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July 31, 2020

VIA E-FILING

Rosemary Chiavetta, Secretary
Pennsylvania Public Utility Commission
Commonwealth Keystone Building
400 North Street, 2nd Floor
Harrisburg, PA 17120

Re: Joint 2nd Quarter 2020 Reliability Report – Metropolitan Edison Company, Pennsylvania Electric Company, Pennsylvania Power Company and West Penn Power Company – Public Version; Docket No. M-2016-2522508

Dear Secretary Chiavetta:

Pursuant to 52 Pa. Code § 57.195(d) and (e), enclosed for filing on behalf of Metropolitan Edison Company, Pennsylvania Electric Company, Pennsylvania Power Company and West Penn Power Company (collectively, the “Companies”) is the Joint 2nd Quarter 2020 Reliability Report – Public Version (“Joint Report”).

On December 22, 2004, the Companies filed an Application for Protective Order at Docket No. L-00030161. The Application was granted, allowing the Companies to file proprietary versions of the quarterly reliability reports. The Proprietary Version of this Joint Report is being filed under separate cover.

Please feel free to contact me if you have any questions or need additional information regarding this matter.

Sincerely,



Teresa Harrold

Enclosures

- c: As Per Certificate of Service
D. Searfoorce - Bureau of Technical Utility Services (via email)
D. Washko – Bureau of Technical Utility Services (via email)
J. Van Zant – Bureau of Technical Utility Services (via email)

Met-Ed
A FirstEnergy Company

Penelec
A FirstEnergy Company

PennPower
A FirstEnergy Company

**WestPenn
Power**
A FirstEnergy Company



Joint 2020 2nd Quarter Reliability Report

Metropolitan Edison Company,
Pennsylvania Electric Company,
Pennsylvania Power Company, and
West Penn Power Company

Pursuant to 52 Pa. Code § 57.195(d) and (e)

**Joint 2nd Quarter 2020 Reliability Report –
Metropolitan Edison Company (“Met-Ed”),
Pennsylvania Electric Company (“Penelec”),
Pennsylvania Power Company (“Penn Power”), and
West Penn Power Company (“West Penn”)**

Section 57.195(e)(1): 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.¹

Major Event(s)²

FirstEnergy Company	Customers Affected	Time and Duration of the Event		Cause of the Event	Commission Approval Status
Met-Ed	88,597	Duration	101 hours, 58 minutes	Derecho	Pending
		Start Date/Time	June 3, 2020 1122		
		End Date/Time	June 7, 2020 1720		

¹ For purposes of this Joint Report, all reliability reporting is based upon the Pennsylvania Public Utility Commission’s definitions for momentary outages and major events pursuant to 52 Pa. Code § 57.192.

² Pending major events are included in the reliability information provided in Section 57.195(e)(2) and Section 57.195(e)(5).

Section 57.195(e)(2): Rolling 12-month reliability index values (SAIFI, CAIDI, SAIDI, and if available MAIFI) 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 customer interruptions, the number of customers affected, and the customer minutes of interruption. If MAIFI values are provided, the report shall also include the number of customer momentary interruptions.

Reliability Index Values

2Q 2020 (12-Mo Rolling)	Met-Ed ³			Penelec			Penn Power			West Penn		
	Benchmark	12-Month Standard	12-Month Actual	Benchmark	12-Month Standard	12-Month Actual	Benchmark	12-Month Standard	12-Month Actual	Benchmark	12-Month Standard	12-Month Actual
SAIFI	1.15	1.38	1.56	1.26	1.52	1.62	1.12	1.34	1.08	1.05	1.26	1.16
CAIDI	117	140	186	117	141	143	101	121	160	170	204	178
SAIDI	135	194	291	148	213	231	113	162	173	179	257	206
MAIFI⁴			0.934			0.517			0.045			
Customers Served⁵	566,797			578,844			164,407			718,405		
Number of Sustained Interruptions	12,958			13,633			3,249			12,728		
Customers Affected	885,881			939,646			177,389			830,420		
Customer Minutes	164,657,151			133,963,024			28,389,646			148,115,857		
Number of Customer Momentary Interruptions	207,420			128,090			2,188					

³ Pending major event is included in the reliability information.

⁴ MAIFI values are not available for West Penn.

⁵ Represents the average number of customers served during the reporting period.

Unique Events Occurring in 2Q 2020:

Met-Ed

- The morning of Thursday, April 9, 2020, a strong front moved through Pennsylvania, including the Met-Ed service territory. On Thursday, April 9, 2020, this front caused sustained winds throughout Met-Ed service territory at 30-40 miles per hour between 2pm and 4pm. Additionally, high wind gusts of approximately 68 miles per hour and heavy rains were experienced impacting 35,145 customers. The reliability impact of the storm was 18.0 minutes of System Average Interruption Duration Index (“SAIDI”), 0.06 of System Average Interruption Frequency Index (“SAIFI”), and an overall storm Customer Average Interruption Duration Index (“CAIDI”) of 289.7 minutes.
- On Wednesday, June 3, 2020, a derecho (a strong, long-lived thunderstorm causing a swath of wind damage) moved through the Met-Ed service territory. The derecho produced rain, lightning, and damaging winds with gusts of approximately 83 miles per hour impacting 88,597 customers. The reliability impact of the storm was 88.6 minutes of SAIDI, 0.2 of SAIFI, and an overall storm CAIDI of 566.2 minutes.

Penelec

- Beginning the evening of Tuesday, April 7, 2020, a strong front moved through Pennsylvania, including the Penelec service territory. This front caused storms with heavy lightning, high wind gusts upwards of 60 miles per hour and rain in the Penelec service territory. On Thursday, April 9, the passage of a cold front brought more high winds upwards of 60 miles per hour causing additional damage to the Penelec service territory impacting 24,599 customers. The reliability impact of the storm was 12.2 minutes of SAIDI, 0.04 of SAIFI, and an overall storm CAIDI of 286.3 minutes.
- Beginning the evening of Friday, April 17, 2020, and continuing through the morning of Saturday, April 18, 2020, a snowstorm moved through northern Pennsylvania, including the Penelec service territory. The snow was wet and heavy causing downed wires and trees impacting 13,629 customers. The reliability impact of the storm was 7.6 minutes of SAIDI, 0.02 of SAIFI, and an overall storm CAIDI of 320.96 minutes.

Penn Power

- Beginning the afternoon of Wednesday, June 10, 2020, a strong storm system caused by an incoming cold front moved through Pennsylvania, including the Penn Power service territory. This system produced a line of severe storms with heavy rains, lightning, and strong winds with maximum wind gusts of 55 miles per hour experienced in some areas impacting 10,405 customers. The reliability impact of the storm was 28.3 minutes of SAIDI, 0.06 of SAIFI, and an overall storm CAIDI of 446.3 minutes.

West Penn

- Beginning the early morning of Wednesday, April 8, 2020, a strong front moved through Pennsylvania, including the West Penn service territory. This front caused storms with heavy lightning, high wind gusts of approximately 75 miles per hour, and tornadoes impacting 59,885 customers. This front also caused additional rain and peak wind gusts of approximately 54 miles per hour on Thursday. The reliability impact of the storm was 30.3 minutes of SAIDI, 0.1 SAIFI, and an overall storm CAIDI of 363.06 minutes.
- Beginning the early morning of Monday, April 13, 2020, a storm front moved through Pennsylvania, including the West Penn service territory. This front caused high wind gusts of 62 miles per hour and heavy rains in the West Penn service territory impacting 20,717 customers. This front also caused peak sustained winds of 40 miles per hour on Monday. The reliability impact of the storm was 4.5 minutes of SAIDI, 0.03 of SAIFI, and an overall storm CAIDI of 154.2 minutes.
- Beginning the afternoon of Wednesday, June 10, 2020, a thunderstorm moved throughout Pennsylvania, including the West Penn service territory. This front caused high wind gusts of 46 miles per hour and heavy rain in the West Penn service territory impacting 27,342 customers. The already saturated ground coupled with sustained winds caused a significant number of tree-related outages. The reliability impact of the storm was 12.2 minutes of SAIDI, 0.04 of SAIFI, and an overall storm CAIDI of 321.5 minutes.

Section 57.195(e)(3): Rolling 12-month reliability index values (SAIFI, CAIDI, SAIDI, and if available, MAIFI) and other pertinent information such as customers served, number of interruptions, customer minutes interrupted, number of lockouts, and so forth, for the worst performing 5% of the circuits in the system. An explanation of how the EDC defines its worst performing circuits shall be included.

Worst Performing Circuits – Reliability Indices

The methodology used to identify worst performing circuits is based on both SAIFI and SAIDI. The methodology consists of the following steps:

1. For each circuit, calculate a circuit SAIFI using only distribution-caused outages.
2. Select the worst 20% of circuits based on the highest circuit SAIFI.
3. Rank the selected circuits based on SAIDI using only distribution-caused customer minutes.
4. Select 5% of the circuits based on the highest customer minutes. These circuits are then identified as the worst performing circuits.

Met-Ed, Penelec, Penn Power, and West Penn's rankings of the 5% Worst Performing Circuits are provided in Attachment A to this report.

Section 57.195(e)(4): Specific remedial efforts taken and planned for the worst performing 5% of the circuits identified in paragraph (3).

Worst Performing Circuits – Remedial Actions

Met-Ed, Penelec, Penn Power, and West Penn's Remedial Actions for Worst Performing Circuits are provided in Attachment B to this report.

Section 57.195(e)(5): A rolling 12-month breakdown and analysis of outage causes during the preceding 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.

Outages by Cause

Outages by Cause – Met-Ed

Outage by Cause				
2nd Quarter 2020 12-Month Rolling	Met-Ed			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Customer Minutes
Trees off ROW - tree	77,870,061	2,773	247,132	47.29%
Equipment failure	28,794,975	2,708	239,884	17.49%
Unknown	8,794,235	1,368	63,833	5.34%
Line failure	7,831,293	720	38,076	4.76%
Trees off ROW - limb	6,878,908	592	36,099	4.18%
Vehicle	6,773,482	317	42,409	4.11%
Lightning	6,092,638	340	29,371	3.70%
Forced outage	3,875,757	431	67,166	2.35%
Trees on ROW	3,763,740	263	9,987	2.29%
Wind	3,626,153	124	8,999	2.20%
Animal	2,763,535	1,849	32,791	1.68%
Human error - company	2,324,454	77	34,718	1.41%
Bird	1,240,990	469	8,582	0.75%
Trees - sec/service	1,129,991	588	1,897	0.69%
Object contact with line	938,612	60	6,316	0.57%
Overload	592,719	45	4,040	0.36%
Ice	495,421	24	1,293	0.30%
Human error - non-company	362,893	90	2,467	0.22%
UG dig-up	270,702	29	1,933	0.16%
Customer equipment	101,259	41	6,917	0.06%
Other utility - non-electric	43,725	6	603	0.03%
Other electric utility	40,421	6	892	0.02%
Previous lightning	23,100	25	65	0.01%
Contamination	17,280	3	148	0.01%
Fire	8,886	7	67	0.01%
Switching error	1,746	1	194	0.00%
Vandalism	175	2	2	0.00%
Total	164,657,151	12,958	885,881	100%

Proposed Solutions – Met-Ed

Met-Ed analyzes its outage data to develop solutions for improving reliability. The following paragraphs identify the top outage causes for the rolling twelve-month period ending June 30, 2020, and associated actions designed to address these outage causes.

To address outages caused by trees, Met-Ed performs cycle-based tree trimming and enhanced tree trimming in select locations. Enhanced tree trimming removes healthy limbs overhanging primary conductors. Met-Ed's options under the law are strictly limited when it comes to all forms of off-right-of-way ("ROW") tree management. However, Met-Ed is legally permitted to identify priority off-ROW trees that are dead, dying, diseased, leaning, and significantly encroaching the corridor and remove those trees when customer consent is obtained or easement rights permit. Met-Ed is very active in pursuing this option, where available. Trees identified as a potential cause of a future outage are removed to prevent an interruption of electrical service to Met-Ed's customers. Met-Ed continues its program to mitigate trees subject to damage from the Emerald Ash Borer.

To reduce the likelihood of equipment and line failure outages, Met-Ed follows inspection and maintenance ("I&M") programs that set forth schedules for regular inspections of distribution and substation facilities. These programs are geared towards specific components such as capacitors, poles, circuits, transformers, radio-controlled switches, substations, and reclosers. Equipment identified is repaired or replaced as appropriate.

Outages by Cause – Penelec

Outage by Cause				
2nd Quarter 2020 12-Month Rolling	Penelec			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Customer Minutes
Trees off ROW - tree	44,514,479	1,748	208,725	33.23%
Equipment failure	23,272,830	2,641	224,318	17.37%
Line failure	22,194,001	1,757	161,649	16.57%
Unknown	9,907,547	1,767	56,894	7.40%
Lightning	8,850,165	668	67,819	6.61%
Forced outage	6,105,944	1,037	60,871	4.56%
Vehicle	5,124,627	296	35,629	3.83%
Animal	3,536,327	1,645	31,684	2.64%
Trees off ROW - limb	2,768,735	321	25,099	2.07%
Bird	1,384,980	381	13,903	1.03%
Human error - non-company	1,104,244	86	5,764	0.82%
Human error - company	966,702	52	21,163	0.72%
Ice	943,460	60	3,114	0.70%
Object contact with line	771,854	37	5,386	0.58%
Trees - sec/service	721,151	726	2,328	0.54%
Other electric utility	714,870	109	3,392	0.53%
Trees on ROW	294,706	98	3,126	0.22%
Overload	290,739	35	3,150	0.22%
Vandalism	104,312	16	879	0.08%
Customer equipment	103,029	19	1,947	0.08%
Other utility - non-electric	73,402	7	431	0.05%
UG dig-up	69,627	55	415	0.05%
Fire	55,679	13	363	0.04%
Wind	35,115	7	180	0.03%
Contamination	33,383	19	135	0.02%
Switching Error	10,776	4	1,218	0.01%
Previous lightning	10,340	29	64	0.01%
Total	133,963,024	13,633	939,646	100%

Proposed Solutions – Penelec

Penelec analyzes its outage data to develop solutions for improving reliability. The following paragraphs identify the top outage causes for the rolling twelve-month period ending June 30, 2020 and the associated actions designed to address these outage causes.

To reduce outages caused by trees, Penelec performs cycle-based tree trimming which removes selected incompatible trees within the clearing zone corridor, removes certain defective limbs that are overhanging primary conductors, controls selected incompatible brush, and removes off-ROW priority trees. Penelec's options under the law are strictly limited when it comes to all forms of off-ROW tree management. However, Penelec is legally permitted to identify priority off-ROW trees that are dead, dying, diseased, leaning, and significantly encroaching the corridor and remove those trees when customer consent is obtained or easement rights permit. Penelec is very active in pursuing this option, where available. Trees identified as a potential cause of a future outage are removed to prevent an interruption of electrical service to Penelec's customers. Penelec continues its program to mitigate trees subject to damage from the Emerald Ash Borer.

To reduce the likelihood of outages caused by equipment and line failure, Penelec follows I&M programs that set forth schedules for regular inspections of distribution and substation facilities. These programs are geared towards specific components such as capacitors, poles, circuits, transformers, radio-controlled switches, substations, and reclosers. Equipment identified is repaired or replaced as appropriate.

Outages by Cause – Penn Power

Outage by Cause				
2nd Quarter 2020 12-Month Rolling	Penn Power			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Customer Minutes
Trees off ROW - tree	15,614,832	872	60,702	55.00%
Equipment failure	2,842,309	357	34,188	10.01%
Lightning	2,358,394	264	12,802	8.31%
Vehicle	1,997,077	87	14,309	7.03%
Line failure	1,789,835	286	12,904	6.30%
Unknown	884,853	134	15,665	3.12%
Animal	835,040	415	10,557	2.94%
Trees off ROW - limb	721,485	152	4,299	2.54%
Forced outage	578,384	61	5,135	2.04%
Bird	307,646	315	3,333	1.08%
Trees - sec/service	208,371	185	600	0.73%
Trees on ROW	85,819	7	220	0.30%
Human error - non-company	50,769	25	569	0.18%
Overload	33,453	14	416	0.12%
Object contact with line	27,768	5	1,002	0.10%
UG dig-up	20,920	12	98	0.07%
Human error - company	16,370	5	478	0.06%
Previous lightning	11,099	35	80	0.04%
Customer equipment	3,107	12	14	0.01%
Ice	1,161	2	9	0.00%
Fire	624	2	7	0.00%
Vandalism	330	2	2	0.00%
Total	28,389,646	3,249	177,389	100%

Proposed Solutions – Penn Power

Penn Power analyzes its outage data to develop solutions for improving reliability. The following paragraphs identify the top outage causes for the rolling twelve-month period ending June 30, 2020 and the associated actions designed to address these outage causes.

To address outages caused by trees, Penn Power performs tree trimming which removes selected incompatible trees within the clearing zone corridor, removes certain defective limbs that are overhanging primary conductors, controls selected incompatible brush, and removes off-ROW priority trees. Penn Power's options under the law are strictly limited when it comes to all forms of off-ROW tree management. However, Penn Power is legally permitted to identify priority off-ROW trees that are dead, dying, diseased, leaning, and significantly encroaching the corridor and remove those trees when customer consent is obtained or easement rights permit. Penn Power is very active in pursuing this option, where available. Trees identified as a potential cause of a future outage are removed to prevent an interruption of electrical service to Penn Power's customers. In addition, Penn Power performs enhanced trimming to circuits that experience high customer interruption minutes due to vegetation, which removes limbs overhanging primary conductors.

To reduce the likelihood of outages caused by equipment and line failure outages, Penn Power follows I&M programs that set forth schedules for regular inspections of distribution facilities. These programs are geared towards specific components such as capacitors, poles, circuits, transformers, and reclosers. Equipment identified is repaired or replaced as appropriate.

Outages by Cause – West Penn

Outage by Cause				
2nd Quarter 2020 12-Month Rolling	West Penn			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Customer Minutes
Trees off ROW - tree	72,234,793	3,287	268,218	48.77%
Line failure	16,854,674	1,344	87,351	11.38%
Equipment failure	16,016,665	2,072	114,294	10.81%
Unknown	9,289,273	1,765	79,498	6.27%
Vehicle	7,706,435	304	68,846	5.20%
Trees on ROW	4,287,344	460	20,556	2.89%
Forced outage	3,746,001	508	55,978	2.53%
Wind	3,646,580	143	14,571	2.46%
Trees off ROW - limb	3,350,290	190	25,221	2.26%
Animal	3,122,207	1,485	34,321	2.11%
Lightning	2,062,509	171	18,813	1.39%
Human error - non-company	1,192,717	65	8,615	0.81%
Ice	1,042,656	19	2,079	0.70%
Bird	777,549	372	8,865	0.52%
Human error - company	722,579	49	12,451	0.49%
Object contact with line	639,841	37	2,405	0.43%
Vandalism	389,657	5	960	0.26%
Trees - sec/service	332,886	366	937	0.22%
Other electric utility	271,587	10	788	0.18%
Customer equipment	221,872	15	2,050	0.15%
UG dig-up	80,494	36	1,559	0.05%
Overload	60,230	9	1,578	0.04%
Fire	43,401	7	335	0.03%
Other utility - non-electric	16,099	5	80	0.01%
Previous Lightning	6,413	3	22	0.00%
Switching error	1,105	1	29	0.00%
Total	148,115,857	12,728	830,420	100%

Proposed Solutions – West Penn

West Penn analyzes its outage data to develop solutions for improving reliability. The following paragraphs identify the top outage causes for the rolling twelve-month period ending June 30, 2020, and the associated actions designed to address these outage causes.

