro Electric's system to ensure the work is completed per the company's specifications.

c. Substation Inspections

Substations are inspected monthly in accordance with the company's inspection & maintenance



program. Substations are inspected monthly with an infrared camera to identify hot spots. Any hot spots that are identified are reported and fixed ASAP.

d. Aerial Patrols

Wellsboro began performing aerial patrols in 2018 with drones for difficult to access ROW's on the distribution facilities. The patrols are performed by external vendors with flying expertise.

e. Infrared Inspections

The company inspects all major equipment (ex. regulators, ocr's) twice a year and Substations are inspected monthly. Junction poles are inspected during the line inspections performed each year according to the Company's approved I&M Plan.

C. Capacity Planning

Wellsboro has sufficient capacity in the Hilltop substation to double today's load (23 MW's). Individual circuits are monitored on the company's distribution system and voltage conversions are being performed for reliability and increased capacity. Additional system upgrades will be evaluated when new C&I customers express interest in electric service.

D. 2018/2019 Storm Update and Lessons Learned

The company experienced no major winter or summer storms.

E. 2018 Summer Readiness

a. Capacity Additions

In 2018 and 2019, the final 2 voltage conversions will be performed from 4Kv to 12Kv. The conversions when completed will have all circuits fed out of the newer Hilltop substation and then enable two older substations to begin the process of retirement in 2020. These voltage conversions will improve the ability to serve additional load with the current infrastructure.

b. Transmission Preparedness

The company does not own any transmission line.

c. Event Preparedness

Wellsboro Electric reviewed storm procedures in the Fall of 2018 and reviewed it with company personnel. The company will begin training personnel on various storm functions in late 2019 and will participate in PEMA's Fall 2019 storm drill. Material stock is kept at appropriate levels and the Company maintains an emergency stock for larger events. The company participates has a few customers that participate in the Demand Response Program to help PJM maintain transmission system integrity during events.

d. Training

The company participated in PREA training and established an online apprentice training



Program for the linemen.

e. Personnel

Wellsboro was fully staffed in 2018 and continued to contract with ACRT for Forestry services. The Company plans to maintain the complement of linemen at 7 in 2019.

F. Storm Response

a. Outage Restoration Strategy

The company's restoration strategy is to restore customers power in a safe and efficient manner. Larger storm situations will identify critical facilities (water, sewer, medical, shelters, etc. for repair first and then three phase lines and finally single phase lines using internal/external line crews for repairs.

b. Communications and Outreach

The company uses several forms of communications for routine daily updates including phone, newspaper, mailers and social media. The company has a VP of Communications when larger events arise including storms. The company has an outage map on our website that customers can access during an outage to see if an outage is impacting their area.

c. Outage Restoration and Storm Response Best Practices Implements and/or Identified for Future Implementation

Wellsboro participates with the EAP best practices group and incorporates changes that are relevant to the Company. The Company looks at ways to improve processes and procedures and then reviews it with Company personnel.

G. ASAI (Average Service Availability Index)

a. Average Service Availability Index (ASAI) for the 5% Worst Performing Circuits (Period starting Jan 1, 2019 and ending Mar 31, 2019) and Customer Minutes of Interruption (CMI)

Currently, not calculated. Working with OMS vendor in 2019 to identify if capability is available to the Company to pull Worst Performing circuit data.