



Wellsboro Electric Company

P. O. Box 138 • 33 Austin Street • Wellsboro, PA 16901 • (570) 724-3516 • FAX (570) 724-1798

January 11, 2021

E-filed and USPS Registered Mail

Pennsylvania Public Utility Commission
Ms. Rosemary Chiavetta, Secretary
PO Box 3265
Harrisburg, PA 17105-3265

RE: Docket No. M-2016-2522508 – 4th Quarter 2020 Reliability Report

Dear Secretary Chiavetta,

Enclosed please find the 4th Quarter 2020 Reliability Report for Wellsboro Electric Company.
Please contact me at 570-724-6701 or barneyf@ctenterprises.org if I can answer any questions.

Sincerely,

Byron Farnsworth Jr.
President/CEO

cc: Dan Searfoorce – Bureau of Technical Utility Services (via email)
John Van Zant – Bureau of Technical Utility Services (via email)

WELLSBORO ELECTRIC COMPANY

QUARTERLY RELIABILITY REPORT 57.195 REPORTING REQUIREMENTS

Fourth quarter 2020

October-December 2020

SUBMITTED BY

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A rolling 12-month breakdown and analysis of outage causes during the receding quarter including the number and percentage of service outages, the number of customers interrupted, and customer interruption minutes categorized by outage cause such as equipment failure, animal contact, tree related, and so forth. Proposed solutions to identified service problems shall be reported.

| <u>Outage Cause</u> | <u># Customers Affected</u> | <u># of Outages</u> | <u>Customer Minutes</u> | <u>Percentage of Outages</u> |
|---------------------|---------------------------------|-------------------------|-----------------------------|----------------------------------|
| Animal | 581 | 34 | 40799 | 16.8% |
| Elec Overload | 0 | 0 | 0 | 0.0% |
| Equipt Failure | 2633 | 41 | 184652 | 20.3% |
| Lightning | 0 | 0 | 0 | 0.0% |
| Tree, Off, R.O.W. | 2522 | 65 | 350714 | 32.2% |
| Tree, On R.O.W. | 560 | 16 | 78699 | 7.9% |
| Unknown | 1070 | 42 | 62003 | 20.8% |
| Wind | 71 | 4 | 5776 | 2.0% |
| Total | 7437 | 202 | 722643 | 100% |

A description of each major event that occurred during the preceding quarter including the time and duration of the event, the number of customers affected, the cause of the event and any modified procedures adopted in order to avoid or minimize the impact of similar events in the future.

| Date | Time of Event | Time Restored | # Cust Affected | Cause |
|------------|---------------|---------------|-----------------|-------------------|
| 10/15/2020 | 9:50:00 AM | 11:15:00 AM | 1517 | Off ROW tree |
| 10/21/2020 | 2:01:00 PM | 3:37:00 PM | 714 | equipment failure |

| Cause | Apr-20 | May-20 | Jun-20 | Jul-20 | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-20 | Feb-20 | Mar-20 | |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|
| NUMBER OF OUTAGES | | | | | | | | | | | | | |
| Animal | 2 | 0 | 9 | 12 | 1 | 6 | 1 | 2 | 0 | 1 | 0 | 0 | 34 |
| Elec Overload | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Equipt Failure | 8 | 7 | 3 | 0 | 7 | 2 | 3 | 5 | 1 | 1 | 4 | 0 | 41 |
| Lightning | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tree, Off, R.O.W. | 10 | 1 | 0 | 3 | 7 | 5 | 2 | 32 | 1 | 0 | 0 | 4 | 65 |
| Tree, On R.O.W. | 2 | 0 | 1 | 2 | 5 | 4 | 0 | 1 | 0 | 0 | 0 | 1 | 16 |
| Unknown | 6 | 4 | 8 | 4 | 7 | 3 | 1 | 3 | 1 | 3 | 1 | 1 | 42 |
| Wind | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 4 |
| | 31 | 12 | 21 | 21 | 27 | 20 | 7 | 43 | 3 | 5 | 6 | 6 | 202 |