To reduce outages caused by trees, West Penn performs cycle-based tree trimming which removes selected incompatible trees within the clearing zone corridor, removes certain defective limbs that are overhanging primary conductors, controls selected incompatible brush, and removes off-ROW priority trees. West Penn's options under the law are strictly limited when it comes to all forms of off-ROW tree management. However, West Penn is legally permitted to identify priority off-ROW trees that are dead, dying, diseased, leaning, and significantly encroaching the corridor and remove those trees when customer consent is obtained or easement rights permit. West Penn is very active in pursuing this option, where available. Trees identified as a potential cause of a future outage are removed to prevent an interruption of electrical service to West Penn's customers. West Penn continues its program to mitigate trees subject to damage from the Emerald Ash Borer.

To reduce the likelihood of equipment and line failures, West Penn follows I&M programs that set forth schedules for regular inspections of distribution and substation facilities. These programs are geared towards specific components such as capacitors, poles, circuits, transformers, substations, and reclosers. Equipment identified is repaired or replaced as appropriate.

Section 57.195(e)(6): Quarterly and year-to-date information on progress toward meeting transmission and distribution inspection and maintenance goals/objectives (for first, second and third quarter reports only).

Inspection and Maintenance 2020		Met-Ed			Penelec			Penn Power			West Penn		
		Planned	Completed		Planned	Completed		Planned	Completed		Planned	Completed	
		Annual	2Q	YTD	Annual	2Q	YTD	Annual	2Q	YTD	Annual	2Q	YTD
Forestry	Transmission (Miles)	272.70	20.65	210.31	517.98	103.11	332.34	56.05	5.66	52.83	195.15	31.68	113.37
	Distribution (Miles)	2,878	533	1,139	3,746	277	1,261	1,126	252	642	4,400	945	2,002
Transmission	Aerial Patrols	2	1	1	2	1	1	2	1	1	2	1	1
	Groundline	1,895	0	0	79	502	502	1,511	2,007	2,007	772	96	96
Substation	Substation Inspections Class A	418	0	209	784	0	392	148	0	74	950	0	475
	Substation Inspections Class B	418	209	209	784	392	392	148	74	74	950	475	475
	Substation Inspections Class C	1,672	418	836	3,137	785	1,570	592	148	296	3,800	950	1,900
	Transformers	143	93	104	401	96	367	9	7	7	381	126	343
	Breakers	74	43	51	338	117	178	12	7	7	369	151	216
	Relay Schemes	58	12	58	180	64	133	32	7	32	100	22	59
Distribution	Capacitors	4,758	0	4,758	8,683	0	8,683	978	0	975	1,315	0	1,315
	Poles	36,000	9,769	9,769	41,584	18,887	21,611	11,027	0	11,045	38,373	10,893	29,020
	Reclosers	1,233	548	1,207	2,591	0	0	930	0	919	3,947	948	3,621
	Radio-Controlled Switches	1,010	232	505	2,652	852	1,257	Penn Power has no radio-controlled switches			West Penn has no radio-controlled switches		

General Note: Unless specified otherwise, all inspections are reported on a unit basis rather than on a location basis.

Section 57.195(e)(7): Quarterly and year-to-date information on budgeted versus actual transmission and distribution operation and maintenance expenditures in total and detailed by the EDC's own functional account code as available. (For first, second and third quarter reports only).

Budgeted vs. Actual T&D Operation & Maintenance Expenditures⁶

This portion of the report is confidential.

⁶ Budgets are subject to change.

Section 57.195(e)(8): Quarterly and year-to-date information on budgeted versus actual transmission and distribution capital expenditures in total and detailed by the EDC's own functional account code or FERC account code as available. (For first, second and third quarter reports only).

Budgeted vs. Actual T&D Capital⁷ Expenditures⁸

This portion of the report is confidential.

⁷ General note: Capital reported on Generally Accepted Accounting Principles (GAAP) basis.

⁸ Budgets are subject to change.

Section 57.195(e)(9): Dedicated staffing levels for transmission and distribution operation and maintenance at the end of the quarter, in total and by specific category (for example, linemen, technician, and electrician).⁹

Staffing Levels

Met-Ed 2020												
		Staffing Level				Staff Added in Quarter			Staff Lost in Quarter			Plan to Hire in 2021 ¹²
Department	Position	1Q	2Q	3Q	4Q	New Hire – Experienced	New Hire – PSI Student	Other ¹⁰	Retirement	Voluntary Separation	Other ¹¹	
Distribution	Line Leader	53	52						1			
	Line Troubleshooter	33	33									
	Lineman	125	125									
Substation	Substation Leader	15	15									
	Substation Employee	69	68								1	
Transmission	Line Leader	2	2									
	Lineman	9	8							1		
	Total	306	303			0	0	0	1	1	1	

⁹ As ordered on March 30, 2015 at Docket Nos. D-2014-2365991, D-2014-2365992, D-2014-2365993, and D-2014-2365994, *Implementation Plan of the Focused Management Audit of Metropolitan Edison Company, Pennsylvania Electric Company, Pennsylvania Power Company, and West Penn Power Company* (Appendix A) (5): The Companies are directed to provide additional detail as described below in the staff reporting section in the Quarterly Reliability Reports. For each staff member added, provide information on whether they were a new hire, if they are already at the journeyman, or other experienced level of training. For each staff member lost, provide the reason for the loss (retirement, voluntary separation, etc.). The number of staff in each category that the Company is planning to hire in the next calendar year.

¹⁰ Includes transfers and promotions.

¹¹ Includes transfers, voluntary separations, and promotions.

¹² Hiring plan to be provided annually in the 4Q report.

Penelec 2020												
		Staffing Level				Staff Added in Quarter			Staff Lost in Quarter			Plan to Hire in 2021 ¹⁵
Department	Position	1Q	2Q	3Q	4Q	New Hire – Experienced	New Hire – PSI Student	Other ¹³	Retirement	Voluntary Separation	Other ¹⁴	
Distribution	Line Leader	67	66					2	2		1	
	Line Troubleshooter	63	62							1		
	Lineman	142	140						1	1		
Substation	Substation Leader	35	32					1	2		2	
	Substation Employee	39	39					8			8	
Transmission	Line Leader	5	5									
	Lineman	19	19									
	Total	370	363					11	5	2	11	

¹³ Includes transfers and promotions.

¹⁴ Includes transfers, involuntary separations, and promotions.

¹⁵ Hiring plan to be provided annually in the 4Q report.

Penn Power 2020												
		Staffing Level				Staff Added in Quarter			Staff Lost in Quarter			Plan to Hire in 2021 ¹⁸
Department	Position	1Q	2Q	3Q	4Q	New Hire – Experienced	New Hire – PSI Student	Other ¹⁶	Retirement	Voluntary Separation	Other ¹⁷	
Distribution	Line Leader	22	21						1			
	Line Troubleshooter	9	8								1	
	Lineman	47	46						1			
Substation	Substation Leader	5	5									
	Substation Employee	21	20								1	
Transmission	Line Leader	1	1									
	Lineman	5	5									
	Total	110	106						2		2	

¹⁶ Includes transfers, promotions, and promotions within a position.

¹⁷ Includes transfers, involuntary separations, promotions and promotions within a position.

¹⁸ Hiring plan to be provided annually in the 4Q report.

West Penn 2020												
		Staffing Level				Staff Added in Quarter			Staff Lost in Quarter			Plan to Hire in 2021 ²¹
Department	Position	1Q	2Q	3Q	4Q	New Hire – Experienced	New Hire – PSI Student	Other ¹⁹	Retirement	Voluntary Separation	Other ²⁰	
Distribution	Line Leader	62	65					5			2	
	Line Troubleshooter	60	57					3	3		3	
	Lineman	123	121					2		1	3	
Substation	Substation Leader	21	22					1				
	Substation Employee	72	71					4			5	
Transmission	Line Leader	1	1									
	Lineman	4	4									
	Total	343	341					15	3	1	13	

¹⁹ Includes transfers, promotions, and promotions within a position.

²⁰ Includes transfers, involuntary separations, promotions and promotions within a position.

²¹ Hiring plan to be provided annually in the 4Q report.

Section 57.195(e)(10): Quarterly and year-to-date information on contractor hours and dollars for transmission and distribution operation and maintenance.

Contractor Expenditures

Contractor expenses are billed on a lump sum basis and as such, hourly information is not available.

This portion of the report is confidential.

Section 57.195(e)(11): Monthly call-out acceptance rate for transmission and distribution maintenance workers presented in terms of both the percentage of accepted calls-out and the amount of time it takes the EDC to obtain the necessary personnel. A brief description of the EDC's call-out procedure should be included when appropriate.

Call-out Acceptance Rate

Call-out percentage is defined as the number of workers accepting to total call outs.

This portion of the report is confidential.

*Call-out Response*²³

This portion of the report is confidential.

²³ During the Covid-19 pandemic, the call-outs are completed in a POD cluster to reduce potential exposure to employees. Due to this temporary process change, the call-out percentage calculation has become a manual calculation process handled at the Operating Company level.

Call-Out Procedure:

When an event occurs, Met-Ed, Penelec, Penn Power and West Penn dispatch a troubleman to find and assess the cause of the outage. If the troubleman is unable to repair the damage and a crew is required, the troubleman will inform the Distribution Control Center (“DCC”). The DCC and/or the Customer Operations Center’s person on duty will then initiate the call-out process until desired staffing levels required to complete the restoration have been achieved.

The number of unique workers called for an outage event is recorded and represents the total calls, or opportunities, for an outage event. The number of unique workers who accept the opportunity is recorded and represents the workers accepting. The elapsed time is calculated by taking the date and time of the first employee called for an event minus the date and time of the last accepting employee for that event. The call-out results from all outages experienced during a particular month are added together to derive a total value for each field.

During the Covid-19 pandemic, crews have been placed in work PODS to limit employee’s potential exposure. Each POD ranges between three and eight crew members. For an event, the entire POD team is called making every effort to keep POD members together without mixing different POD teams. This process change can impact the call-out response time and percentages.

ATTACHMENT A

Worst Performing Circuits - Reliability Indices

Met-Ed													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
1	No Bangor	00826-3	Easton	3,196	143	1	3,702,897	18,190	6.53	1,158.60	5.69	203.57	1.270
2	Fox Hill	00816-3	Stroudsburg	3,399	67	0	3,409,873	6,122	6.02	1,003.20	1.80	556.99	1.440
3	Shawnee	00895-3	Stroudsburg	3,964	109	1	3,150,561	8,875	5.56	794.79	2.24	354.99	1.040
4	Mountain	00744-4	Dillsburg	1,833	73	1	1,733,286	6,839	3.06	945.60	3.73	253.44	0.000
5	Bernville	00787-1	Hamburg	1,845	89	0	1,601,325	3,333	2.83	867.93	1.81	480.45	0.000
6	Shawnee	00899-3	Stroudsburg	1,664	40	3	1,312,916	5,024	2.32	789.01	3.02	261.33	1.370
7	Bern Church	00789-1	Reading	1,430	70	0	1,249,194	3,280	2.20	873.56	2.29	380.85	0.230
8	S Nazareth	00809-3	Easton	3,240	57	1	1,212,809	6,931	2.14	374.32	2.14	174.98	0.000
9	W Boyertown	00715-1	Boyertown	1,699	49	1	1,135,095	5,668	2.00	668.10	3.34	200.26	0.780
10	Taxville	00575-4	York	2,227	51	3	1,117,396	6,700	1.97	501.75	3.01	166.78	1.870
11	Barto	00706-1	Boyertown	2,890	126	1	1,030,122	8,439	1.82	356.44	2.92	122.07	0.000
12	Flying Hills	00777-1	Reading	1,783	88	0	984,652	3,596	1.74	552.24	2.02	273.82	0.000
13	Yoe	00559-4	York	2,733	38	1	931,008	5,523	1.64	340.65	2.02	168.57	0.950
14	Hill	00734-4	York	1,644	46	1	866,949	3,078	1.53	527.34	1.87	281.66	1.090
15	Mc Knights Gap	00774-1	Reading	1,579	42	1	852,928	2,612	1.50	540.17	1.65	326.54	0.000
16	North Cornwall	00610-2	Lebanon	2,188	69	1	824,043	6,976	1.45	376.62	3.19	118.13	6.050
17	Mesherystown	00292-4	Hanover	734	4	3	790,332	2,210	1.39	1,076.75	3.01	357.62	0.000
18	Water Gap	00109-3	Stroudsburg	205	12	1	787,043	414	1.39	3,839.23	2.02	1,901.07	0.000
19	Huffs Church	00600-1	Boyertown	1,502	90	1	755,703	2,404	1.33	503.13	1.60	314.35	0.000
20	Crossroads	00728-4	York	1,172	60	0	745,128	2,101	1.31	635.77	1.79	354.65	0.150
21	Crossroads	00729-4	York	875	29	4	730,315	3,475	1.29	834.65	3.97	210.16	0.000
22	Shawnee	00833-3	Stroudsburg	892	30	2	730,171	3,833	1.29	818.58	4.30	190.50	2.770
23	Windsor	00797-4	York	1,550	85	1	692,998	7,521	1.22	447.10	4.85	92.14	6.930
24	Lynnville	00737-1	Hamburg	1,071	74	1	691,796	2,485	1.22	645.93	2.32	278.39	2.430
25	Yorkana	00715-4	York	1,802	47	2	682,278	5,546	1.20	378.62	3.08	123.02	3.000
26	Schuylkill Ave	00157-1	Reading	1,617	9	2	664,419	3,397	1.17	410.90	2.10	195.59	0.000
27	Mohnton	00144-1	Reading	970	19	1	661,544	2,166	1.17	682.00	2.23	305.42	0.000
28	Hill	00737-4	York	2,273	39	0	655,656	5,011	1.16	288.45	2.20	130.84	2.990
29	Lyons	00729-1	Reading	1,284	82	0	652,341	2,405	1.15	508.05	1.87	271.24	0.000
30	Windsor	00795-4	York	1,019	79	0	603,136	2,579	1.06	591.89	2.53	233.86	0.000
31	Bernville	00786-1	Hamburg	1,849	79	1	600,668	3,317	1.06	324.86	1.79	181.09	0.050
32	Mountain	00743-4	Dillsburg	1,030	31	1	599,911	3,714	1.06	582.44	3.61	161.53	0.000
33	Broad Street	00776-2	Lebanon	1,929	23	1	572,319	3,942	1.01	296.69	2.04	145.18	4.950
34	S Hamb	00801-1	Hamburg	2,080	63	0	565,994	3,174	1.00	272.11	1.53	178.32	0.840
35	Bern Church	00791-1	Reading	646	34	3	546,661	3,236	0.96	846.22	5.01	168.93	0.000

Met-Ed													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
36	Shawnee	00860-3	Stroudsburg	2,662	60	1	534,914	7,215	0.94	200.94	2.71	74.14	1.030
37	Dillsburg	00746-4	Dillsburg	2,559	46	0	516,401	4,865	0.91	201.80	1.90	106.15	2.990
38	Annaville	00740-2	Lebanon	958	24	1	498,194	1,468	0.88	520.04	1.53	339.37	2.000
39	Fox Hill	00852-3	Stroudsburg	794	31	0	478,063	1,703	0.84	602.09	2.14	280.72	0.000

Penelec													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
1	Dubois	00137-23	Dubois	3,200	122	0	1,575,018	7,824	2.72	492.19	2.45	201.31	3.226
2	Logan	00700-81	Lewistown	991	48	0	1,510,515	6,755	2.61	1,524.23	6.82	223.61	0.642
3	Meyersdale North	00022-12	Somerset	1,551	51	1	1,487,174	4,451	2.57	958.85	2.87	334.12	1.002
4	Piney	00523-51	Oil City	1,508	54	2	1,458,044	5,402	2.52	966.87	3.58	269.91	1.094
5	North Warren	00207-41	Warren	1,363	81	5	1,441,098	9,254	2.49	1,057.30	6.79	155.73	2.272
6	Grover	00527-63	Towanda	1,046	70	1	1,202,116	2,869	2.08	1,149.25	2.74	419.00	0.004
7	Thompson	00436-65	Montrose	1,327	85	0	1,197,325	2,770	2.07	902.28	2.09	432.25	0.457
8	East Sayre	00518-61	Towanda	905	35	1	1,178,135	3,541	2.04	1,301.81	3.91	332.71	0.130
9	N Meshoppen Tran	00534-65	Montrose	821	56	2	1,174,428	2,725	2.03	1,430.48	3.32	430.98	0.933
10	Lake Como	00787-65	Montrose	893	31	1	1,111,373	3,498	1.92	1,244.54	3.92	317.72	1.555
11	Somerset	00017-12	Somerset	1,367	41	1	944,605	2,597	1.63	691.01	1.90	363.73	0.000
12	Utica Junction	00331-51	Oil City	641	43	2	902,858	2,732	1.56	1,408.51	4.26	330.48	0.000
13	Fairview Altoona	00005-71	Altoona	1,413	9	0	902,610	2,328	1.56	638.79	1.65	387.72	0.000
14	Warren South	00220-41	Warren	2,841	92	0	868,730	5,186	1.50	305.78	1.83	167.51	0.524
15	Wellsboro	00324-63	Mansfield Pa	251	31	3	843,012	862	1.46	3,358.61	3.43	977.97	1.884
16	Marienville	00328-51	Oil City	1,097	51	0	835,777	2,552	1.44	761.88	2.33	327.50	0.397
17	Hooversville	00019-12	Somerset	1,604	47	0	814,582	6,207	1.41	507.84	3.87	131.24	0.000
18	Mansfield	00559-63	Mansfield Pa	560	33	2	791,975	2,352	1.37	1,414.24	4.20	336.72	0.780
19	Tiffany	00435-65	Montrose	1,273	40	1	734,252	2,487	1.27	576.79	1.95	295.24	0.412
20	Covington	00729-63	Mansfield Pa	777	33	0	734,033	1,327	1.27	944.70	1.71	553.15	0.999
21	Logan	00701-81	Lewistown	1,304	28	0	720,968	2,038	1.25	552.89	1.56	353.76	0.057
22	Two Mile	00127-42	Bradford	1,282	46	1	719,319	3,531	1.24	561.09	2.75	203.72	0.000
23	Springboro	00237-52	Meadville	2,532	70	0	706,410	6,934	1.22	278.99	2.74	101.88	1.472
24	Tiffany	00440-65	Montrose	1,197	37	0	705,552	5,689	1.22	589.43	4.75	124.02	0.163
25	Philipsburg	00162-22	Philipsburg	2,827	61	2	695,100	6,479	1.20	245.88	2.29	107.29	0.892
26	Mcveytown	00112-81	Lewistown	1,291	54	0	674,467	2,668	1.17	522.44	2.07	252.80	0.000
27	Hooversville	00018-12	Somerset	750	35	0	664,160	1,763	1.15	885.55	2.35	376.72	0.384
28	Laurel Lake Sub Tran	00449-65	Montrose	551	42	7	660,815	3,310	1.14	1,199.30	6.01	199.64	4.031
29	Ansonia	00740-63	Mansfield Pa	171	23	0	656,845	673	1.13	3,841.20	3.94	976.00	2.982
30	Samuel Rea Car Shop	00031-71	Altoona	1,692	19	0	656,273	2,704	1.13	387.87	1.60	242.70	0.000
31	Reedsville	00127-81	Lewistown	925	20	0	652,232	1,454	1.13	705.12	1.57	448.58	0.001
32	Industrial Park	00796-65	Montrose	357	14	3	650,670	1,830	1.12	1,822.61	5.13	355.56	0.000

