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April 26, 2018

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PA PUBLIC UTILITY COMMISSION  
SECRETARY'S BUREAU

Rosemary Chiavetta  
Pennsylvania Public Utility Commission  
P.O. Box 3265  
Harrisburg, PA. 17105-3265

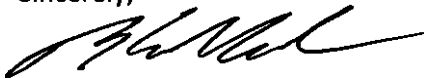
Dear Rosemary Chiavetta, Secretary,

SUBJECT: Quarterly Reliability Report

Enclosed is the quarterly reliability report to the PUC for the 1<sup>st</sup> quarter of 2018 for Wellsboro Electric Company.

If we can be of further assistance, or if you have any questions, feel free to contact me at 570-724-3516.

Sincerely,



Tyler Mead  
Technical Assistant, Engineering and Operations  
Wellsboro Electric Company

# WELLSBORO ELECTRIC COMPANY

## QUARTERLY RELIABILITY REPORT 57.195 REPORTING REQUIREMENTS

First Quarter 2018

Jan-March 2018

SUBMITTED BY



TYLER MEAD

TECHNICAL ASSISTANT, ENGINEERING AND OPERATIONS  
570-724-3516

[tylerm@ctenterprises.org](mailto:tylerm@ctenterprises.org)

## 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.

Outage Cause	# Customers Affected	# of Outages	Customer Minutes	Percentage of Outages
Animals	307	67	13535	30.2%
Vehicles	4	1	6602	0.5%
Contractor	17	1	1049	0.5%
Member Caused	251	3	126	1.4%
Decay	0	0	0	0.0%
Dig-in	0	0	0	0.0%
Electrical Overload	1	1	87	0.5%
Equipment Failure	1527	21	39319	9.5%
Fire	17	1	249	0.5%
Ice,Sleet,Frost	0	0	0	0.0%
Lightning	8	2	415	0.9%
Public Contact	0	0	0	0.0%
Power Supplier	0	0	0	0.0%
Phone/Cable Co	0	0	0	0.0%
Rain	0	0	0	0.0%
Trees	0	0	0	0.0%
Tree, On R.O.W.	969	22	28331	9.9%
Tree, Off R.O.W.	1347	29	84969	13.1%
Unknown Cause	1110	64	87950	28.8%
Vandalism	0	0	0	0.0%
Wind	173	4	2379	1.8%
Planned	119	6	626	2.70%
	5850	222	265637	100.00%

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
No major events in the first quarter of 2018				



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**

**First Quarter 2018**

SAIDI
76.41

SAIFI
0.91

CAIDI
83.91

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

SAIDI
278

SAIFI
1.66

CAIDI
167

**ROLLING THREE YEAR AVERAGE INTERRUPTION INDEXES**

SAIDI
132.96

SAIFI
1.36

CAIDI
92.58

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

SAIDI
185

SAIFI
1.12

CAIDI
136

**AVERAGE NUMBER OF CUSTOMERS SERVED**

6323
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57.195 Reporting Requirements

Section (e) Item (2)

Wellsboro Electric Company

Reliability Index

SAIDI

Month	Total Customer Minutes	# Customers Served
Jan-18	51410	6327
Feb-18	21200	6327
Mar-18	32402	6329
April -17	18985	6314
May-17	144910	6321
June-17	9356	6322
July -17	35615	6323
Aug -17	40423	6326
Sept-17	2257	6317
Oct-17	78600	6320
Nov-17	17640	6319
Dec-17	30300	6326
	483098	75871

Average # (Customers served

6323

ROLLING TWELVE MONTH AVERAGE SAIDI INDEX

**76.41**

57.195 Reporting Requirements

Section (e) Item (2)

Wellsboro Electric Company

Reliability Index

SAIFI

Month	# Customers Interrupted	# Customers Served
Jan-18	322	6327
Feb-18	269	6327
March-18	562	6329
April-17	358	6314

May-17	1148	6321
June-17	155	6322
July-17	467	6323
Aug-17	610	6326
Sept-17	53	6317
Oct-17	710	6320
Nov-17	163	6319
Dec-17	940	6326
	5757	75871

Average Customers Served 6323

Rolling Twelve Month Average SAIFI Index **0.91**

57.195 Reporting Requirements

Section(e) Item (2)

Wellsboro Electric Company

Reliability Index

CAIDI

Month	Total Customer Minutes	# Customers Interrupted
Jan-18	51410	322
Feb-18	21200	269
March-18	32402	562
April-17	18985	358
May-17	144910	1148
June-17	9356	155
July-17	35615	467
Aug-17	40423	610
Sept-17	2257	53
Oct-17	78600	710
Nov-17	17640	163
Dec-17	30300	940
	<b>483098</b>	<b>5757</b>

Rolling Twelve Month Average CAIDI Index **83.91**

ROLLING THREE YEAR WORKSHEET

1st Quarter 2018

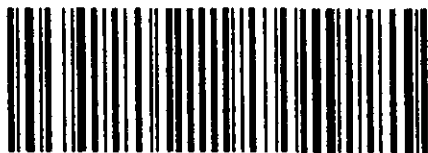
QTR	SAIDI	SAIFI	CAIDI
4-16	363	2.81	130
3-16	113	1.16	97
2-16	96	1.05	92
1-16	86	1.12	77
4-15	81	1.06	76
3-15	82	1.14	72
2-15	80	0.97	82
1-18	76.41	0.91	83.91
4-17	97.1	1.08	90.03
3-17	143	1.35	105
2-17	175	1.78	98
1-17	203	1.88	108
	1595.51	16.31	1110.94
	132.9592	1.359167	92.57833

Wellsboro Electric faired very well this quarter missing much of the wind and heavy snow that affected our area. Several of our outages this quarter had an unknown cause (28.8%).

Most of this can probably attributed to wind but nothing was found to be wrong.

We have been using permanently installed fault indicators to try and help pinpoint faults on the line.

Trees caused (23%) of outages as well. Our trimming cycles have helped keep tree outages to a minimum. Animal contacts are about (30.2%) of our total outages as well. Animal protection is installed on every new transformer as well as problem areas that the crew identifies.



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**WELLSBORO ELECTRIC CO.**

33 Austin Street  
PO Box 138  
WELLSBORO, PA 16901  
(570) 724-3516

**TO**

PA PUBLIC UTILITY COMMISSION  
ROSEMARY CHIAVETTA, SECRETARY  
PO BOX 3265  
HARRISBURG PA 17105-3265