| Cause | Apr-20 | May-20 | Jun-20 | Jul-20 | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-20 | Feb-20 | Mar-20 | |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|
| CUSTOMERS AFFECTED | | | | | | | | | | | | | |
| Animal | 4 | 0 | 194 | 318 | 1 | 59 | 1 | 3 | 0 | 1 | 0 | 0 | 581 |
| Elec Overload | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Equipt Failure | 75 | 1246 | 26 | 0 | 1120 | 33 | 4 | 40 | 18 | 1 | 70 | 0 | 2633 |
| Lightning | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tree, Off, R.O.W. | 731 | 6 | 0 | 242 | 511 | 170 | 68 | 590 | 28 | 0 | 0 | 176 | 2522 |
| Tree, On R.O.W. | 59 | 0 | 1 | 285 | 90 | 36 | 0 | 58 | 0 | 0 | 0 | 31 | 560 |
| Unknown | 86 | 85 | 284 | 18 | 85 | 30 | 1 | 216 | 13 | 147 | 1 | 104 | 1070 |
| Wind | 70 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 71 |
| | 1025 | 1337 | 505 | 863 | 1807 | 328 | 74 | 907 | 59 | 149 | 72 | 311 | 7437 |

| Cause | Apr-20 | May-20 | Jun-20 | Jul-20 | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-20 | Feb-20 | Mar-20 | |
|-------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Customer Minutes | | | | | | | | | | | | | |
| Animal | 282 | 0 | 18708 | 13503 | 39 | 7946 | 28 | 230 | 0 | 63 | 0 | 0 | 40799 |
| Elec Overload | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Equipt Failure | 6667 | 90574 | 2806 | 0 | 46691 | 4348 | 751 | 7400 | 2792 | 143 | 22480 | 0 | 184652 |
| Lightning | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tree, Off, R.O.W. | 47954 | 238 | 0 | 23353 | 128866 | 22354 | 30912 | 73451 | 5456 | 0 | 0 | 18130 | 350714 |
| Tree, On R.O.W. | 7996 | 0 | 35 | 37709 | 15860 | 6433 | 0 | 8466 | 0 | 0 | 0 | 2200 | 78699 |
| Unknown | 3316 | 6280 | 16678 | 1251 | 6326 | 2278 | 46 | 16811 | 159 | 7546 | 31 | 1281 | 62003 |
| Wind | 5647 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 129 | 0 | 5776 |
| | 71863 | 97091 | 38228 | 75817 | 197782 | 43358 | 31736 | 106358 | 8407 | 7752 | 22640 | 21611 | 722643 |

Rolling 12-Month reliability index values (SAIFI,CAIDI,SAIDI) for the EDC'S service territory for the receding quarter. The report shall include the data used in calculating the indices, namely the average number of customers served, the number of sustained customers interruptions, the number of customers affected, and the customer minutes of interruption.

WELLSBORO ELECTRIC COMPANY**ROLLING TWELVE MONTH INTERRUPTION INDEXES****4th Quarter 2020**

| |
|-------|
| SAIDI |
| 114 |

| |
|-------|
| SAIFI |
| 1.17 |

| |
|-------|
| CAIDI |
| 97 |

ROLLING TWELVE MONTH STANDARD AS ESTABLISHED BY THE PUC

| |
|-------|
| SAIDI |
| 278 |

| |
|-------|
| SAIFI |
| 1.66 |

| |
|-------|
| CAIDI |
| 167 |

ROLLING THREE YEAR AVERAGE INTERRUPTION INDEXES

| |
|-------|
| SAIDI |
| 124 |

| |
|-------|
| SAIFI |
| 1.09 |

| |
|-------|
| CAIDI |
| 113 |

ROLLING THREE YEAR AVERAGE STANDARD AS ESTABLISHED BY THE PUC

| |
|-------|
| SAIDI |
| 185 |

| |
|-------|
| SAIFI |
| 1.12 |

| |
|-------|
| CAIDI |
| 136 |

AVERAGE NUMBER OF CUSTOMERS SERVED

| |
|------|
| 6367 |
|------|

Wellsboro Electric Company

Reliability Index

SAIDI

| <u>Month</u> | <u>Total Customer Minutes</u> | <u># Customers Served</u> |
|---------------|-----------------------------------|-------------------------------|
| Jan-20 | 7752 | 6357 |
| Feb-20 | 22640 | 6362 |
| Mar-20 | 21611 | 6358 |
| Apr-20 | 71863 | 6364 |
| May-20 | 97091 | 6368 |
| Jun-20 | 38228 | 6374 |
| July-20 | 75817 | 6366 |
| Aug-20 | 197782 | 6368 |
| Sept-20 | 43358 | 6370 |
| Oct-20 | 33736 | 6371 |
| Nov-20 | 106358 | 6372 |
| Dec-20 | 8407 | 6374 |
| Totals | 724643 | 76404 |