Penelec													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
33	Madera	00166-22	Philipsburg	1,429	35	0	626,787	3,103	1.08	438.62	2.17	201.99	0.553
34	Industrial	00170-81	Lewistown	765	21	3	582,416	3,373	1.01	761.33	4.41	172.67	0.000
35	Curryville	00644-71	Altoona	1,785	73	0	575,992	3,803	1.00	322.68	2.13	151.46	0.000
36	East Pike	00095-13	Indiana	4,568	33	2	565,110	8,226	0.98	123.71	1.80	68.70	1.399
37	Lake Como	00788-65	Montrose	633	29	1	563,946	1,640	0.97	890.91	2.59	343.87	0.327
38	Russell Hill	00282-65	Montrose	999	61	0	540,283	1,821	0.93	540.82	1.82	296.70	0.000
39	Union City Sub	00206-43	Erie	2,882	111	0	526,775	5,693	0.91	182.78	1.98	92.53	1.561
40	North Warren	00596-41	Warren	1,125	56	2	526,296	3,897	0.91	467.82	3.46	135.05	2.519
41	Thompson	00446-65	Montrose	842	47	0	524,784	1,690	0.91	623.26	2.01	310.52	0.000
42	Dubois Central	00119-23	Dubois	1,309	53	0	514,383	2,339	0.89	392.96	1.79	219.92	0.689
43	Brookville	00125-23	Dubois	616	29	0	507,021	4,239	0.88	823.09	6.88	119.61	3.651
44	Green Garden	00539-31	Erie	1,064	11	1	502,020	2,223	0.87	471.82	2.09	225.83	0.000
45	French Road	00222-31	Erie	1,446	21	1	496,206	3,948	0.86	343.16	2.73	125.69	0.397
46	Edgewood	00089-13	Indiana	866	18	2	485,306	2,858	0.84	560.40	3.30	169.81	0.215
47	Shawville	00151-21	Clearfield	2,066	41	1	477,997	8,636	0.83	231.36	4.18	55.35	1.479
48	Meyersdale North	00004-12	Somerset	582	21	1	475,491	1,648	0.82	816.99	2.83	288.53	1.000
49	Waverly	00164-66	Towanda	960	26	2	472,181	2,436	0.82	491.86	2.54	193.83	0.999
50	Tunkhannock	00533-65	Montrose	1,200	41	0	468,976	2,108	0.81	390.81	1.76	222.47	0.000
51	East Pike	00094-13	Indiana	322	5	0	467,627	2,471	0.81	1,452.26	7.67	189.25	0.000
52	Lake Como	00786-65	Montrose	392	18	0	461,074	938	0.80	1,176.21	2.39	491.55	0.000
53	Port Allegany Sub	00151-42	Bradford	480	34	1	456,188	856	0.79	950.39	1.78	532.93	0.000
54	Sabinsville Trans	00567-63	Mansfield Pa	145	20	1	448,711	802	0.78	3,094.56	5.53	559.49	0.000
55	Utica Junction	00318-51	Oil City	825	60	0	445,777	1,468	0.77	540.34	1.78	303.66	0.028
56	Birmingham	00168-22	Philipsburg	1,080	43	0	441,180	1,714	0.76	408.50	1.59	257.40	0.000
57	Tyrone North Sub	00643-22	Philipsburg	1,478	5	0	438,454	2,586	0.76	296.65	1.75	169.55	0.000
58	Dubois	00131-23	Dubois	580	23	0	438,075	1,284	0.76	755.30	2.21	341.18	0.103
59	Erie East	00234-31	Erie	1,018	46	1	428,843	2,499	0.74	421.26	2.45	171.61	0.089
60	East Towanda	00525-62	Towanda	446	27	3	416,557	3,554	0.72	933.98	7.97	117.21	0.061
61	Salix	00070-11	Johnstown	2,307	41	0	412,442	5,143	0.71	178.78	2.23	80.19	1.997
62	Warren South	00219-41	Warren	319	25	2	384,922	1,344	0.66	1,206.65	4.21	286.40	0.000

Penn Power													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI*
1	Enon Valley	D-545	New Castle	1,023	58	0	762,399	1,444	4.64	745.26	1.41	527.98	0.00
2	Camp Reynolds	W-134	Clark	1,736	72	1	717,271	4,110	4.36	413.17	2.37	174.52	0.00
3	BMF	W760	Zelienople	2,659	21	2	654,348	4,108	3.98	246.09	1.54	159.29	0.00
4	Grant Street	W421	New Castle	935	9	1	574,990	2,036	3.50	614.96	2.18	282.41	0.00
5	Darlington	D-536	Zelienople	1,065	46	0	541,786	1,326	3.30	508.72	1.25	408.59	0.00
6	Seneca	W700	Zelienople	1,044	59	1	501,240	2,974	3.05	480.11	2.85	168.54	0.00
7	Henderson	W-281	Clark	697	29	0	490,799	1,084	2.99	704.16	1.56	452.77	0.00
8	Knox	D509	Zelienople	980	21	0	461,554	1,516	2.81	470.97	1.55	304.46	0.00
9	Ingomar	W630	Zelienople	1,737	11	0	442,520	2,164	2.69	254.76	1.25	204.49	0.00

West Penn Power												
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI
1	Piney Fork	Gillhall	Charleroi	2,252	22	1	2,121,152	3,846	2.95	941.90	1.71	551.52
2	Piney Fork	Cochran Mill	Charleroi	1,192	8	1	1,777,216	2,750	2.47	1,490.95	2.31	646.26
3	Smithton	Fitzhenry	Charleroi	1,151	25	2	1,696,527	3,616	2.36	1,473.96	3.14	469.17
4	Lovedale	Township	Charleroi	1,622	41	0	1,408,110	5,126	1.96	868.13	3.16	274.70
5	Westraver	Pittsburgh Coal	Charleroi	1,845	30	2	1,389,873	8,961	1.93	753.32	4.86	155.10
6	Piney Fork	Stoltz	Charleroi	2,253	20	2	1,188,282	5,520	1.65	527.42	2.45	215.27
7	Dutch Fork	Claysville	Washington Pa	1,585	70	1	1,172,572	4,172	1.63	739.79	2.63	281.06
8	St. Clair	Mclaughlin	Boyce	648	30	2	1,164,711	4,259	1.62	1,797.39	6.57	273.47
9	Charleroi	Speers	Charleroi	1,423	54	1	1,107,091	2,723	1.54	778.00	1.91	406.57
10	Buckeye No.3	Paisley	Jefferson	667	16	0	1,085,609	1,362	1.51	1,627.60	2.04	797.07
11	Rutan	Bristoria	Jefferson	1,143	90	0	1,078,554	2,900	1.50	943.62	2.54	371.92
12	Franklin	Rogersville	Jefferson	811	63	2	1,077,888	3,109	1.50	1,329.09	3.83	346.70
13	Whiteley	Mt. Morris	Jefferson	1,061	48	0	1,027,977	2,525	1.43	968.88	2.38	407.12
14	Smithton	Smithton	Charleroi	989	25	0	1,017,308	2,006	1.41	1,028.62	2.03	507.13
15	Amity	Banetown	Washington Pa	1,472	51	0	945,694	2,259	1.31	642.46	1.53	418.63
16	Butler	Center Ave	Butler	1,638	34	1	919,912	4,286	1.28	561.61	2.62	214.63
17	Saltsburg	Saltsburg	Arnold	1,389	55	1	895,061	2,834	1.24	644.39	2.04	315.83
18	Bethlen	Laurel Valley	Latrobe	1,304	75	3	882,511	5,640	1.23	676.77	4.33	156.47
19	Purcell	Artemas	Hyndman	597	26	1	878,580	1,890	1.22	1,471.66	3.17	464.86
20	North Washington	Poke Run	Arnold	1,229	64	0	869,823	2,817	1.21	707.75	2.29	308.78
21	Smith	Florence	Washington Pa	806	54	3	842,580	5,732	1.17	1,045.38	7.11	147.00
22	Finleyville	Finleyville	Charleroi	1,302	33	0	832,285	3,821	1.16	639.24	2.93	217.82
23	Marvindale	Clermont	St Marys	851	16	1	811,735	3,593	1.13	953.86	4.22	225.92
24	Pittsburgh Mills	Tawny Run	Arnold	845	30	1	783,142	2,982	1.09	926.80	3.53	262.62
25	Enlow	Summit	Boyce	1,806	8	0	745,297	5,439	1.03	412.68	3.01	137.03
26	Murrycrest	Sardis Road	Jeannette	1,409	35	3	732,237	8,991	1.02	519.69	6.38	81.44
27	Kiski Valley Distrib	Kittanning Rd	Arnold	1,786	32	1	714,052	4,760	0.99	399.81	2.67	150.01
28	St. Clair	Skyridge	Boyce	899	19	3	708,886	3,939	0.98	788.53	4.38	179.97

West Penn Power												
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI
29	Murrycrest	Christy Road	Jeannette	1,033	45	1	699,025	2,092	0.97	676.69	2.03	334.14
30	Waterville	Waterville	State College	354	24	2	695,676	2,333	0.97	1,965.19	6.59	298.19
31	Driftwood	Driftwood	St Marys	989	36	0	680,818	2,435	0.95	688.39	2.46	279.60
32	Hilliards	Hilliards	Butler	892	27	1	675,567	2,232	0.94	757.36	2.50	302.67
33	Large	Large	Charleroi	548	17	1	657,005	1,168	0.91	1,198.91	2.13	562.50
34	Bethel Park	Clifton	Boyce	937	14	5	649,962	4,872	0.90	693.66	5.20	133.41
35	White Valley	Cloverleaf	Jeannette	2,139	23	1	646,625	3,310	0.90	302.30	1.55	195.35
36	Shaffers Corner	Stewart School	Arnold	1,995	21	1	644,760	6,643	0.90	323.19	3.33	97.06
37	Blue Ridge Summit	Sabillasville	Waynesboro	962	36	0	642,866	2,874	0.89	668.26	2.99	223.68
38	Bentleyville	Bentleyville	Charleroi	1,085	18	0	641,923	1,980	0.89	591.63	1.82	324.20
39	Piney Fork	Knothole	Charleroi	1,609	25	1	607,865	4,330	0.84	377.79	2.69	140.38
40	Bethlen	Darlington	Latrobe	1,244	69	0	603,848	2,594	0.84	485.41	2.09	232.79

ATTACHMENT B

Worst Performing Circuits – Remedial Actions

As ordered on March 30, 2015 at Docket Nos. D-2014-2365991, D-2014-2365992, D-2014-2365993, and D-2014-2365994, *Implementation Plan of the Focused Management Audit of Metropolitan Edison Company, Pennsylvania Electric Company, Pennsylvania Power Company, and West Penn Power Company* (Appendix A)(1): The Companies are directed to provide additional detail in their reporting of the 5% of worst performing circuits in the Commission Quarterly Reliability Reports to highlight those circuits that appear multiple times on Quarterly Reliability Reports, but not necessarily in four quarters in a calendar year. For each Quarterly Reliability Report filed pursuant to 52 Pa. Code § 57.195, this additional detail shall include highlighting those worst performing circuits that have appeared in two or more Quarterly Reliability Reports in the past four quarters.

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
1	No Bangor	00826-3	Easton	3,196	143
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	6.5	Trees Off ROW-Tree	68%	3Q 2019
	SAIDI	1,159	Equipment Failure	15%	4Q 2019
	SAIFI	5.69	Trees Off ROW-Limb	11%	1Q 2020
	CAIDI	204	All Other	6%	2Q 2020
	Customer Minutes	3,702,897			
	Customers Affected	18,190			
	Remedial Action Planned or Taken			Status	Progress
	Repair items identified during circuit inspection			Complete	Sep-19
	Repair items identified during circuit inspection			Complete	Oct-19
	Install TripSaver Recloser 1			To be completed 2020	50%
	Construct circuit tie Phase 1			To be completed 2020	50%
	Construct circuit tie Phase 2			To be completed 2020	50%
Rank	Substation	Circuit	District	Customers	Outages
2	Fox Hill	00816-3	Stroudsburg	3,399	67
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	6.0	Trees Off ROW-Tree	38%	4Q 2019
	SAIDI	1,003	Equipment Failure	35%	1Q 2020
	SAIFI	1.80	Trees Off ROW-Limb	14%	2Q 2020
	CAIDI	557	All Other	13%	
	Customer Minutes	3,409,873			
	Customers Affected	6,122			
	Remedial Action Planned or Taken			Status	Progress
	Overhead circuit inspection			Complete	Sep-19
	Enhance tree removal			Complete	Nov-19
	Thermovision and overhead inspection			Complete	Apr-20
	Repair items identified during circuit inspection			To be completed 2020	60%
	On cycle tree trimming			To be completed 2020	0%

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
3	Shawnee	00895-3	Stroudsburg	3,964	109
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	5.6	Trees Off ROW-Tree	70%	3Q 2019
	SAIDI	795	Ice	11%	4Q 2019
	SAIFI	2.24	Trees Off ROW-Limb	8%	1Q 2020
	CAIDI	355	All Other	11%	2Q 2020
	Customer Minutes	3,150,561			
	Customers Affected	8,875			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			To be completed 2020	56%
	Thermovision and overhead inspection			To be completed 2020	0%
	Install TripSaver Recloser			To be completed 2020	50%
Rank	Substation	Circuit	District	Customers	Outages
4	Mountain	00744-4	Dillsburg	1,833	73
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.1	Trees Off ROW-Tree	79%	3Q 2019
	SAIDI	946	Line Failure	7%	4Q 2019
	SAIFI	3.73	Equipment Failure	5%	1Q 2020
	CAIDI	253	All Other	9%	2Q 2020
	Customer Minutes	1,733,286			
	Customers Affected	6,839			
	Remedial Action Planned or Taken			Status	Progress
	Replace pole from inspection			Complete	Aug-19
	Upgrade Zone 2 recloser to EMS radio-controlled			Complete	Oct-19
	Enhanced tree trimming			Complete	Dec-19
	Overhead circuit inspection			Complete	Jul-20

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
5	Bernville	00787-1	Hamburg	1,845	89
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.8	Lightning	55%	2Q 2020
	SAIDI	868	Trees Off ROW-Tree	29%	
	SAIFI	1.81	Line Failure	7%	
	CAIDI	480	All Other	9%	
	Customer Minutes	1,601,325			
	Customers Affected	3,333			
	Remedial Action Planned or Taken			Status	Progress
	Targeted Mainline Circuit Rehabilitation #1			Complete	Oct- 19
	Targeted Mainline Circuit Rehabilitation #2			Complete	Jan- 20
	Targeted Mainline Circuit Rehabilitation #3			Complete	Feb- 20
	Replace UG cable in Heidelberg URD			Complete	Jan- 20
	Replace Recloser			Complete	July- 20
	Install TripSaver Recloser #1			To be completed 2020	50%
	Install TripSaver Recloser #2			To be completed 2020	50%
Rank	Substation	Circuit	District	Customers	Outages
6	Shawnee	00899-3	Stroudsburg	1,664	40
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.3	Trees Off ROW-Tree	92%	4Q 2019
	SAIDI	789	Equipment Failure	7%	1Q 2020
	SAIFI	3.02	Forced Outage	1%	2Q 2020
	CAIDI	261	All Other	0%	
	Customer Minutes	1,312,916			
	Customers Affected	5,024			
	Remedial Action Planned or Taken			Status	Progress
	Thermovision and overhead inspection			Complete	Feb-19
	Three-phase overhead inspection			Complete	Jan-19

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
7	Bern Church	00789-1	Reading	1,430	70
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.2	Trees Off ROW-Tree	84%	3Q 2019
	SAIDI	874	Unknown	5%	4Q 2019
	SAIFI	2.29	Wind	4%	1Q 2020
	CAIDI	381	All Other	7%	2Q 2020
	Customer Minutes	1,249,194			
	Customers Affected	3,280			
	Remedial Action Planned or Taken			Status	Progress
	Targeted forestry inspection			Complete	Aug-19
	Enhanced Tree Trimming			Complete	Oct-19
	Targeted forestry inspection			Complete	Jun-20
	Targeted tree trimming Milestone Dr			To be completed 2020	0%
	Install TripSaver Recloser #1			To be completed 2020	50%
	Install TripSaver Recloser #2			To be completed 2020	50%
	Install TripSaver Recloser #3			To be completed 2020	50%
	Install additional circuit tap protection			To be completed 2020	50%
Rank	Substation	Circuit	District	Customers	Outages
8	S Nazareth	00809-3	Easton	3,240	57
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.1	Trees Off ROW-Tree	77%	3Q 2019
	SAIDI	374	Equipment Failure	8%	4Q 2019
	SAIFI	2.14	Trees Off ROW-Limb	7%	1Q 2020
	CAIDI	175	All Other	8%	2Q 2020
	Customer Minutes	1,212,809			
	Customers Affected	6,931			
	Remedial Action Planned or Taken			Status	Progress
	Install Supervisory Control and Data Acquisition (SCADA) recloser #1			Complete	Dec-19
	Install Supervisory Control and Data Acquisition (SCADA) recloser #2			Complete	Dec-19
	Install Supervisory Control and Data Acquisition (SCADA) recloser #3			Complete	Dec-19
	Install Supervisory Control and Data Acquisition (SCADA) recloser #4			Complete	Dec-19
	Construct circuit tie			Complete	Jun-20
	Thermovision and overhead inspection			Complete	Jun-20
	Targeted Mainline Circuit Rehabilitation			Complete	Apr-20
	On cycle tree trimming			To be completed 2020	93%
	Install TripSaver Recloser #1			To be completed 2020	50%
	Install TripSaver Recloser #2			To be completed 2021	0%
	Install TripSaver Recloser #3			To be completed 2021	0%

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
9	W Boyertown	00715-1	Boyertown	1,699	49
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.0	Bird	40%	2Q 2020
	SAIDI	668	Trees Off ROW-Tree	26%	
	SAIFI	3.34	Equipment Failure	16%	
	CAIDI	200	All Other	18%	
	Customer Minutes	1,135,095			
	Customers Affected	5,668			
	Remedial Action Planned or Taken			Status	Progress
	Replace crossarm from inspection			Complete	Feb-20
	Thermovision and overhead inspection			Complete	May-20
	Replace arrester from thermovision inspection #1			To be completed 2020	99%
	Replace arrester from thermovision inspection #2			To be completed 2020	99%
	Replace arrester from thermovision inspection #3			To be completed 2020	99%
	Replace arrester from thermovision inspection #4			To be completed 2020	99%
	Install TripSaver Recloser			To be completed 2020	50%
	Replace cutout from thermovision inspection			To be completed 2020	50%
Rank	Substation	Circuit	District	Customers	Outages
10	Taxville	00575-4	York	2,227	51
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.0	Trees Off ROW-Tree	63%	3Q 2019
	SAIDI	502	Ug Dig-Up	21%	4Q 2019
	SAIFI	3.01	Equipment Failure	10%	1Q 2020
	CAIDI	167	All Other	6%	2Q 2020
	Customer Minutes	1,117,396			
	Customers Affected	6,700			
	Remedial Action Planned or Taken			Status	Progress
	Install Supervisory Control and Data Acquisition (SCADA) recloser #1			complete	Sep-19
	Engineering Review - Identify for Targeted Mainline Inspection			complete	Sep-19
	Repair/Replace items from Overhead Inspection			To be completed 2020	17%

