

**WELLSBORO ELECTRIC COMPANY**

**QUARTERLY RELIABILITY REPORT  
57.195 REPORTING REQUIREMENTS**

M-2016-2522508

**Fourth Quarter 2018**

**Oct-Dec 2018**

**SUBMITTED BY**

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Rolling 12-Month reliability index values (SAIFI,CAIDI,SAIDI) for the EDC'S service territory for the preceding 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 INDEXS**

**Fourth Quarter 2018**

SAIDI
191.04

SAIFI
1.43

CAIDI
133.67

**ROLLING TWELVE MONTH STANDARD AS ESTABLISHED BY THE PUC**

SAIDI
278

SAIFI
1.66

CAIDI
167

**ROLLING THREE YEAR AVERAGE INTERRUPTION INDEXS**

SAIDI
122.26

SAIFI
1.14

CAIDI
110.98

**ROLLING THREE YEAR AVERAGE STANDARD AS ESTABLISHED BY THE PUC**

SAIDI
185

SAIFI
1.12

CAIDI
136

**AVERAGE NUMBER OF CUSTOMERS SERVED**

6337
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Wellsboro Electric Company

Reliability Index

SAIDI

<u>Month</u>	<u>Total Customer Minutes</u>	<u># Customers Served</u>
Jan-18	51699	6327
Feb-18	23250	6327
Mar-18	32400	6329
Apr-18	24623	6332
May-18	30466	6336
Jun-18	22650	6340
July-18	19640	6341
Aug-18	18728	6336
Sept-18	13423	6344
Oct-18	13250	6347
Nov-18	15120	6345
Dec-18	16255	6345
<b>Totals</b>	<b>1210694</b>	<b>76049</b>

Average # Customers Served

6337

ROLLING TWELVE MONTH AVERAGE SAIDI INDEX

191.04

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57.195 Reporting Requirements

Section (e) Item (2)

Wellsboro Electric Company

Reliability Index

SAIFI

<u>Month</u>	<u># Customers Interrupted</u>	<u># Customers Served</u>
Jan-18	322	6327
Feb-18	289	6327
Mar-18	362	6329
April -18	245	6332
May-18	672	6336
June-18	1393	6340
July-18	757	6341
Aug-18	568	6336
Sept-18	1585	6344
Oct-18	822	6347
Nov-18	315	6345
Dec-18	457	6345
<b>Totals</b>	<b>9057</b>	<b>76049</b>

**Average # Customers Served** 6337

**Rolling Twelve Month Average SAIFI Index** 1.43

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Section(e) Item (2)

Wellsboro Electric Company

Reliability Index

CAIDI

<u>Month</u>	<u>Total Customer Minutes</u>	<u># Customers Interrupted</u>
Jan-18	51600	322
Feb-18	26280	269
Mar-18	32400	562
April -18	24523	245
May-18	304560	1672
June-18	229500	1395
July-18	99540	757
Aug-18	60720	566
Sept-18	134233	1585
Oct-18	133260	922
Nov-18	51120	315
Dec-18	62958	447
<b>Totals</b>	<b>1210694</b>	<b>9057</b>

Rolling Twelve Month Average CAIDI Index

**133.67**

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## 57.195 Reporting Requirements

## Section (e) Item (5)

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	1486	76	144222	17.2%
Vehicle	122	2	31499	0.5%
Contractor	0	0	0	0.0%
Decay	10	1	11650	0.2%
Dig-in	0	0	0	0.0%
Elec Overload	5	1	164	0.2%
Equipt Failure	1503	40	144554	9.0%
Fire	17	1	4239	0.2%
Ice	0	0	0	0.0%
Lightning	7	5	254	1.1%
Major Storm	0	0	0	0.0%
Customer Caused	340	21	27864	4.8%
Planned	171	17	24076	3.8%
Power Supply	0	0	0	0.0%
Public Contact	165	7	51253	1.6%
Phone/Cable Co.	0	0	0	0.0%
Rain	0	0	0	0.0%
Tree, On, R.O.W.	2240	80	390631	18.1%
Tree, Off R.O.W.	1950	48	261911	10.9%
Unknown	974	123	110247	27.8%
Vandalism	0	0	0	0.0%
Wind	109	5	6675	1.1%
<b>Total</b>	<b>9162</b>	<b>442</b>	<b>1210694</b>	<b>100.0%</b>

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
12/1/2018	8:53:00 AM	13:45:00 PM	947	Penelec's 34.5Kv in a ROW fell on Wellsboro's 12Kv underbuild blowing fuses, burning taps off and it broke a cross arm on the 3 phase.

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**Summary**

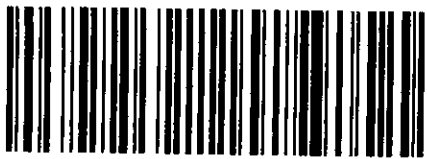
Wellsboro Electric was hit by heavy rain events and wind events during Oct - Dec 2018 which raised our normal outages by 2 times. Several of our outages this quarter had an unknown cause and most of this can be attributed to wind/rain/animals. Trees caused (29.0%) of outages (18.1% On ROW and 10.9% Out of ROW) the normal yearly trimming cycle was completed by Asplundh during the 4Q2018. Animal contacts was our next largest outage item.

There was one Major Event that the PA PUC allowed for exclusion due to a Penelec 34.5Kv line that fell onto the Wellsboro 12Kv underbuild Dresser Circuit causing 947 customers to be interrupted.

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**TO:**

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