Average # Customers Served

6367

ROLLING TWELVE MONTH AVERAGE SAIDI INDEX

113.81

Wellsboro Electric Company

Reliability Index

SAIFI

| Month | <u># Customers Interrupted</u> | <u># Customers Served</u> |
|---------------|---------------------------------------|----------------------------------|
| Jan-20 | 149 | 6357 |
| Feb-20 | 72 | 6362 |
| Mar-20 | 311 | 6358 |
| Apr-20 | 1025 | 6364 |
| May-20 | 1337 | 6368 |
| Jun-20 | 505 | 6374 |
| July-20 | 863 | 6366 |
| Aug-20 | 1807 | 6368 |
| Sept-20 | 328 | 6370 |
| Oct-20 | 74 | 6371 |
| Nov-20 | 907 | 6372 |
| Dec-20 | 59 | 6374 |
| Totals | 7437 | 76404 |

Average # Customers Served **6367**

Rolling Twelve Month Average SAIFI Index **1.17**

Wellsboro Electric Company

Reliability Index

CAIDI

| <u>Month</u> | <u>Total Customer Minutes</u> | <u># Customers Interrupted</u> |
|---------------|-----------------------------------|------------------------------------|
| Jan-20 | 7752 | 149 |
| Feb-20 | 22640 | 72 |
| Mar-20 | 21611 | 311 |
| April -20 | 71863 | 1025 |
| May-20 | 97091 | 1337 |
| June-20 | 38228 | 505 |
| July-19 | 75817 | 863 |
| Aug-19 | 197782 | 1807 |
| Sept-19 | 43358 | 328 |
| Oct-19 | 33736 | 74 |
| Nov-19 | 106358 | 907 |
| Dec-19 | 8407 | 59 |
| Totals | 724643 | 7437 |

Rolling Twelve Month Average CAIDI Index

97.44

ROLLING THREE YEAR WORKSHEET

4th Quarter 2020

| <u>QTR</u> | <u>SAIDI</u> | <u>SAIFI</u> | <u>CAIDI</u> |
|-------------------|---------------------|---------------------|---------------------|
| 4-19 | 11.00 | 0.10 | 113.00 |
| 3-19 | 23.00 | 0.21 | 111.00 |
| 2-19 | 26.00 | 0.31 | 84.00 |
| 1-19 | 21.00 | 0.15 | 144.00 |
| 4-18 | 36.59 | 0.25 | 143.79 |
| 3-18 | 44.53 | 0.45 | 99.40 |
| 2-18 | 86.41 | 0.51 | 170.04 |
| 1-18 | 10.25 | 0.14 | 72.88 |
| 4-20 | 23.00 | 0.16 | 141.00 |
| 3-20 | 50.00 | 0.47 | 106.00 |
| 2-20 | 33.00 | 0.45 | 72.00 |
| 1-20 | 8.00 | 0.08 | 98.00 |
| | 372.78 | 3.28 | 1355.11 |
| | 124.26 | 1.093333 | 112.9258 |

Summary

Animal contacts caused (16.8%) of the outages

Trees caused (40.1%) of the outages (7.9% ON-ROW and 32.2% OFF-ROW)

Unknown (20.6%)

Equipment failures (20.3%)

The Company filed exemptions for 2 major events in the fourth quarter of 2020.

The Company continues to add new devices to the system to help sectionalize outages and cut down on the amount of outage times. For the fourth quarter of 2020 our numbers have decreased compared to the third quarter.

The amount of On ROW trees decreased but the number of Off ROW trees increased.

The control of the on ROW trees can be attributed to the style of trimming being done on the system.

The Company saw our Unknown outages hold steady at (20.8%) these outages could be caused by animal or trees.