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
11	Barto	00706-1	Boyertown	2,890	126
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.8	Trees Off ROW-Tree	48%	3Q 2019
	SAIDI	356	Equipment Failure	24%	1Q 2020
	SAIFI	2.92	Vehicle	17%	2Q 2020
	CAIDI	122	All Other	11%	
	Customer Minutes	1,030,122			
	Customers Affected	8,439			
	Remedial Action Planned or Taken			Status	Progress
	Install Supervisory Control and Data Acquisition (SCADA) switch #1			Complete	Jan-20
	Install Supervisory Control and Data Acquisition (SCADA) switch #2			Complete	Jan-20
	Install Supervisory Control and Data Acquisition (SCADA) switch #4			Complete	Jan-20
	Install Supervisory Control and Data Acquisition (SCADA) switch #5			Complete	Jan-20
	Install Supervisory Control and Data Acquisition (SCADA) recloser #1			Complete	Feb-20
	Mainline pole replacement from inspection #1			Complete	Jun-20
	Mainline pole replacement from inspection #2			To be completed 2020	50%
	On cycle tree trimming			To be completed 2020	55%
	Overhead circuit inspection			To be completed 2020	0%
Rank	Substation	Circuit	District	Customers	Outages
12	Flying Hills	00777-1	Reading	1,783	88
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.7	Trees Off ROW-Tree	56%	3Q 2019
	SAIDI	552	Equipment Failure	32%	4Q 2019
	SAIFI	2.02	Trees Off ROW-Limb	6%	1Q 2020
	CAIDI	274	All Other	6%	2Q 2020
	Customer Minutes	984,652			
	Customers Affected	3,596			
	Remedial Action Planned or Taken			Status	Progress
	Overhead circuit inspection			Complete	Mar-20
	On cycle tree trimming			Complete	Mar-20
	Install TripSaver Recloser #1			To be completed 2020	50%
	Install TripSaver Recloser #2			To be completed 2020	50%
	Install TripSaver Recloser #3			To be completed 2020	50%

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
13	Yoe	00559-4	York	2,733	38
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.6	Unknown	60%	2Q 2020
	SAIDI	341	Equipment Failure	24%	
	SAIFI	2.02	Trees Off ROW-Tree	8%	
	CAIDI	169	All Other	8%	
	Customer Minutes	931,008			
	Customers Affected	5,523			
	Remedial Action Planned or Taken			Status	Progress
	Install additional Supervisory Control and Data Acquisition (SCADA) switch #1			Complete	Sep-19
	Install additional Supervisory Control and Data Acquisition (SCADA) switch #2			Complete	Sep-19
	Targeted Mainline Circuit Rehabilitation			Complete	Feb-20
	Post Storm Patrol			Complete	Jun-20
Rank	Substation	Circuit	District	Customers	Outages
14	Hill	00734-4	York	1,644	46
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.5	Unknown	70%	3Q 2019
	SAIDI	527	Trees Off ROW-Tree	16%	4Q 2019
	SAIFI	1.87	Trees Off ROW-Limb	7%	1Q 2020
	CAIDI	282	All Other	7%	2Q 2020
	Customer Minutes	866,949			
	Customers Affected	3,078			
	Remedial Action Planned or Taken			Status	Progress
	Repair/replace high priority items identified during overhead circuit patrol			Complete	Jul-19
	Replace priority pole			Complete	Oct-19
	Three-phase overhead inspection			Complete	Oct-19
	Repair/Replace items from Capacitor Inspection #3			Complete	Mar-20
	On cycle tree trimming			To be completed 2020	40%
	Install TripSaver Recloser #1			To be completed 2021	0%
	Install TripSaver Recloser #2			To be completed 2021	0%

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
15	Mc Knights Gap	00774-1	Reading	1,579	42
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.5	Trees Off ROW-Tree	74%	2Q 2020
	SAIDI	540	Unknown	7%	
	SAIFI	1.65	Equipment Failure	6%	
	CAIDI	327	All Other	13%	
	Customer Minutes	852,928			
	Customers Affected	2,612			
	Remedial Action Planned or Taken			Status	Progress
	Targeted forestry inspection			Complete	Apr-20
	Targeted forestry inspection			Complete	Jun-20
	Install TripSaver Recloser #1			To be completed 2020	50%
	Install TripSaver Recloser #2			To be completed 2020	50%
	On cycle tree trimming			To be completed 2020	0%
Rank	Substation	Circuit	District	Customers	Outages
16	North Cornwall	00610-2	Lebanon	2,188	69
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.5	Trees Off ROW-Tree	68%	3Q 2019
	SAIDI	377	Equipment Failure	15%	4Q 2019
	SAIFI	3.19	Unknown	11%	1Q 2020
	CAIDI	118	All Other	6%	2Q 2020
	Customer Minutes	824,043			
	Customers Affected	6,976			
	Remedial Action Planned or Taken			Status	Progress
	Repair/replace high priority items identified during inspection			Complete	Oct-19
	Remove switch that limits backfeed capacity			Complete	Dec-19
	Porcelain cutout replacement in the lockout zone			Complete	Dec-19
	On cycle tree trimming			To be completed 2020	95%

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
17	Mcsherrystown	00292-4	Hanover	734	4
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.4	Equipment Failure	61%	2Q 2020
	SAIDI	1,077	Human Error - Company	38%	
	SAIFI	3.01	Forced Outage	1%	
	CAIDI	358	All Other	0%	
	Customer Minutes	790,332			
	Customers Affected	2,210			
	Remedial Action Planned or Taken			Status	Progress
	Upgrade Regulator			To be completed 2020	99%
	Upgrade Recloser			To be completed 2020	99%
	Install MOAB on source circuit			To be completed 2020	99%
	Cycle tree trimming			To be completed 2020	0%
Rank	Substation	Circuit	District	Customers	Outages
18	Water Gap	00109-3	Stroudsburg	205	12
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.4	Trees Off ROW-Tree	82%	4Q 2019
	SAIDI	3,839	Trees - Sec/Service	15%	1Q 2020
	SAIFI	2.02	Trees On Row	3%	2Q 2020
	CAIDI	1,901	All Other	0%	
	Customer Minutes	787,043			
	Customers Affected	414			
	Remedial Action Planned or Taken			Status	Progress
	Create new source			To be completed 2020	50%
	Overhead circuit inspection			To be completed 2020	0%

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
19	Huffs Church	00600-1	Boyertown	1,502	90
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.3	Trees Off ROW-Tree	59%	3Q 2019
	SAIDI	503	Vehicle	25%	4Q 2019
	SAIFI	1.60	Equipment Failure	4%	2Q 2020
	CAIDI	314	All Other	12%	
	Customer Minutes	755,703			
	Customers Affected	2,404			
	Remedial Action Planned or Taken			Status	Progress
	Replace mainline pole from inspection			Complete	Jul-19
	Replace crossarm from inspection			Complete	Sep-19
	Repair mainline guy wire from inspection			Complete	Oct-19
	Replace mainline crossarm			Complete	Nov-19
	Engineering circuit tie addition review			Complete	Dec-19
	Overhead circuit inspection			Complete	Jun-20
	Install Supervisory Control and Data Acquisition (SCADA) switch #1			To be completed 2020	50%
	Install Supervisory Control and Data Acquisition (SCADA) switch #2			To be completed 2020	50%
	Install Supervisory Control and Data Acquisition (SCADA) switch #3			To be completed 2020	50%
	Create additional circuit tie			To be completed 2020	50%
	On cycle tree trimming			To be completed 2020	0%
Rank	Substation	Circuit	District	Customers	Outages
20	Crossroads	00728-4	York	1,172	60
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.3	Vehicle	53%	3Q 2019
	SAIDI	636	Equipment Failure	23%	4Q 2019
	SAIFI	1.79	Trees Off ROW-Tree	8%	1Q 2020
	CAIDI	355	All Other	16%	2Q 2020
	Customer Minutes	745,128			
	Customers Affected	2,101			
	Remedial Action Planned or Taken			Status	Progress
	Install Supervisory Control and Data Acquisition (SCADA) switch #3			Complete	Nov-19
	Replaced Capacitor control			Complete	Feb-20
	On cycle tree trimming			Complete	Jul-19
	Install TripSaver Recloser			To be completed 2020	0%
	Install Supervisory Control and Data Acquisition (SCADA) switch			To be completed 2020	0%
	Install Supervisory Control and Data Acquisition (SCADA) switch			To be completed 2020	0%

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
21	Crossroads	00729-4	York	875	29
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.3	Equipment Failure	42%	3Q 2019
	SAIDI	835	Unknown	26%	4Q 2019
	SAIFI	3.97	Lightning	22%	1Q 2020
	CAIDI	210	All Other	10%	2Q 2020
	Customer Minutes	730,315			
	Customers Affected	3,475			
	Remedial Action Planned or Taken			Status	Progress
	Rehabilitation - Replace H-Frame structures			Complete	Oct-19
	Install Supervisory Control and Data Acquisition (SCADA) switch #1			Complete	Nov-19
	Install Supervisory Control and Data Acquisition (SCADA) recloser #1			Complete	Dec-19
	Replace recloser #1 2019			Complete	Oct-19
	Replace recloser #2 2019			Complete	Oct-19
	On cycle tree trimming			Complete	Jul-19
Rank	Substation	Circuit	District	Customers	Outages
22	Shawnee	00833-3	Stroudsburg	892	30
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.3	Unknown	31%	1Q 2020
	SAIDI	819	Trees Off ROW-Tree	28%	2Q 2020
	SAIFI	4.30	Equipment Failure	27%	
	CAIDI	190	All Other	14%	
	Customer Minutes	730,171			
	Customers Affected	3,833			
	Remedial Action Planned or Taken			Status	Progress
	Construct circuit tie			Complete	Mar-20
	Thermovision and overhead inspection			Complete	May-20

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
23	Windsor	00797-4	York	1,550	85
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.2	Trees Off ROW-Tree	63%	3Q 2019
	SAIDI	447	Forced Outage	24%	4Q 2019
	SAIFI	4.85	Trees Off ROW-Limb	3%	1Q 2020
	CAIDI	92	All Other	10%	2Q 2020
	Customer Minutes	692,998			
	Customers Affected	7,521			
	Remedial Action Planned or Taken			Status	Progress
	Install additional Supervisory Control and Data Acquisition (SCADA) switch #1			Complete	Sep-19
	Install additional Supervisory Control and Data Acquisition (SCADA) switch #2			Complete	Sep-19
	Install additional Supervisory Control and Data Acquisition (SCADA) switch #3			Complete	Sep-19
	Install additional Supervisory Control and Data Acquisition (SCADA) switch #4			Complete	Sep-19
	Replace/repair high priority items identified during overhead circuit patrol			Complete	Oct-19
	Targeted Mainline Inspection			Complete	Oct-19
	Enhanced tree removal			Complete	Dec-19
	Upgrade fusing			To be completed 2020	20%
Rank	Substation	Circuit	District	Customers	Outages
24	Lynnville	00737-1	Hamburg	1,071	74
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.2	Trees Off ROW-Tree	72%	2Q 2020
	SAIDI	646	Unknown	15%	
	SAIFI	2.32	Equipment Failure	8%	
	CAIDI	278	All Other	5%	
	Customer Minutes	691,796			
	Customers Affected	2,485			
	Remedial Action Planned or Taken			Status	Progress
	Replace crossarm brace from inspection #1			Complete	Apr- 20
	Replace crossarm brace from inspection #2			Complete	Apr- 20
	Replace crossarm brace from inspection #3			Complete	Apr- 20
	Replace crossarm brace from inspection #4			Complete	Apr- 20
	Replace crossarm brace from inspection #5			Complete	Mar- 20
	Overhead circuit inspection			To be completed 2020	0%

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
25	Yorkana	00715-4	York	1,802	47
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.2	Trees Off ROW-Limb	30%	2Q 2020
	SAIDI	379	Trees Off ROW-Tree	27%	
	SAIFI	3.08	Unknown	24%	
	CAIDI	123	All Other	19%	
	Customer Minutes	682,278			
	Customers Affected	5,546			
	Remedial Action Planned or Taken			Status	Progress
	Replace/repair high priority items identified during overhead circuit patrol			Complete	Feb-20
	Post Storm Patrol			Complete	Apr-20
	On cycle tree trimming			To be completed 2020	25%
Rank	Substation	Circuit	District	Customers	Outages
26	Schuylkill Ave	00157-1	Reading	1,617	9
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.2	Unknown	46%	2Q 2020
	SAIDI	411	Vehicle	40%	
	SAIFI	2.10	Equipment Failure	5%	
	CAIDI	196	All Other	9%	
	Customer Minutes	664,419			
	Customers Affected	3,397			
	Remedial Action Planned or Taken			Status	Progress
	Targeted forestry inspection			Complete	Apr-20
	Replace mainline crossarms, insulators, cutouts			Complete	Jun-20
	Targeted forestry inspection			To be completed 2020	0%
Rank	Substation	Circuit	District	Customers	Outages
27	Mohnton	00144-1	Reading	970	19
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.2	Trees Off ROW-Tree	93%	1Q 2020
	SAIDI	682	Equipment Failure	4%	2Q 2020
	SAIFI	2.23	Line Failure	3%	
	CAIDI	305	All Other	0%	
	Customer Minutes	661,544			
	Customers Affected	2,166			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			Complete	Sep-19
	Overhead circuit inspection			Complete	Jan-20
	Targeted forestry inspection			Complete	Feb-20

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
28	Hill	00737-4	York	2,273	39
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.2	Equipment Failure	72%	4Q 2019
	SAIDI	288	Trees Off ROW-Tree	18%	1Q 2020
	SAIFI	2.20	Human Error -Non-Company	5%	2Q 2020
	CAIDI	131	All Other	5%	
	Customer Minutes	655,656			
	Customers Affected	5,011			
	Remedial Action Planned or Taken			Status	Progress
	Install Supervisory Control and Data Acquisition (SCADA) switch			Complete	Dec-19
	On cycle tree trimming			To be completed 2020	62%
	Install additional mainline switch			To be completed 2021	0%
Rank	Substation	Circuit	District	Customers	Outages
29	Lyons	00729-1	Reading	1,284	82
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.2	Trees Off ROW-Tree	53%	2Q 2020
	SAIDI	508	Equipment Failure	23%	
	SAIFI	1.87	Trees On Row	10%	
	CAIDI	271	All Other	14%	
	Customer Minutes	652,341			
	Customers Affected	2,405			
	Remedial Action Planned or Taken			Status	Progress
	Create additional circuit tie			Complete	Apr-20
	On cycle tree trimming			To be completed 2020	62%
	Install TripSaver			To be completed 2020	50%
	Install Supervisory Control and Data Acquisition (SCADA) switch			To be completed 2020	50%
	Install Supervisory Control and Data Acquisition (SCADA) switch			To be completed 2020	50%
	Install Supervisory Control and Data Acquisition (SCADA) switch			To be completed 2020	50%

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
30	Windsor	00795-4	York	1,019	79
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.1	Trees Off ROW-Tree	78%	4Q 2019
	SAIDI	592	Equipment Failure	10%	1Q 2020
	SAIFI	2.53	Trees Off ROW-Limb	6%	2Q 2020
	CAIDI	234	All Other	6%	
	Customer Minutes	603,136			
	Customers Affected	2,579			
	Remedial Action Planned or Taken			Status	Progress
	Replace/repair high priority items identified during overhead circuit patrol			Complete	Sep-19
	Install additional Supervisory Control and Data Acquisition (SCADA) switch			Complete	Aug-19
	Circuit Rehabilitation Inspection			Complete	Oct-19
	Targeted mainline inspection			Complete	Dec-19
	Enhanced tree removal			Complete	Dec-19
	Replace/repair high priority items identified during overhead circuit patrol			Complete	Mar-20
	Targeted Mainline Circuit Rehabilitation			Complete	Jun-20
	Install Animal Guard			To be completed 2020	10%

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
31	Bernville	00786-1	Hamburg	1,849	79
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.1	Trees Off ROW-Tree	43%	3Q 2019
	SAIDI	325	Lightning	23%	4Q 2019
	SAIFI	1.79	Equipment Failure	18%	1Q 2020
	CAIDI	181	All Other	16%	2Q 2020
	Customer Minutes	600,668			
	Customers Affected	3,317			
	Remedial Action Planned or Taken			Status	Progress
	Replace mainline crossarm braces from inspection			Complete	Sep-19
	Upgrade mainline recloser			Complete	Sep-19
	Replace crossarm brace from thermovision inspection			Complete	Jan- 20
	Replace crossarm brace from thermovision inspection			Complete	Jan- 20
	Install Supervisory Control and Data Acquisition (SCADA) recloser			Complete	Aug- 19
	Install Supervisory Control and Data Acquisition (SCADA) switch #1			Complete	Oct- 19
	Install Supervisory Control and Data Acquisition (SCADA) switch #2			Complete	Oct- 19
	Targeted Mainline Circuit Rehabilitation #1			Complete	Jan- 20
	Targeted Mainline Circuit Rehabilitation #2			Complete	Jan- 20
	Targeted Mainline Circuit Rehabilitation #3			To be completed 2020	50%
	Install TripSaver Recloser #1			To be completed 2020	50%
	Install TripSaver Recloser #2			To be completed 2020	50%
	Install TripSaver Recloser #3			To be completed 2020	50%
	Install Supervisory Control and Data Acquisition (SCADA) switch #3			To be completed 2020	50%
	Install Supervisory Control and Data Acquisition (SCADA) switch #4			To be completed 2020	50%
	Install Supervisory Control and Data Acquisition (SCADA) switch #5			To be completed 2020	50%
	Install Supervisory Control and Data Acquisition (SCADA) switch #6			To be completed 2020	50%
	Install Supervisory Control and Data Acquisition (SCADA) switch #7			To be completed 2020	50%
	Install Supervisory Control and Data Acquisition (SCADA) recloser #1			To be completed 2020	50%
	Install Supervisory Control and Data Acquisition (SCADA) recloser #2			To be completed 2020	50%
	Install Supervisory Control and Data Acquisition (SCADA) recloser #3			To be completed 2020	50%

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
32	Mountain	00743-4	Dillsburg	1,030	31
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.1	Trees Off ROW-Limb	76%	1Q 2020
	SAIDI	582	Trees Off ROW-Tree	17%	2Q 2020
	SAIFI	3.61	Trees On Row	3%	
	CAIDI	162	All Other	4%	
	Customer Minutes	599,911			
	Customers Affected	3,714			
	Remedial Action Planned or Taken			Status	Progress
	Install Supervisory Control and Data Acquisition (SCADA) recloser			Complete	Dec-19
	Targeted Zone 2 Circuit Rehabilitation			Complete	Feb-20
	Overhead circuit inspection			Complete	Mar-20
Rank	Substation	Circuit	District	Customers	Outages
33	Broad Street	00776-2	Lebanon	1,929	23
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.0	Trees Off ROW-Tree	48%	3Q 2019
	SAIDI	297	Equipment Failure	42%	1Q 2020
	SAIFI	2.04	Human Error - Company	5%	2Q 2020
	CAIDI	145	All Other	5%	
	Customer Minutes	572,319			
	Customers Affected	3,942			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			To be completed 2020	0%

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
34	S Hamburg	00801-1	Hamburg	2,080	63
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.0	Trees Off ROW-Tree	54%	2Q 2020
	SAIDI	272	Forced Outage	16%	
	SAIFI	1.53	Vehicle	13%	
	CAIDI	178	All Other	17%	
	Customer Minutes	565,994			
	Customers Affected	3,174			
	Remedial Action Planned or Taken			Status	Progress
	Replace crossarm from inspection			Complete	Nov- 19
	Replace crossarm from inspection			Complete	Nov- 19
	Replace crossarm from inspection			Complete	Oct- 19
	Replace mainline crossarm from inspection #1			Complete	Dec- 19
	Replace mainline crossarm from inspection #2			Complete	Dec- 19
	Replace mainline crossarm from inspection #3			Complete	Oct-19
	Replace mainline crossarm from inspection #4			Complete	Nov- 19
	Replace mainline crossarm from inspection #5			Complete	Dec- 19
	Install TripSaver Recloser #1			To be completed 2020	50%
	Install TripSaver Recloser #2			To be completed 2020	50%
	Overhead circuit inspection			To be completed 2020	0%
	On cycle tree trimming			To Be Completed 2020	88%
Rank	Substation	Circuit	District	Customers	Outages
35	Bern Church	00791-1	Reading	646	34
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.0	Trees Off ROW-Tree	38%	2Q 2020
	SAIDI	846	Equipment Failure	21%	
	SAIFI	5.01	Line Failure	20%	
	CAIDI	169	All Other	21%	
	Customer Minutes	546,661			
	Customers Affected	3,236			
	Remedial Action Planned or Taken			Status	Progress
	Install additional circuit tap protection			Complete	Jul-19
	Replace UG cable along White Oak and Possum Lanes URD			Complete	Oct-19
	Circuit Reconfiguration			Complete	May-20
	Targeted forestry inspection			Complete	Jun-20

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
36	Shawnee	00860-3	Stroudsburg	2,662	60
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.9	Trees Off ROW-Tree	42%	2Q 2020
	SAIDI	201	Vehicle	29%	
	SAIFI	2.71	Human Error -Non-Company	8%	
	CAIDI	74	All Other	21%	
	Customer Minutes	534,914			
	Customers Affected	7,215			
	Remedial Action Planned or Taken			Status	Progress
	Thermovision and overhead inspection			Complete	May-20
	Install TripSaver Recloser			To be completed 2020	50%
Rank	Substation	Circuit	District	Customers	Outages
37	Dillsburg	00746-4	Dillsburg	2,559	46
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.9	Trees Off ROW-Tree	70%	2Q 2020
	SAIDI	202	Wind	13%	
	SAIFI	1.90	Vehicle	5%	
	CAIDI	106	All Other	12%	
	Customer Minutes	516,401			
	Customers Affected	4,865			
	Remedial Action Planned or Taken			Status	Progress
	Install Supervisory Control and Data Acquisition (SCADA) recloser #1			To be completed 2020	25%
	Install Supervisory Control and Data Acquisition (SCADA) recloser #2			To be completed 2020	25%
Rank	Substation	Circuit	District	Customers	Outages
38	Annville	00740-2	Lebanon	958	24
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.9	Equipment Failure	47%	2Q 2020
	SAIDI	520	Trees On Row	24%	
	SAIFI	1.53	Wind	22%	
	CAIDI	339	All Other	7%	
	Customer Minutes	498,194			
	Customers Affected	1,468			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			Complete	Dec-19
	Repair/replace high priority items found during thermovision and overhead inspection			Complete	Apr-20
	Post 4/9/2020 storm circuit patrol			Complete	Apr-20
	Post 6/3/2020 storm circuit patrol			Complete	Jun-20
	Targeted forestry inspection and trimming			To be completed 2020	Jan-00

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
39	Fox Hill	00852-3	Stroudsburg	794	31
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.8	Equipment Failure	42%	2Q 2020
	SAIDI	602	Trees Off ROW-Tree	34%	
	SAIFI	2.14	Trees Off ROW-Limb	18%	
	CAIDI	281	All Other	6%	
	Customer Minutes	478,063			
	Customers Affected	1,703			
	Remedial Action Planned or Taken			Status	Progress
	Thermovision and overhead inspection			Complete	Apr-20

Met-Ed					
Unranked circuits appearing 2 or more quarters in the last 4 quarters					
Substation	Circuit	3Q 2019	4Q 2019	1Q 2020	2Q 2020
Barto	00705-1	X	X	X	
Birdsboro	00756-1	X	X		
Birdsboro	00757-1	X	X		
Campbelltown	00731-2	X	X	X	
Carsonia	00764-1	X	X	X	
East Prospect	00765-4	X	X	X	
Fairview	00519-4	X	X	X	
Ferndale	00871-3	X	X	X	
Hokes	00587-4	X	X	X	
Lickdale	00626-2	X	X	X	
Lynnville	00735-1	X	X	X	
Mountain	00740-4	X	X		
Newberry	00576-4		X	X	
Painted Sky	00650-1		X	X	
Palmer	00657-3	X	X	X	
Queen St	00522-4	X	X		
Raintree	00642-4	X	X	X	
South 6th St	00415-2	X	X	X	
Saylorsburg	00114-3	X	X	X	

Met-Ed				
Unranked circuits with remedial actions scheduled to be or recently completed				
Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Progress of Remedial Work or Date Completed
Barto	00705-1	On cycle tree trimming	Complete	May-20
Barto	00705-1	Install TripSaver Recloser	To be completed 2020	50%
Barto	00705-1	Overhead circuit inspection	To be completed 2020	0%
Belfast	00812-3	Install Supervisory Control and Data Acquisition (SCADA) recloser	To be completed 2020	90%
Belfast	00812-3	Install Supervisory Control and Data Acquisition (SCADA) recloser	To be completed 2020	90%
Campbelltown	00731-2	On cycle tree trimming	To be completed 2020	62%
Campbelltown	00731-2	Upgrade fusing	To be completed 2020	50%
Carsonia	00764-1	Targeted forestry inspection	Complete	Apr-20
Clearfield	00631-3	Construct circuit tie	To be completed 2020	95%
Clearfield	00632-3	Construct circuit tie	To be completed 2020	95%
East Prospect	00765-4	On cycle tree trimming	Complete	May-20
Fairview	00519-4	Overhead circuit inspection	Complete	Apr-20
Fairview	00519-4	Install Supervisory Control and Data Acquisition (SCADA) recloser #1	To be completed 2020	50%
Fairview	00519-4	Install Supervisory Control and Data Acquisition (SCADA) recloser #2	To be completed 2020	50%
Fairview	00519-4	Install Supervisory Control and Data Acquisition (SCADA) recloser #3	To be completed 2020	50%
Fairview	00519-4	Install Supervisory Control and Data Acquisition (SCADA) recloser #4	To be completed 2020	50%
Fairview	00519-4	Add Supervisory Control and Data Acquisition (SCADA) to recloser #1	To be completed 2020	50%
Fairview	00519-4	Add Supervisory Control and Data Acquisition (SCADA) to recloser #2	To be completed 2020	50%
Ferndale	00871-3	On cycle tree trimming	Complete	May-20
Ferndale	00871-3	Thermovision and overhead inspection	Complete	Apr-20
Ferndale	00871-3	Install TripSaver Recloser	To be completed 2020	0%
Hokes	00587-4	Repair/replace high priority items identified during inspection	To be completed 2020	10%
Lickdale	00626-2	Install fusing	To be completed 2020	50%
Lynnville	00735-1	Install TripSaver Recloser #1	To be completed 2020	50%
Lynnville	00735-1	Install TripSaver Recloser #2	To be completed 2020	50%
Lynnville	00735-1	Install Supervisory Control and Data Acquisition (SCADA) recloser #1	To be completed 2020	50%
Lynnville	00735-1	Install Supervisory Control and Data Acquisition (SCADA) switch #4	To be completed 2020	50%
Newberry	00576-4	Repair/replace high priority items identified during inspection	To be completed 2020	90%
Painted Sky	00650-1	Install additional mainline disconnects	To be completed 2020	50%
Palmer	00657-3	Overhead circuit inspection	To be completed 2020	0%
Raintree	00642-4	Install TripSaver Recloser	To be completed 2020	0%
S 6Th St	00415-2	Install fusing on mainline taps	To be completed 2020	50%
Shawnee	00822-3	Install Supervisory Control and Data Acquisition (SCADA) switch	To be completed 2020	90%
Springwood	00680-4	Install Supervisory Control and Data Acquisition (SCADA) switch #1	To be completed 2020	25%
Springwood	00680-4	Install Supervisory Control and Data Acquisition (SCADA) switch #2	To be completed 2020	25%
Springwood	00680-4	On cycle tree trimming	To be completed 2020	0%
Stouchburg	00758-2	Line project to reconductor 4 spans and improve coordination	To be completed 2020	50%

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
1	Dubois	Dubois	00137-23	3,200	122
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	492.2	Trees Off ROW-Tree	54%	3Q 2019
	SAIDI	2	Equipment Failure	17%	4Q 2019
	SAIFI	2.45	Line Failure	10%	1Q 2020
	CAIDI	201	All Other	19%	2Q 2020
	Customer Minutes	1,575,018			
	Customers Affected	7,824			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Aug-19
	Repair damage caused by line failure			Complete	Jan-20
	On cycle tree trimming			Complete	Nov-19
	Circuit inspection			Complete	Mar-20
	Install advanced Dx protective devices			Complete	Jun-20
Rank	Substation	Circuit	District	Customers	Outages
2	Lewistown	Logan	00700-81	991	48
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1524.2	Trees Off ROW-Tree	88%	3Q 2019
	SAIDI	7	Lightning	5%	4Q 2019
	SAIFI	6.82	Vehicle	3%	1Q 2020
	CAIDI	224	All Other	4%	2Q 2020
	Customer Minutes	1,510,515			
	Customers Affected	6,755			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Aug-19
	Repair damage caused by trees			Complete	Dec-19
	Circuit inspection			Complete	Apr-20
Rank	Substation	Circuit	District	Customers	Outages
3	Somerset	Meyersdale North	00022-12	1,551	51
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	958.8	Trees Off ROW-Tree	91%	1Q 2020
	SAIDI	3	Vehicle	6%	2Q 2020
	SAIFI	2.87	Lightning	1%	
	CAIDI	334	All Other	2%	
	Customer Minutes	1,487,174			
	Customers Affected	4,451			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a vehicle			Complete	Oct-19
	Repair damage caused by trees during a storm			Complete	Feb-20
	Repair damage caused by trees during a storm			Complete	Apr-20
	Repair damage caused by trees during a storm			Complete	Jun-20

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
4	Oil City	Piney	00523-51	1,508	54
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	966.9	Trees Off ROW-Tree	47%	3Q 2019
	SAIDI	4	Equipment Failure	31%	4Q 2019
	SAIFI	3.58	Unknown	11%	1Q 2020
	CAIDI	270	All Other	11%	2Q 2020
	Customer Minutes	1,458,044			
	Customers Affected	5,402			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Aug-19
	Circuit inspection			Complete	Sep-19
	Repair damage caused by trees during a storm			Complete	Mar-20
	Install new radio-controlled switch			To be Completed 2020	95%
	On cycle tree trimming			To be Completed 2020	80%
	Install advanced Dx protective devices			To be Completed 2020	0%
Rank	Substation	Circuit	District	Customers	Outages
5	Warren	North Warren	00207-41	1,363	81
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1057.3	Trees Off ROW-Tree	49%	3Q 2019
	SAIDI	7	Equipment Failure	25%	4Q 2019
	SAIFI	6.79	Ice	16%	1Q 2020
	CAIDI	156	All Other	10%	2Q 2020
	Customer Minutes	1,441,098			
	Customers Affected	9,254			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Jul-19
	Repair line failure			Complete	Dec-19
	Repair damage caused by trees during a storm			Complete	Jan-20
	Repair damage caused by ice			Complete	Feb-20
	Circuit inspection			Complete	Apr-20
	Targeted circuit rehabilitation			To be Completed 2020	0%
	Install advanced Dx protective devices			To be Completed 2020	0%
	Install new radio-controlled switch			To be Completed 2020	0%

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
6	Towanda	Grover	00527-63	1,046	70
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1149.3	Human Error -Non-Company	44%	3Q 2019
	SAIDI	3	Trees Off ROW-Limb	15%	4Q 2019
	SAIFI	2.74	Animal	13%	1Q 2020
	CAIDI	419	All Other	28%	2Q 2020
	Customer Minutes	1,202,116			
	Customers Affected	2,869			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by non-company human error			Complete	Sep-19
	Repair damage caused by an squirrel			Complete	Dec-19
	Repair damage caused by trees during a storm			Complete	Apr-20
	Circuit inspection			Complete	May-20
Rank	Substation	Circuit	District	Customers	Outages
7	Montrose	Thompson	00436-65	1,327	85
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	902.3	Trees Off ROW-Tree	35%	3Q 2019
	SAIDI	2	Line Failure	28%	4Q 2019
	SAIFI	2.09	Equipment Failure	24%	1Q 2020
	CAIDI	432	All Other	13%	2Q 2020
	Customer Minutes	1,197,325			
	Customers Affected	2,770			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Jul-19
	Repair line failure			Complete	Dec-19
	On cycle tree trimming			To be Completed 2020	65%
Rank	Substation	Circuit	District	Customers	Outages
8	Towanda	East Sayre	00518-61	905	35
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1301.8	Unknown	64%	4Q 2019
	SAIDI	4	Lightning	16%	1Q 2020
	SAIFI	3.91	Equipment Failure	15%	2Q 2020
	CAIDI	333	All Other	5%	
	Customer Minutes	1,178,135			
	Customers Affected	3,541			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by lightning			Complete	Aug-19
	Restore breaker operation of unknown cause			Complete	Nov-19
	Circuit inspection			Complete	Apr-20

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
9	Montrose	N Meshoppen Tran	00534-65	821	56
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1430.5	Trees Off ROW-Tree	67%	4Q 2019
	SAIDI	3	Line Failure	20%	1Q 2020
	SAIFI	3.32	Equipment Failure	7%	2Q 2020
	CAIDI	431	All Other	6%	
	Customer Minutes	1,174,428			
	Customers Affected	2,725			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Dec-19
	Repair line failure			Complete	Dec-19
Rank	Substation	Circuit	District	Customers	Outages
10	Montrose	Lake Como	00787-65	893	31
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1244.5	Line Failure	48%	3Q 2019
	SAIDI	4	Trees Off ROW-Tree	20%	4Q 2019
	SAIFI	3.92	Equipment Failure	18%	1Q 2020
	CAIDI	318	All Other	14%	2Q 2020
	Customer Minutes	1,111,373			
	Customers Affected	3,498			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Jul-19
	Repair line failure			Complete	Dec-19
	Circuit inspection			Complete	Mar-20
	Repair equipment failure			Complete	Apr-20
	Install advanced Dx protective devices			To be Completed 2020	0%
Rank	Substation	Circuit	District	Customers	Outages
11	Somerset	Somerset	00017-12	1,367	41
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	691.0	Trees Off ROW-Tree	96%	2Q 2020
	SAIDI	2	Unknown	2%	
	SAIFI	1.90	Line Failure	1%	
	CAIDI	364	All Other	1%	
	Customer Minutes	944,605			
	Customers Affected	2,597			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Oct-19
	Repair damage caused by trees during a storm			Complete	Apr-20

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
12	Oil City	Utica Junction	00331-51	641	43
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1408.5	Trees Off ROW-Tree	70%	3Q 2019
	SAIDI	4	Equipment Failure	14%	4Q 2019
	SAIFI	4.26	Line Failure	8%	1Q 2020
	CAIDI	330	All Other	8%	2Q 2020
	Customer Minutes	902,858			
	Customers Affected	2,732			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Aug-19
	Repair equipment failure			Complete	Aug-19
	Install advanced Dx protective devices			To be Completed 2020	0%
	On cycle tree trimming			To be Completed 2020	0%
Rank	Substation	Circuit	District	Customers	Outages
13	Altoona	Fairview Altoona	00005-71	1,413	9
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	638.8	Vehicle	55%	4Q 2019
	SAIDI	2	Equipment Failure	42%	1Q 2020
	SAIFI	1.65	Line Failure	2%	2Q 2020
	CAIDI	388	All Other	1%	
	Customer Minutes	902,610			
	Customers Affected	2,328			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Nov-19
	Repair damage caused by a vehicle			Complete	Dec-19
Rank	Substation	Circuit	District	Customers	Outages
14	Warren	Warren South	00220-41	2,841	92
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	305.8	Trees Off ROW-Tree	52%	3Q 2019
	SAIDI	2	Equipment Failure	27%	4Q 2019
	SAIFI	1.83	Human Error -Non-Company	6%	1Q 2020
	CAIDI	168	All Other	15%	2Q 2020
	Customer Minutes	868,730			
	Customers Affected	5,186			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			Complete	Nov-19
	Repair equipment failure			Complete	Jan-20
	Repair damage caused by trees			Complete	Mar-20
	Install advanced Dx protective devices			To be Completed 2020	0%
	Circuit inspection			To be Completed 2020	0%

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
15	Mansfield Pa	Wellsboro	00324-63	251	31
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3358.6	Trees Off ROW-Tree	73%	4Q 2019
	SAIDI	3	Unknown	10%	1Q 2020
	SAIFI	3.43	Animal	8%	2Q 2020
	CAIDI	978	All Other	9%	
	Customer Minutes	843,012			
	Customers Affected	862			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Dec-19
	Restored fuse operation of unknown cause			Complete	Apr-20
Rank	Substation	Circuit	District	Customers	Outages
16	Oil City	Marienville	00328-51	1,097	51
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	761.9	Trees Off ROW-Tree	77%	3Q 2019
	SAIDI	2	Line Failure	15%	4Q 2019
	SAIFI	2.33	Equipment Failure	3%	1Q 2020
	CAIDI	327	All Other	5%	2Q 2020
	Customer Minutes	835,777			
	Customers Affected	2,552			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Jul-19
	Repair damage caused by trees during a storm			Complete	Jan-20
	Install advanced Dx protective devices			Complete	May-20
	Circuit inspection			To be Completed 2020	0%
Rank	Substation	Circuit	District	Customers	Outages
17	Somerset	Hooversville	00019-12	1,604	47
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	507.8	Trees Off ROW-Tree	49%	2Q 2020
	SAIDI	4	Equipment Failure	32%	
	SAIFI	3.87	Unknown	7%	
	CAIDI	131	All Other	12%	
	Customer Minutes	814,582			
	Customers Affected	6,207			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Apr-20
	Repair damage caused by trees during a storm			Complete	Apr-20

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
18	Mansfield Pa	Mansfield	00559-63	560	33
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1414.2	Other Electric Utility	31%	4Q 2019
	SAIDI	4	Equipment Failure	23%	1Q 2020
	SAIFI	4.20	Unknown	18%	2Q 2020
	CAIDI	337	All Other	28%	
	Customer Minutes	791,975			
	Customers Affected	2,352			
	Remedial Action Planned or Taken			Status	Progress
	Repair line failure			Complete	Jul-19
	Repair damage caused by non-company human error			Complete	Dec-19
	Repair equipment failure			Complete	Apr-20
	Targeted circuit rehabilitation			To be Completed 2020	0%
Rank	Substation	Circuit	District	Customers	Outages
19	Montrose	Tiffany	00435-65	1,273	40
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	576.8	Trees Off ROW-Tree	60%	2Q 2020
	SAIDI	2	Animal	21%	
	SAIFI	1.95	Lightning	7%	
	CAIDI	295	All Other	12%	
	Customer Minutes	734,252			
	Customers Affected	2,487			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by an animal			Complete	Oct-19
	Repair damage caused by trees during a storm			Complete	Apr-20
Rank	Substation	Circuit	District	Customers	Outages
20	Mansfield Pa	Covington	00729-63	777	33
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	944.7	Equipment Failure	59%	4Q 2019
	SAIDI	2	Forced Outage	15%	2Q 2020
	SAIFI	1.71	Unknown	11%	
	CAIDI	553	All Other	15%	
	Customer Minutes	734,033			
	Customers Affected	1,327			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Oct-19
	Restored fuse operation of unknown cause			Complete	Dec-19

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
21	Lewistown	Logan	00701-81	1,304	28
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	552.9	Trees Off ROW-Tree	49%	3Q 2019
	SAIDI	2	Line Failure	35%	4Q 2019
	SAIFI	1.56	Lightning	14%	1Q 2020
	CAIDI	354	All Other	2%	2Q 2020
	Customer Minutes	720,968			
	Customers Affected	2,038			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Aug-19
	Repair line failure			Complete	Oct-19
	Targeted circuit rehabilitation			Complete	Jun-20
Rank	Substation	Circuit	District	Customers	Outages
22	Bradford	Two Mile	00127-42	1,282	46
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	561.1	Equipment Failure	48%	4Q 2019
	SAIDI	3	Forced Outage	20%	1Q 2020
	SAIFI	2.75	Line Failure	16%	2Q 2020
	CAIDI	204	All Other	16%	
	Customer Minutes	719,319			
	Customers Affected	3,531			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Aug-19
	Repair equipment failure			Complete	Dec-19
	Repair damage caused by vehicle accident			Complete	Dec-19
	Repair equipment failure			Complete	Feb-20
	Repair line failure			Complete	Apr-20
	Install advanced Dx protective devices			To be Completed 2020	0%
	Circuit inspection			To be Completed 2020	0%

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
23	Meadville	Springboro	00237-52	2,532	70
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	279.0	Trees Off ROW-Tree	65%	3Q 2019
	SAIDI	3	Bird	15%	4Q 2019
	SAIFI	2.74	Object Contact With Line	9%	1Q 2020
	CAIDI	102	All Other	11%	2Q 2020
	Customer Minutes	706,410			
	Customers Affected	6,934			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Sep-19
	Repair damage caused by bird			Complete	Oct-19
	Targeted circuit rehabilitation			Complete	Dec-19
	Repair damage caused by trees during a storm			Complete	Mar-20
	Install advanced Dx protective devices			To be Completed 2020	0%
Rank	Substation	Circuit	District	Customers	Outages
24	Montrose	Tiffany	00440-65	1,197	37
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	589.4	Bird	49%	3Q 2019
	SAIDI	5	Equipment Failure	18%	4Q 2019
	SAIFI	4.75	Unknown	17%	1Q 2020
	CAIDI	124	All Other	16%	2Q 2020
	Customer Minutes	705,552			
	Customers Affected	5,689			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a bird			Complete	Aug-19
	Repair damage caused by trees during a storm			Complete	Aug-19
	Repair equipment failure			Complete	Dec-19
	Restored breaker operation of unknown cause			Complete	Apr-20
	Targeted circuit rehabilitation			To be Completed 2020	0%

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
25	Philipsburg	Philipsburg	00162-22	2,827	61
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	245.9	Equipment Failure	58%	3Q 2019
	SAIDI	2	Lightning	14%	4Q 2019
	SAIFI	2.29	Line Failure	12%	1Q 2020
	CAIDI	107	All Other	16%	2Q 2020
	Customer Minutes	695,100			
	Customers Affected	6,479			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Aug-19
	Repair line failure			Complete	Aug-19
	Repair damage caused by lightning			Complete	Aug-19
	Repair equipment failure			Complete	Apr-20
	Circuit inspection			Complete	May-20
	Install advanced Dx protective devices			To be Completed 2020	0%
Rank	Substation	Circuit	District	Customers	Outages
26	Lewistown	Mcveytown	00112-81	1,291	54
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	522.4	Trees Off ROW-Tree	61%	3Q 2019
	SAIDI	2	Line Failure	24%	2Q 2020
	SAIFI	2.07	Trees Off ROW-Limb	6%	
	CAIDI	253	All Other	9%	
	Customer Minutes	674,467			
	Customers Affected	2,668			
	Remedial Action Planned or Taken			Status	Progress
	Repair line failure			Complete	Apr-20
	Repair damage caused by a tree during a storm			Complete	Jun-20
Rank	Substation	Circuit	District	Customers	Outages
27	Somerset	Hooversville	00018-12	750	35
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	885.5	Trees Off ROW-Tree	82%	2Q 2020
	SAIDI	2	Trees Off ROW-Limb	8%	
	SAIFI	2.35	Vehicle	7%	
	CAIDI	377	All Other	3%	
	Customer Minutes	664,160			
	Customers Affected	1,763			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Apr-20
	Repair damage caused by trees during a storm			Complete	Apr-20
	Repair damage caused by trees during a storm			Complete	Apr-20

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
28	Montrose	Laurel Lake Sub Tran	00449-65	551	42
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1199.3	Line Failure	42%	3Q 2019
	SAIDI	6	Trees Off ROW-Tree	35%	1Q 2020
	SAIFI	6.01	Equipment Failure	17%	2Q 2020
	CAIDI	200	All Other	6%	
	Customer Minutes	660,815			
	Customers Affected	3,310			
	Remedial Action Planned or Taken			Status	Progress
	Repair line failure			Complete	Aug-19
	Repair damage caused by trees during a storm			Complete	Aug-19
	Repair equipment failure			Complete	Feb-20
	Repair line failure			Complete	Apr-20
Rank	Substation	Circuit	District	Customers	Outages
29	Mansfield Pa	Ansonia	00740-63	171	23
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3841.2	Unknown	69%	4Q 2019
	SAIDI	4	Trees Off ROW-Tree	18%	1Q 2020
	SAIFI	3.94	Line Failure	11%	2Q 2020
	CAIDI	976	All Other	2%	
	Customer Minutes	656,845			
	Customers Affected	673			
	Remedial Action Planned or Taken			Status	Progress
	Restored breaker operation of unknown cause			Complete	Dec-19
	Repair damage caused by trees during a storm			Complete	Apr-20
Rank	Substation	Circuit	District	Customers	Outages
30	Altoona	Samuel Rea Car Shop	00031-71	1,692	19
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	387.9	Lightning	88%	2Q 2020
	SAIDI	2	Forced Outage	4%	
	SAIFI	1.60	Line Failure	4%	
	CAIDI	243	All Other	4%	
	Customer Minutes	656,273			
	Customers Affected	2,704			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by lightning			Complete	Aug-19

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
31	Lewistown	Reedsville	00127-81	925	20
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	705.1	Trees Off ROW-Tree	94%	3Q 2019
	SAIDI	2	Vehicle	5%	4Q 2019
	SAIFI	1.57	Lightning	1%	1Q 2020
	CAIDI	449	All Other	0%	2Q 2020
	Customer Minutes	652,232			
	Customers Affected	1,454			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Aug-19
	Repair damage caused by trees during a storm			Complete	Aug-19
Rank	Substation	Circuit	District	Customers	Outages
32	Montrose	Industrial Park	00796-65	357	14
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1822.6	Trees Off ROW-Tree	45%	2Q 2020
	SAIDI	5	Line Failure	27%	
	SAIFI	5.13	Ice	26%	
	CAIDI	356	All Other	2%	
	Customer Minutes	650,670			
	Customers Affected	1,830			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Aug-19
	Repair line failure			Complete	Dec-19
	Repair damage caused by ice			Complete	Apr-20
Rank	Substation	Circuit	District	Customers	Outages
33	Philipsburg	Madera	00166-22	1,429	35
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	438.6	Vehicle	62%	3Q 2019
	SAIDI	2	Equipment Failure	25%	4Q 2019
	SAIFI	2.17	Trees Off ROW-Tree	13%	1Q 2020
	CAIDI	202	All Other	0%	2Q 2020
	Customer Minutes	626,787			
	Customers Affected	3,103			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a vehicle			Complete	Jul-19
	Repair damage caused by trees during a storm			Complete	Oct-19
	Install advanced Dx protective devices			To be Completed 2020	0%
	Circuit inspection			To be Completed 2020	0%

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
34	Lewistown	Industrial	00170-81	765	21
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	761.3	Trees Off ROW-Tree	34%	3Q 2019
	SAIDI	4	Lightning	33%	4Q 2019
	SAIFI	4.41	Trees Off ROW-Limb	13%	1Q 2020
	CAIDI	173	All Other	20%	2Q 2020
	Customer Minutes	582,416			
	Customers Affected	3,373			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Jul-19
	Repair damage caused by lightning			Complete	Aug-19
Rank	Substation	Circuit	District	Customers	Outages
35	Altoona	Curryville	00644-71	1,785	73
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	322.7	Equipment Failure	46%	3Q 2019
	SAIDI	2	Line Failure	43%	4Q 2019
	SAIFI	2.13	Forced Outage	8%	1Q 2020
	CAIDI	151	All Other	3%	2Q 2020
	Customer Minutes	575,992			
	Customers Affected	3,803			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Sep-19
	Repair line failure			Complete	Apr-20
	Circuit inspection			Complete	Apr-20
	On cycle tree trimming			To be Completed 2020	0%
Rank	Substation	Circuit	District	Customers	Outages
36	Indiana	East Pike	00095-13	4,568	33
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	123.7	Human Error - Company	40%	4Q 2019
	SAIDI	2	Equipment Failure	41%	1Q 2020
	SAIFI	1.80	Line Failure	10%	2Q 2020
	CAIDI	69	All Other	9%	
	Customer Minutes	565,110			
	Customers Affected	8,226			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Oct-19
	On cycle tree trimming			Complete	Dec-19
	Circuit inspection			Complete	Apr-20

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
37	Montrose	Lake Como	00788-65	633	29
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	890.9	Trees Off ROW-Tree	91%	2Q 2020
	SAIDI	3	Equipment Failure	7%	
	SAIFI	2.59	Line Failure	2%	
	CAIDI	344	All Other	0%	
	Customer Minutes	563,946			
	Customers Affected	1,640			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Dec-19
	Repair damage caused by trees during a storm			Complete	Apr-20
Rank	Substation	Circuit	District	Customers	Outages
38	Montrose	Russell Hill	00282-65	999	61
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	540.8	Trees Off ROW-Tree	77%	3Q 2019
	SAIDI	2	Line Failure	9%	4Q 2019
	SAIFI	1.82	Unknown	8%	1Q 2020
	CAIDI	297	All Other	6%	2Q 2020
	Customer Minutes	540,283			
	Customers Affected	1,821			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Dec-19
Rank	Substation	Circuit	District	Customers	Outages
39	Erie	Union City Sub	00206-43	2,882	111
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	182.8	Trees Off ROW-Tree	49%	3Q 2019
	SAIDI	2	Equipment Failure	16%	4Q 2019
	SAIFI	1.98	Human Error -Non-Company	10%	1Q 2020
	CAIDI	93	All Other	25%	2Q 2020
	Customer Minutes	526,775			
	Customers Affected	5,693			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by non-company human error			Complete	Aug-19
	On cycle tree trimming			Complete	Oct-19
	Repair damage caused by trees during a storm			Complete	Jan-20
	Install new radio-controlled switch			To be Completed 2020	95%
	Targeted circuit rehabilitation			To be Completed 2020	0%

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
40	Warren	North Warren	00596-41	1,125	56
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	467.8	Trees Off ROW-Tree	47%	3Q 2019
	SAIDI	3	Equipment Failure	33%	2Q 2020
	SAIFI	3.46	Line Failure	7%	
	CAIDI	135	All Other	13%	
	Customer Minutes	526,296			
	Customers Affected	3,897			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Jan-20
	Repair equipment failure			Complete	May-20
Rank	Substation	Circuit	District	Customers	Outages
41	Montrose	Thompson	00446-65	842	47
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	623.3	Trees Off ROW-Tree	34%	3Q 2019
	SAIDI	2	Equipment Failure	25%	4Q 2019
	SAIFI	2.01	Ice	11%	1Q 2020
	CAIDI	311	All Other	30%	2Q 2020
	Customer Minutes	524,784			
	Customers Affected	1,690			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			Complete	Oct-19
	Repair damage caused by trees			Complete	Dec-19
	Repair damage caused by ice			Complete	Apr-20
Rank	Substation	Circuit	District	Customers	Outages
42	Dubois	Dubois Central	00119-23	1,309	53
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	393.0	Trees Off ROW-Tree	65%	2Q 2020
	SAIDI	2	Equipment Failure	18%	
	SAIFI	1.79	Line Failure	6%	
	CAIDI	220	All Other	11%	
	Customer Minutes	514,383			
	Customers Affected	2,339			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Jun-20
	Repair damage caused by trees during a storm			Complete	Jun-20
	Repair damage caused by trees during a storm			Complete	Jun-20

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
43	Dubois	Brookville	00125-23	616	29
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	823.1	Trees Off ROW-Tree	38%	3Q 2019
	SAIDI	7	Line Failure	20%	4Q 2019
	SAIFI	6.88	Unknown	15%	1Q 2020
	CAIDI	120	All Other	27%	2Q 2020
	Customer Minutes	507,021			
	Customers Affected	4,239			
	Remedial Action Planned or Taken			Status	Progress
	Repair line failure			Complete	Dec-19
	On cycle tree trimming			Complete	Nov-19
	Repair damage caused by vehicle accident			Complete	Jan-20
Rank	Substation	Circuit	District	Customers	Outages
44	Erie	Green Garden	00539-31	1,064	11
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	471.8	Line Failure	92%	3Q 2019
	SAIDI	2	Unknown	6%	4Q 2019
	SAIFI	2.09	Animal	2%	1Q 2020
	CAIDI	226	All Other	0%	2Q 2020
	Customer Minutes	502,020			
	Customers Affected	2,223			
	Remedial Action Planned or Taken			Status	Progress
	Repair line failure			Complete	Jul-19
Rank	Substation	Circuit	District	Customers	Outages
45	Erie	French Road	00222-31	1,446	21
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	343.2	Line Failure	42%	2Q 2020
	SAIDI	3	Trees Off ROW-Limb	27%	
	SAIFI	2.73	Equipment Failure	18%	
	CAIDI	126	All Other	13%	
	Customer Minutes	496,206			
	Customers Affected	3,948			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Jan-20
	Repair line failure			Complete	Jan-20
	Repair damage caused by trees during a storm			Complete	Jun-20

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
46	Indiana	Edgewood	00089-13	866	18
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	560.4	Trees Off ROW-Tree	54%	3Q 2019
	SAIDI	3	Line Failure	24%	4Q 2019
	SAIFI	3.30	Vehicle	18%	1Q 2020
	CAIDI	170	All Other	4%	2Q 2020
	Customer Minutes	485,306			
	Customers Affected	2,858			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a vehicle			Complete	Jul-19
	Restored breaker operation of unknown cause			Complete	Dec-19
	Restored breaker operation of unknown cause			Complete	Apr-20
	Install advanced Dx protective devices			Complete	Jun-20
Rank	Substation	Circuit	District	Customers	Outages
47	Clearfield	Shawville	00151-21	2,066	41
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	231.4	Unknown	48%	4Q 2019
	SAIDI	4	Forced Outage	21%	1Q 2020
	SAIFI	4.18	Line Failure	15%	2Q 2020
	CAIDI	55	All Other	15%	
	Customer Minutes	477,997			
	Customers Affected	8,636			
	Remedial Action Planned or Taken			Status	Progress
	Repair line failure			Complete	Jul-19
	Repair damage caused by trees during a storm			Complete	Jul-19
	Circuit inspection			Complete	Apr-20
	Install advanced Dx protective devices			Complete	Jun-20
	Targeted circuit rehabilitation			To be Completed 2020	0%
Rank	Substation	Circuit	District	Customers	Outages
48	Somerset	Meyersdale North	00004-12	582	21
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	817.0	Trees Off ROW-Tree	83%	2Q 2020
	SAIDI	3	Line Failure	11%	
	SAIFI	2.83	Unknown	3%	
	CAIDI	289	All Other	3%	
	Customer Minutes	475,491			
	Customers Affected	1,648			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Apr-20

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
49	Towanda	Waverly	00164-66	960	26
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	491.9	Trees Off ROW-Tree	54%	1Q 2020
	SAIDI	3	Equipment Failure	38%	2Q 2020
	SAIFI	2.54	Unknown	4%	
	CAIDI	194	All Other	4%	
	Customer Minutes	472,181			
	Customers Affected	2,436			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Aug-19
	Repair equipment failure			Complete	Mar-20
	Repair damage caused by trees during a storm			Complete	Apr-20
Rank	Substation	Circuit	District	Customers	Outages
50	Montrose	Tunkhannock	00533-65	1,200	41
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	390.8	Trees Off ROW-Tree	67%	2Q 2020
	SAIDI	2	Lightning	10%	
	SAIFI	1.76	Unknown	9%	
	CAIDI	222	All Other	14%	
	Customer Minutes	468,976			
	Customers Affected	2,108			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by lightning			Complete	Aug-19
	Repair line failure			Complete	Aug-19
	Repair damage caused by trees during a storm			Complete	Apr-20
Rank	Substation	Circuit	District	Customers	Outages
51	Indiana	East Pike	00094-13	322	5
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1452.3	Line Failure	96%	3Q 2019
	SAIDI	8	Forced Outage	3%	4Q 2019
	SAIFI	7.67	Unknown	1%	1Q 2020
	CAIDI	189	All Other	0%	2Q 2020
	Customer Minutes	467,627			
	Customers Affected	2,471			
	Remedial Action Planned or Taken			Status	Progress
	Repair line failure			Complete	Sep-19

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
52	Montrose	Lake Como	00786-65	392	18
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1176.2	Line Failure	52%	3Q 2019
	SAIDI	2	Trees Off ROW-Tree	41%	4Q 2019
	SAIFI	2.39	Ice	3%	1Q 2020
	CAIDI	492	All Other	4%	2Q 2020
	Customer Minutes	461,074			
	Customers Affected	938			
	Remedial Action Planned or Taken			Status	Progress
	Circuit inspection			Complete	Mar-20
Rank	Substation	Circuit	District	Customers	Outages
53	Bradford	Port Allegany Sub	00151-42	480	34
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	950.4	Trees Off ROW-Tree	69%	3Q 2019
	SAIDI	2	Lightning	15%	4Q 2019
	SAIFI	1.78	Equipment Failure	14%	1Q 2020
	CAIDI	533	All Other	2%	2Q 2020
	Customer Minutes	456,188			
	Customers Affected	856			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Aug-19
	Repair damage caused by trees			Complete	Aug-19
	Install advanced Dx protective devices			To be Completed 2020	0%
	On cycle tree trimming			To be Completed 2020	94%
Rank	Substation	Circuit	District	Customers	Outages
54	Mansfield Pa	Sabinsville Trans	00567-63	145	20
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3094.6	Equipment Failure	81%	2Q 2020
	SAIDI	6	Forced Outage	17%	
	SAIFI	5.53	Unknown	2%	
	CAIDI	559	All Other	0%	
	Customer Minutes	448,711			
	Customers Affected	802			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Dec-19

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
55	Oil City	Utica Junction	00318-51	825	60
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	540.3	Trees Off ROW-Tree	42%	3Q 2019
	SAIDI	2	Trees Off ROW-Limb	32%	4Q 2019
	SAIFI	1.78	Animal	11%	1Q 2020
	CAIDI	304	All Other	15%	2Q 2020
	Customer Minutes	445,777			
	Customers Affected	1,468			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Jul-19
	Repair damage caused by animal contact			Complete	Oct-19
	Install advanced Dx protective devices			Complete	May-20
	Circuit inspection			To be Completed 2020	0%
	On cycle tree trimming			To be Completed 2020	72%
Rank	Substation	Circuit	District	Customers	Outages
56	Philipsburg	Birmingham	00168-22	1,080	43
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	408.5	Forced Outage	60%	3Q 2019
	SAIDI	2	Trees Off ROW-Tree	15%	4Q 2019
	SAIFI	1.59	Equipment Failure	10%	1Q 2020
	CAIDI	257	All Other	15%	2Q 2020
	Customer Minutes	441,180			
	Customers Affected	1,714			
	Remedial Action Planned or Taken			Status	Progress
	Install advanced Dx protective devices			To be Completed 2020	0%
Rank	Substation	Circuit	District	Customers	Outages
57	Philipsburg	Tyrone North Sub	00643-22	1,478	5
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	296.7	Line Failure	66%	3Q 2019
	SAIDI	2	Trees Off ROW-Tree	32%	4Q 2019
	SAIFI	1.75	Lightning	1%	1Q 2020
	CAIDI	170	All Other	1%	2Q 2020
	Customer Minutes	438,454			
	Customers Affected	2,586			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Aug-19
	Circuit inspection			Complete	Sep-19
	Repair line faulure			Complete	Nov-19

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
58	Dubois	Dubois	00131-23	580	23
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	755.3	Trees Off ROW-Tree	70%	3Q 2019
	SAIDI	2	Forced Outage	19%	1Q 2020
	SAIFI	2.21	Overload	5%	2Q 2020
	CAIDI	341	All Other	6%	
	Customer Minutes	438,075			
	Customers Affected	1,284			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Aug-19
	Repair damage caused by trees during a storm			Complete	Jan-20
Rank	Substation	Circuit	District	Customers	Outages
59	Erie	Erie East	00234-31	1,018	46
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	421.3	Object Contact With Line	64%	3Q 2019
	SAIDI	2	Trees Off ROW-Tree	9%	1Q 2020
	SAIFI	2.45	Vehicle	7%	2Q 2020
	CAIDI	172	All Other	20%	
	Customer Minutes	428,843			
	Customers Affected	2,499			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage cause by object in contact with line			Complete	Sep-19
Rank	Substation	Circuit	District	Customers	Outages
60	Towanda	East Towanda	00525-62	446	27
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	934.0	Trees Off ROW-Tree	65%	2Q 2020
	SAIDI	8	Unknown	11%	
	SAIFI	7.97	Human Error -Non-Company	9%	
	CAIDI	117	All Other	15%	
	Customer Minutes	416,557			
	Customers Affected	3,554			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Aug-19
	Repair damage caused by trees during a storm			Complete	Oct-19
	Repair damage caused by non-company human error			Complete	Mar-20

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
61	Johnstown	Salix	00070-11	2,307	41
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	178.8	Trees Off ROW-Tree	40%	3Q 2019
	SAIDI	2	Lightning	32%	4Q 2019
	SAIFI	2.23	Line Failure	12%	2Q 2020
	CAIDI	80	All Other	16%	
	Customer Minutes	412,442			
	Customers Affected	5,143			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by lightning			Complete	Jul-19
	Repair damage caused by trees			Complete	Apr-20
Rank	Substation	Circuit	District	Customers	Outages
62	Warren	Warren South	00219-41	319	25
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1206.7	Trees Off ROW-Tree	64%	4Q 2019
	SAIDI	4	Equipment Failure	24%	1Q 2020
	SAIFI	4.21	Unknown	4%	2Q 2020
	CAIDI	286	All Other	8%	
	Customer Minutes	384,922			
	Customers Affected	1,344			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Dec-19
	Install advanced Dx protective devices			To be Completed 2020	0%

Penelec					
Unranked circuits appearing 2 or more quarters in the last 4 quarters					
Substation	Circuit	3Q 2019	4Q 2019	1Q 2020	2Q 2020
Blairsville East	00082-13	X	X		
Boyer	00584-31	X	X		
Cambria County Priso	00202-72	X	X	X	
Carlisle Pike	00643-83	X	X	X	
Dushore	00669-62	X	X	X	
Falls	00297-65		X	X	
Hilltop	00048-11	X	X		
L And R	00120-81	X	X	X	
Madera	00165-22	X	X	X	
McConnellstown	00099-82	X	X		
Milroy	00128-81	X	X	X	
Monroeton	00770-62	X	X	X	
Nanty Glo	00066-72	X		X	
New Albany Sw Stati	00526-62	X	X	X	
Revloc	00069-72	X	X	X	
Rolling Meadows	00310-31	X	X	X	
Shelocta	00102-13	X	X		
Thompson	00442-65		X	X	
Timblin	00103-23	X	X	X	
Viscose Hill	00116-81		X	X	
Wyalusing	00532-62		X	X	

Penelec				
Unranked circuits with remedial actions scheduled to be or recently completed				
Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work Completed	Progress of Remedial Work or Date Completed
Milroy	00128-81	Install advanced Dx protective devices	To be Completed 2020	0%
Milroy	00128-81	Install new radio-controlled switch	To be Completed 2020	0%
Rolling Meadows	00310-31	Install advanced Dx protective devices	To be Completed 2020	0%
Rolling Meadows	00310-31	Circuit inspection	To be Completed 2020	0%
Revloc	00069-72	On cycle tree trimming	To be Completed 2020	88%
Madera	00165-22	On cycle tree trimming	Complete	May-20
Industrial	00170-81	Install advanced Dx protective devices	Complete	May-20
Nanty Glo	00066-72	Circuit inspection	Complete	May-20
New Albany SW Station	00526-62	Circuit inspection	Complete	May-20
New Albany SW Station	00526-62	On cycle tree trimming	To be Completed 2020	9%
Falls	00297-65	On cycle tree trimming	Complete	May-20
Timblin	00103-23	Install advanced Dx protective devices	To be Completed 2020	0%
Blairsville East	00082-13	Install advanced Dx protective devices	Complete	Jun-20
Blairsville East	00082-13	On cycle tree trimming	To be Completed 2020	85%
McConnellstown	00099-82	Circuit inspection	Complete	Apr-20
McConnellstown	00099-82	Install advanced Dx protective devices	To be Completed 2020	0%
Marienville	00327-51	Install new radio-controlled recloser	To be Completed 2020	95%

Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
1	Enon Valley	D-545	New Castle	1023	58
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	4.6	Trees Off ROW-Tree	73%	2Q 2020
	SAIDI	745	Lightning	19%	
	SAIFI	1.41	Equipment Failure	3%	
	CAIDI	528	All Other	5%	
	Customer Minutes	762,399			
	Customers Affected	1,444			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by tree			Complete	Oct-19
	Repair damage caused by trees during a storm			Complete	Jun-20
Rank	Substation	Circuit	District	Customers	Outages
2	Camp Reynolds	W-134	Clark	1736	72
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	4.4	Trees Off ROW-Tree	67%	3Q 2019
	SAIDI	413	Unknown	18%	4Q 2019
	SAIFI	2.37	Equipment Failure	7%	1Q 2020
	CAIDI	175	All Other	8%	2Q 2020
	Customer Minutes	717,271			
	Customers Affected	4,110			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by tree.			Complete	Jul-19
	Repair damage caused by trees during a storm			Complete	Aug-19
	Repair damage caused by trees during a storm			Complete	Aug-19
	Replace pole			Complete	Aug-19
	Restore breaker operation of unknown cause			Complete	Oct-19
	Repair damage caused by trees during a storm			Complete	Jan-20
Rank	Substation	Circuit	District	Customers	Outages
3	BMF	W760	Zelienople	2659	21
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	4.0	Trees Off ROW-Tree	95%	1Q 2020
	SAIDI	246	Line Failure	3%	2Q 2020
	SAIFI	1.54	Animal	2%	
	CAIDI	159	All Other	0%	
	Customer Minutes	654,348			
	Customers Affected	4,108			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Jun-19
	Repair damage caused by trees during a storm			Complete	Mar-20
	Repair damage caused by trees during a storm			Complete	Jun-20

Penn Power					
Rank					
4	Grant Street	W421	New Castle	935	9
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.5	Trees Off ROW-Tree	73%	2Q 2020
	SAIDI	615	Vehicle	16%	
	SAIFI	2.18	Unknown	10%	
	CAIDI	282	All Other	1%	
	Customer Minutes	574,990			
	Customers Affected	2,036			
	Remedial Action Planned or Taken			Status	Progress
	Restore cutout fuses blown by unknown cause			Complete	Jul-19
	Replace pole			Complete	Mar-20
	Repair damage caused by trees during a storm			Complete	Jun-20
Rank	Substation	Circuit	District	Customers	Outages
5	Darlington	D-536	Zelienople	1065	46
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.3	Trees Off ROW-Tree	62%	2Q 2020
	SAIDI	509	Lightning	30%	
	SAIFI	1.25	Line Failure	2%	
	CAIDI	409	All Other	6%	
	Customer Minutes	541,786			
	Customers Affected	1,326			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Jul-19
	Repair damage caused by trees during a storm			Complete	Apr-20
Rank	Substation	Circuit	District	Customers	Outages
6	Seneca	W700	Zelienople	1044	59
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.0	Trees Off ROW-Tree	90%	2Q 2020
	SAIDI	480	Line Failure	4%	
	SAIFI	2.85	Lightning	2%	
	CAIDI	169	All Other	4%	
	Customer Minutes	501,240			
	Customers Affected	2,974			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Mar-20
	Repair damage caused by trees during a storm			Complete	May-20

Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
7	Henderson	W-281	Clark	697	29
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.0	Trees Off ROW-Tree	56%	3Q 2019
	SAIDI	704	Lightning	32%	4Q 2019
	SAIFI	1.56	Animal	6%	1Q 2020
	CAIDI	453	All Other	6%	2Q 2020
	Customer Minutes	490,799			
	Customers Affected	1,084			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Jul-19
	Repair damage caused by lightning			Complete	Jul-19
Rank	Substation	Circuit	District	Customers	Outages
8	Knox	D509	Zelienople	980	21
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.8	Trees Off ROW-Tree	92%	2Q 2020
	SAIDI	471	Equipment Failure	2%	
	SAIFI	1.55	Vehicle	2%	
	CAIDI	304	All Other	4%	
	Customer Minutes	461,554			
	Customers Affected	1,516			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Apr-20
	Repair damage caused by trees during a storm			Complete	Jun-20
Rank	Substation	Circuit	District	Customers	Outages
9	Ingomar	W630	Zelienople	1737	11
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.7	Trees Off ROW-Tree	74%	2Q 2020
	SAIDI	255	Forced Outage	24%	
	SAIFI	1.25	Line Failure	1%	
	CAIDI	204	All Other	1%	
	Customer Minutes	442,520			
	Customers Affected	2,164			
	Remedial Action Planned or Taken			Status	Progress
	Pole was replaced and equipment repaired			Complete	Aug-19
	Repair damage caused by trees during a storm			Complete	Jun-20

Penn Power					
Unranked circuits appearing 2 or more quarters in the last 4 quarters					
Substation	Circuit	3Q 2019	4Q 2019	1Q 2019	2Q 2019
Bedford	D-445	X	X	X	
Evans City	D-611	X	X		
Perry	W-156	X	X		
Stoneboro	W-131	X	X	X	
Stoneboro	W-132	X	X	X	
Thompson Run	D550	X	X	X	
West Middlesex	W-138		X	X	

Penn Power				
Unranked circuits with remedial actions scheduled to be or recently completed				
Substation	Circuit	Remedial Action Planned	Status of Remedial Work	Progress of Remedial Work
Penn Power has no unranked circuits with remedial actions scheduled to be or recently completed.				

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
1	Piney Fork	Gillhall	Charleroi	2,252	22
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.9	Line Failure	97%	Q2 2020
	SAIDI	942	Equipment Failure	2%	
	SAIFI	1.71	Trees Off ROW	1%	
	CAIDI	552	All Other	0%	
	Customer Minutes	2,121,152			
	Customers Affected	3,846			
	Remedial Action Planned or Taken		Status		Progress
	Repair line failure during a storm			Complete	20-Apr
	Repair line failure during a storm			Complete	20-Apr
	On cycle tree trimming			Complete	20-Jun
Rank	Substation	Circuit	District	Customers	Outages
2	Piney Fork	Cochran Mill	Charleroi	1,192	8
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.5	Line Failure	98%	Q4 2019
	SAIDI	1491	Equipment Failure	1%	Q1 2020
	SAIFI	2.31	Animal	1%	Q2 2020
	CAIDI	646	All Other	0%	
	Customer Minutes	1,777,216			
	Customers Affected	2,750			
	Remedial Action Planned or Taken		Status		Progress
	Repair line failure			Complete	19-Oct
	Repair line failure			Complete	19-Oct
	Repair damage caused by an animal			Complete	20-Jun
	Overhead circuit inspection			To Be Completed 2020	4%
Rank	Substation	Circuit	District	Customers	Outages
3	Smithton	Fitzhenry	Charleroi	1,151	25
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.4	Trees Off ROW	91%	Q2 2020
	SAIDI	1474	Unknown	6%	
	SAIFI	3.14	Equipment Failure	1%	
	CAIDI	469	All Other	2%	
	Customer Minutes	1,696,527			
	Customers Affected	3,616			
	Remedial Action Planned or Taken		Status		Progress
	On cycle tree trimming			Complete	19-Nov
	Repair damage caused by a tree during a storm			Complete	20-Apr
	Repair equipment failure during a storm			Complete	20-Apr

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
4	Lovedale	Township	Charleroi	1622	41
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2	Unknown	36%	Q1 2020
	SAIDI	868	Trees Off ROW	22%	Q2 2020
	SAIFI	3.16	Object Contact with Line	21%	
	CAIDI	275	All Other	21%	
	Customer Minutes	1,408,110			
	Customers Affected	5,126			
	Remedial Action Planned or Taken		Status		Progress
	Restore unknown outage during a storm			Complete	20-Jan
	Repair damage caused by a tree during a storm			Complete	20-Mar
	Repair damage caused by a tree during a storm			Complete	20-Apr
	Restore unknown outage during a storm			Complete	20-Apr
	Overhead circuit inspection			To Be Completed 2020	10%
Rank	Substation	Circuit	District	Customers	Outages
5	Westraver	Pittsburgh Coal	Charleroi	1,845	30
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.9	Trees Off ROW	81%	Q3 2019
	SAIDI	753	Line Failure	13%	Q4 2019
	SAIFI	4.86	Vehicle	4%	Q1 2020
	CAIDI	155	All Other	2%	Q2 2020
	Customer Minutes	1,389,873			
	Customers Affected	8,961			
	Remedial Action Planned or Taken		Status		Progress
	Repair damage caused by a tree			Complete	19-Jul
	Repair damage caused by a tree during a storm			Complete	19-Jul
	Repair damage caused by a tree during a storm			Complete	19-Oct
	Overhead circuit inspection			Complete	19-Nov
	Repair damage caused by a vehicle			Complete	19-Dec
	Repair damage caused by a tree during a storm			Complete	20-Mar
	Repair damage caused by a tree during a storm			Complete	20-Apr

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
6	Piney Fork	Stoltz	Charleroi	2253	20
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.6	Trees Off ROW	77%	Q3 2019
	SAIDI	527	Bird	18%	Q4 2019
	SAIFI	2.45	Line Failure	3%	Q1 2020
	CAIDI	215	All Other	2%	Q2 2020
	Customer Minutes	1,188,282			
	Customers Affected	5,520			
	Remedial Action Planned or Taken		Status		Progress
	Repair damage caused by a tree during a storm			Complete	19-Aug
	Repair damage caused by a tree during a storm			Complete	19-Sep
	Repair damage caused by a bird			Complete	19-Oct
	Repair damage caused by a tree			Complete	19-Oct
	Repair line failure			Complete	20-Jun
Rank	Substation	Circuit	District	Customers	Outages
7	Dutch Fork	Claysville	Washington Pa	1585	70
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.6	Trees Off ROW	57%	Q3 2019
	SAIDI	740	Vehicle	19%	Q4 2019
	SAIFI	2.63	Line Failure	15%	Q1 2020
	CAIDI	281	All Other	9%	Q2 2020
	Customer Minutes	1,172,572			
	Customers Affected	4,172			
	Remedial Action Planned or Taken		Status		Progress
	Repair damage caused by a tree during a storm			Complete	19-Jul
	Repair damage caused by a vehicle during a storm			Complete	19-Jul
	Forced outage to repair damage			Complete	19-Oct
	Repair line failure during a storm			Complete	19-Nov
	Repair damage caused by a tree during a storm			Complete	20-Jan
	Repair damage caused by a tree			Complete	20-Jun
	Zone 1 Infrared Inspection			To Be Completed 2020	0%

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
8	St. Clair	Mclaughlin	Boyce	648	30
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.6	Trees Off ROW	96%	Q4 2019
	SAIDI	1797	Unknown	2%	Q1 2020
	SAIFI	6.57	Line Failure	1%	Q2 2020
	CAIDI	273	All Other	1%	
	Customer Minutes	1,164,711			
	Customers Affected	4,259			
	Remedial Action Planned or Taken		Status		Progress
	Repair damage caused by a tree			Complete	19-Dec
	Repair line failure			Complete	20-Jan
	Repair damage caused by a tree			Complete	20-May
Rank	Substation	Circuit	District	Customers	Outages
9	Charleroi	Speers	Charleroi	1,423	54
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.5	Trees Off ROW	88%	Q2 2020
	SAIDI	778	Trees On ROW	3%	
	SAIFI	1.91	Equipment Failure	3%	
	CAIDI	407	All Other	6%	
	Customer Minutes	1,107,091			
	Customers Affected	2,723			
	Remedial Action Planned or Taken		Status		Progress
	Repair damage caused by a tree during a storm			Complete	20-Jun
	Repair damage caused by a tree during a storm			Complete	20-Jun
Rank	Substation	Circuit	District	Customers	Outages
10	Buckeye No.3	Paisley	Jefferson	667	16
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.5	Trees Off ROW	94%	Q4 2019
	SAIDI	1628	Equipment Failure	5%	Q2 2020
	SAIFI	2.04	Line Failure	1%	
	CAIDI	797	All Other	0%	
	Customer Minutes	1,085,609			
	Customers Affected	1,362			
	Remedial Action Planned or Taken		Status		Progress
	Repair damage caused by a tree during a storm			Complete	19-Nov
	On cycle tree trimming			Complete	20-Feb
	Repair damage caused by a tree during a storm			Complete	20-Jun

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
11	Rutan	Bristoria	Jefferson	1,143	90
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.5	Trees Off ROW	73%	Q3 2019
	SAIDI	944	Line Failure	14%	Q4 2019
	SAIFI	2.54	Unknown	7%	Q1 2020
	CAIDI	372	All Other	6%	Q2 2020
	Customer Minutes	1,078,554			
	Customers Affected	2,900			
	Remedial Action Planned or Taken		Status		Progress
	Repair damage caused by a tree during a storm			Complete	19-Jul
	Restore unknown outage			Complete	19-Aug
	Forestry off cycle "J work"			Complete	19-Sep
	Repair line failure			Complete	19-Nov
	Repair damage caused by a tree			Complete	20-Jan
	Repair line failure			Complete	20-May
Rank	Substation	Circuit	District	Customers	Outages
12	Franklin	Rogersville	Jefferson	811	63
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.5	Trees Off ROW	49%	Q3 2019
	SAIDI	1329	Line Failure	41%	Q4 2019
	SAIFI	3.83	Forced Outage	6%	Q1 2020
	CAIDI	347	All Other	4%	Q2 2020
	Customer Minutes	1,077,888			
	Customers Affected	3,109			
	Remedial Action Planned or Taken		Status		Progress
	Repair line failure during a storm			Complete	19-Jul
	Repair damage caused by a tree during a storm			Complete	19-Jul
	Repair line failure			Complete	19-Dec
	Repair damage caused by a tree			Complete	19-Dec
	Repair damage caused by a tree during a storm			Complete	20-Mar
	Repair damage caused by a tree during a storm			Complete	20-Apr
	Zone 1 Infrared Inspection			To Be Completed 2020	0%

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
13	Whiteley	Mt. Morris	Jefferson	1061	48
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.4	Trees Off ROW	56%	Q3 2019
	SAIDI	969	Equipment Failure	35%	Q4 2019
	SAIFI	2.38	Line Failure	5%	Q1 2020
	CAIDI	407	All Other	4%	Q2 2020
	Customer Minutes	1,027,977			
	Customers Affected	2,525			
	Remedial Action Planned or Taken		Status		Progress
	Repair damage caused by a tree during a storm			Complete	19-Jul
	Repair equipment failure			Complete	19-Sep
	Repair damage caused by a tree during a storm			Complete	19-Oct
	Repair damage caused by a tree			Complete	20-Mar
	Repair damage caused by a tree during a storm			Complete	20-Apr
	Overhead circuit inspection			To be Completed 2020	29%
Rank	Substation	Circuit	District	Customers	Outages
14	Smithton	Smithton	Charleroi	989	25
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.4	Trees Off ROW	85%	Q2 2020
	SAIDI	1029	Line Failure	13%	
	SAIFI	2.03	Unknown	1%	
	CAIDI	507	All Other	1%	
	Customer Minutes	1,017,308			
	Customers Affected	2,006			
	Remedial Action Planned or Taken		Status		Progress
	Repair damage caused by a tree during a storm			Complete	20-Apr
	Repair line failure			Complete	20-Jun
Rank	Substation	Circuit	District	Customers	Outages
15	Amity	Banetown	Washington Pa	1,472	51
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.3	Trees Off ROW	85%	Q2 2020
	SAIDI	642	Trees On ROW	8%	
	SAIFI	1.53	Line Failure	3%	
	CAIDI	419	All Other	4%	
	Customer Minutes	945,694			
	Customers Affected	2,259			
	Remedial Action Planned or Taken		Status		Progress
	Repair damage caused by a tree			Complete	20-Apr
	Repair damage caused by a tree			Complete	20-May
	Overhead circuit inspection			To Be Completed 2020	89%

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
16	Butler	Center Ave	Butler	1638	34
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.3	Trees Off ROW	52%	Q1 2020
	SAIDI	562	Vehicle	43%	Q2 2020
	SAIFI	2.62	Line Failure	3%	
	CAIDI	215	All Other	2%	
	Customer Minutes	919,912			
	Customers Affected	4,286			
	Remedial Action Planned or Taken		Status		Progress
	On cycle tree trimming			Complete	19-Dec
	Repair damage caused by a tree during a storm			Complete	20-Jan
	Repair damage caused by a tree during a storm			Complete	20-Jun
Rank	Substation	Circuit	District	Customers	Outages
17	Saltsburg	Saltsburg	Arnold	1,389	55
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.2	Trees Off ROW	81%	Q3 2019
	SAIDI	644	Unknown	5%	Q2 2020
	SAIFI	2.04	Wind	4%	
	CAIDI	316	All Other	10%	
	Customer Minutes	895,061			
	Customers Affected	2,834			
	Remedial Action Planned or Taken		Status		Progress
	Repair damage caused by a tree during a storm			Complete	19-Jul
	Repair line failure during a storm			Complete	19-Jul
	Restore unknown outage			Complete	19-Jul
	Repair damage caused by a tree during a storm			Complete	20-Apr
	Overhead circuit inspection			Complete	20-Jun

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
18	Bethlen	Laurel Valley	Latrobe	1,304	75
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.2	Trees Off ROW	21%	Q3 2019
	SAIDI	677	Equipment Failure	19%	Q4 2019
	SAIFI	4.33	Trees on ROW	16%	Q1 2020
	CAIDI	156	All Other	44%	Q2 2020
	Customer Minutes	882,511			
	Customers Affected	5,640			
	Remedial Action Planned or Taken		Status		Progress
	Repair damage caused by a tree during a storm			Complete	19-Jul
	Repair equipment failure			Complete	19-Aug
	Forced outage to repair damage during a storm			Complete	19-Sep
	Repair damage caused by a tree during a storm			Complete	19-Oct
	Repair damage caused by a tree during a storm			Complete	20-Mar
	Repair damage caused by wind during a storm			Complete	20-Apr
	Zone 1 Infrared Inspection			To Be Completed 2020	0%
Rank	Substation	Circuit	District	Customers	Outages
19	Purcell	Artemas	Hyndman	597	26
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.2	Trees Off ROW	77%	Q4 2019
	SAIDI	1472	Forced Outage	19%	Q1 2020
	SAIFI	3.17	Line Failure	1%	Q2 2020
	CAIDI	465	All Other	3%	
	Customer Minutes	878,580			
	Customers Affected	1,890			
	Remedial Action Planned or Taken		Status		Progress
	Forced outage to repair damage			Complete	19-Dec
	Repair damage caused by a tree during a storm			Complete	19-Dec
	On cycle tree trimming			Complete	19-Dec
	Repair damage caused by a tree during a storm			Complete	20-Mar
	Repair damage caused by a tree during a storm			Complete	20-Apr

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
20	North Washington	Poke Run	Arnold	1229	64
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.2	Trees Off ROW	88%	Q3 2019
	SAIDI	708	Unknown	7%	Q4 2019
	SAIFI	2.29	Trees on ROW	2%	Q1 2020
	CAIDI	309	All Other	3%	Q2 2020
	Customer Minutes	869,823			
	Customers Affected	2,817			
	Remedial Action Planned or Taken		Status		Progress
	Repair damage caused by a tree during a storm			Complete	19-Jul
	Repair line failure			Complete	19-Aug
	Repair damage caused by a tree			Complete	19-Sep
	Repair damage caused by a tree during a storm			Complete	19-Oct
	Repair damage caused by a tree during a storm			Complete	20-Mar
	Repair damage caused by a tree during a storm			Complete	20-Apr
Rank	Substation	Circuit	District	Customers	Outages
21	Smith	Florence	Washington Pa	806	54
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.2	Trees on ROW	64%	Q3 2019
	SAIDI	1045	Forced Outage	15%	Q4 2019
	SAIFI	7.11	Line Failure	11%	Q1 2020
	CAIDI	147	All Other	10%	Q2 2020
	Customer Minutes	842,580			
	Customers Affected	5,732			
	Remedial Action Planned or Taken		Status		Progress
	Forced outage to repair damage			Complete	19-Jul
	Repair line failure during a storm			Complete	19-Jul
	Repair line failure during a storm			Complete	19-Nov
	Repair damage caused by a tree during a storm			Complete	20-Mar
	Repair damage caused by a tree			Complete	20-Jun
	Enhanced WPC remediation			To Be Completed 2020	0%

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
22	Finleyville	Finleyville	Charleroi	1,302	33
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.2	Trees Off ROW	58%	Q4 2019
	SAIDI	639	Line Failure	33%	Q1 2020
	SAIFI	2.93	Equipment Failure	3%	Q2 2020
	CAIDI	218	All Other	6%	
	Customer Minutes	832,285			
	Customers Affected	3,821			
	Remedial Action Planned or Taken		Status		Progress
	Repair damage caused by a tree during a storm			Complete	19-Nov
	Repair damage caused by a tree during a storm			Complete	20-Jan
	Repair line failure during a storm			Complete	20-Apr
Rank	Substation	Circuit	District	Customers	Outages
23	Marvindale	Clermont	St Marys	851	16
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.1	Trees Off ROW	45%	Q2 2020
	SAIDI	954	Animal	28%	
	SAIFI	4.22	Forced Outage	10%	
	CAIDI	226	All Other	17%	
	Customer Minutes	811,735			
	Customers Affected	3,593			
	Remedial Action Planned or Taken		Status		Progress
	On cycle tree trimming			Complete	19-Nov
	Forced outage to repair damage during a storm			Complete	20-Jun
	Repair damage caused by a tree during a storm			Complete	20-Jun
Rank	Substation	Circuit	District	Customers	Outages
24	Pittsburgh Mills	Tawny Run	Arnold	845	30
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.1	Trees Off ROW	75%	Q2 2020
	SAIDI	927	Trees on ROW	17%	
	SAIFI	3.53	Unknown	4%	
	CAIDI	263	All Other	4%	
	Customer Minutes	783,142			
	Customers Affected	2,982			
	Remedial Action Planned or Taken		Status		Progress
	Repair damage caused by a tree during a storm			Complete	20-Apr
	Overhead circuit inspection			Complete	20-Apr
	Restore unknown outage			Complete	20-Jun

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
25	Enlow	Summit	Boyce	1,806	8
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1	Trees Off ROW	68%	Q2 2020
	SAIDI	413	Unknown	32%	
	SAIFI	3.01	All Other	0%	
	CAIDI	137			
	Customer Minutes	745,297			
	Customers Affected	5,439			
	Remedial Action Planned or Taken		Status		Progress
	Repair damage caused by a tree during a storm			Complete	20-Jun
	Restore unknown outage during a storm			Complete	20-Jun
Rank	Substation	Circuit	District	Customers	Outages
26	Murrycrest	Sardis Road	Jeannette	1,409	35
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1	Trees Off ROW	79%	Q2 2020
	SAIDI	520	Animal	13%	
	SAIFI	6.38	Lightning	3%	
	CAIDI	81	All Other	5%	
	Customer Minutes	732,237			
	Customers Affected	8,991			
	Remedial Action Planned or Taken		Status		Progress
	Repair damage caused by a tree			Complete	20-Apr
	Repair damage caused by an animal			Complete	20-May
Rank	Substation	Circuit	District	Customers	Outages
27	Kiski Valley	Kittanning Rd	Arnold	1,786	32
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1	Trees on ROW	64%	Q3 2019
	SAIDI	400	Line Failure	27%	Q4 2019
	SAIFI	2.67	Equipment Failure	3%	Q1 2020
	CAIDI	150	All Other	6%	Q2 2020
	Customer Minutes	714,052			
	Customers Affected	4,760			
	Remedial Action Planned or Taken		Status		Progress
	Repair damage caused by a tree during a storm			Complete	19-Jul
	Repair line failure			Complete	19-Sep
	Repair damage caused by a tree			Complete	19-Oct
	Repair damage caused by a tree during a storm			Complete	20-Mar
	Repair damage caused by a tree during a storm			Complete	20-Jun

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
28	St. Clair	Skyridge	Boyce	899	19
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1	Trees Off ROW	93%	Q3 2019
	SAIDI	789	Line Failure	3%	Q4 2019
	SAIFI	4.38	Equipment Failure	2%	Q1 2020
	CAIDI	180	All Other	2%	Q2 2020
	Customer Minutes	708,886			
	Customers Affected	3,939			
	Remedial Action Planned or Taken		Status		Progress
	Repair damage caused by a tree during a storm			Complete	19-Jul
	Repair damage caused by a tree during a storm			Complete	19-Sep
	Repair damage caused by a tree during a storm			Complete	19-Oct
	Repair equipment failure			Complete	20-Jun
	On cycle tree trimming			To be Completed 2020	95%
Rank	Substation	Circuit	District	Customers	Outages
29	Murrycrest	Christy Road	Jeannette	1,033	45
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1	Trees Off ROW	61%	Q4 2019
	SAIDI	677	Wind	33%	Q1 2020
	SAIFI	2.03	Equipment Failure	3%	Q2 2020
	CAIDI	334	All Other	3%	
	Customer Minutes	699,025			
	Customers Affected	2,092			
	Remedial Action Planned or Taken		Status		Progress
	Repair damage caused by a tree			Complete	19-Oct
	Repair damage caused by wind during a storm			Complete	19-Oct
	Repair damage caused by a tree during a storm			Complete	20-Mar
	Repair damage caused by a tree during a storm			Complete	20-Apr

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
30	Waterville	Waterville	State College	354	24
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1	Trees Off ROW	64%	Q3 2019
	SAIDI	1965	Other Electric Utility	34%	Q4 2019
	SAIFI	6.59	Animal	1%	Q1 2020
	CAIDI	298	All Other	1%	Q2 2020
	Customer Minutes	6,956,767			
	Customers Affected	2,333			
	Remedial Action Planned or Taken		Status		Progress
	Restore outage caused by other electric utility			Complete	19-Aug
	Repair damage caused by a tree during a storm			Complete	19-Dec
	Repair damage caused by a tree during a storm			Complete	20-Feb
	Restore outage caused by other electric utility			Complete	20-Jun
	On cycle tree trimming			To Be Completed 2020	63%
Rank	Substation	Circuit	District	Customers	Outages
31	Driftwood	Driftwood	St Marys	989	36
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.9	Trees Off ROW	77%	Q2 2020
	SAIDI	688	Trees on ROW	14%	
	SAIFI	2.46	Unknown	5%	
	CAIDI	280	All Other	4%	
	Customer Minutes	680,818			
	Customers Affected	2,435			
	Remedial Action Planned or Taken		Status		Progress
	Repair damage caused by a tree during a storm			Complete	20-Apr
	Repair damage caused by a tree during a storm			Complete	20-Apr
	Overhead circuit inspection			Complete	20-Apr
Rank	Substation	Circuit	District	Customers	Outages
32	Hilliards	Hilliards	Butler	892	27
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.9	Trees Off ROW	97%	Q1 2020
	SAIDI	757	Unknown	2%	Q2 2020
	SAIFI	2.5	All Other	1%	
	CAIDI	303			
	Customer Minutes	675,567			
	Customers Affected	2,232			
	Remedial Action Planned or Taken		Status		Progress
	Repair damage caused by a tree during a storm			Complete	20-Jan
	Repair damage caused by a tree during a storm			Complete	20-Mar
	Repair damage caused by a tree during a storm			Complete	20-May

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
33	Large	Large	Charleroi	548	17
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.9	Equipment Failure	68%	Q2 2020
	SAIDI	1199	Trees Off ROW	23%	
	SAIFI	2.13	Trees on ROW	2%	
	CAIDI	563	All Other	7%	
	Customer Minutes	657,005			
	Customers Affected	1,168			
	Remedial Action Planned or Taken		Status		Progress
	Repair equipment failure during a storm			Complete	20-Apr
	Repair damage caused by a tree during a storm			Complete	20-Apr
Rank	Substation	Circuit	District	Customers	Outages
34	Bethel Park	Clifton	Boyce	937	14
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.9	Trees on ROW	55%	Q3 2019
	SAIDI	694	Unknown	24%	Q4 2019
	SAIFI	5.2	Trees on ROW	12%	Q1 2020
	CAIDI	133	All Other	9%	Q2 2020
	Customer Minutes	649,962			
	Customers Affected	4,872			
	Remedial Action Planned or Taken		Status		Progress
	Repair line failure			Complete	19-Aug
	Repair damage caused by a tree during a storm			Complete	19-Sep
	On cycle tree trimming			Complete	19-Oct
	Repair damage caused by a tree			Complete	19-Oct
	Restore unknown outage			Complete	19-Nov
	Overhead circuit inspection			Complete	20-Jan
	Repair damage caused by a tree			Complete	20-May
Rank	Substation	Circuit	District	Customers	Outages
35	White Valley	Cloverleaf	Jeannette	2,139	23
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.9	Trees on ROW	97%	Q2 2020
	SAIDI	302	Line Failure	1%	
	SAIFI	1.55	All Other	2%	
	CAIDI	195			
	Customer Minutes	646,625			
	Customers Affected	3,310			
	Remedial Action Planned or Taken		Status		Progress
	Repair damage caused by a tree during a storm			Complete	20-Apr
	Repair line failure			Complete	20-Apr

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
36	Shaffers Corner	Stewart School	Arnold	1,995	21
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.9	Vehicle	54%	Q2 2020
	SAIDI	323	Trees on ROW	35%	
	SAIFI	3.33	Trees-Sec/Service	4%	
	CAIDI	97	All Other	7%	
	Customer Minutes	644,760			
	Customers Affected	6,643			
	Remedial Action Planned or Taken		Status		Progress
	Repair damage caused by a tree during a storm			Complete	20-Apr
	Overhead circuit inspection			Complete	20-Apr
	Repair damage caused by a vehicle			Complete	20-Jun
Rank	Substation	Circuit	District	Customers	Outages
37	Blue Ridge Summit	Sabillasville	Waynesboro	962	36
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.9	Trees Off ROW	60%	Q4 2019
	SAIDI	668	Line Failure	20%	Q1 2020
	SAIFI	2.99	Forced Outage	8%	Q2 2020
	CAIDI	224	All Other	12%	
	Customer Minutes	642,866			
	Customers Affected	2,874			
	Remedial Action Planned or Taken		Status		Progress
	Repair line failure during a storm			Complete	19-Nov
	Repair damage caused by a tree during a storm			Complete	19-Dec
	Repair damage caused by a tree during a storm			Complete	20-Feb
	Repair damage caused by a tree			Complete	20-May
Rank	Substation	Circuit	District	Customers	Outages
38	Bentleyville	Bentleyville	Charleroi	1085	18
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.9	Trees Off ROW	63%	Q2 2020
	SAIDI	592	Vehicle	15%	
	SAIFI	1.82	Unknown	14%	
	CAIDI	324	All Other	8%	
	Customer Minutes	641,923			
	Customers Affected	1,980			
	Remedial Action Planned or Taken		Status		Progress
	Repair damage caused by a tree during a storm			Complete	20-Apr
	Repair damage caused by a tree during a storm			Complete	20-Apr

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
39	Piney Fork	Knothole	Charleroi	1609	25
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.8	Equipment Failure	40%	Q3 2019
	SAIDI	378	Trees Off ROW	28%	Q1 2020
	SAIFI	2.69	Line Failure	27%	Q2 2020
	CAIDI	140	All Other	5%	
	Customer Minutes	607,865			
	Customers Affected	4,330			
	Remedial Action Planned or Taken		Status		Progress
	Repair damage caused by a tree			Complete	19-Jul
	Repair line failure			Complete	19-Aug
	On cycle tree trimming			Complete	20-Feb
	Repair equipment failure			Complete	20-Mar
	Repair line failure			Complete	20-Apr
Rank	Substation	Circuit	District	Customers	Outages
40	Bethlen	Darlington	Latrobe	1244	69
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.8	Trees Off ROW	53%	Q3 2019
	SAIDI	485	Wind	27%	Q4 2019
	SAIFI	2.09	Equipment Failure	8%	Q1 2020
	CAIDI	233	All Other	12%	Q2 2020
	Customer Minutes	603,848			
	Customers Affected	2,594			
	Remedial Action Planned or Taken		Status		Progress
	Repair equipment failure during a storm			Complete	19-Jul
	Repair damage caused by a tree during a storm			Complete	19-Jul
	Repair damage caused by a tree			Complete	19-Oct
	Repair damage caused by a tree			Complete	20-Jan
	Repair damage caused by wind during a storm			Complete	20-Apr

West Penn					
Unranked circuits appearing 2 or more quarters in the last 4 quarters					
Substation	Circuit	3Q 2019	4Q 2019	1Q 2020	2Q 2020
Amity	Amity	X	X		
Atherton	East Residential	X	X		
Avella	Penowa	X		X	
Avella	W Middletown	X	X	X	
Bedford Road	Rt 220 North	X	X		
Bethlen	Laughlintown		X	X	
California	Malden	X	X	X	
Cecil	Hendersonville	X		X	
Cecil	Muse		X	X	
Cooperstown	Twin Willows	X	X	X	
Flintstone	Chaneysville	X	X		
Fort Palmer	West Fairfield	X	X	X	
Houston	Weavertown	X	X		
Hyndman	Route 96 South		X	X	
Kane	Russell City	X	X		
Lagonda	Club Forty		X	X	
Mather	Jefferson	X	X		
North Fayette	Tyre		X	X	
Roundhill	Roundhill	X	X		
Shanor Manor	Oneida	X	X		
Smith	Burgettstown	X		X	
Smith	Francis Mine	X	X	X	
State College	West Residential	X		X	

West Penn				
Unranked circuits with remedial actions scheduled to be or recently completed				
Substation	Circuit	Remedial Action Planned	Status of Remedial Work	Progress of Remedial Work
Mather	Jefferson	Overhead circuit inspection	To Be Completed 2020	7%
Houston	Weavertown	Overhead circuit inspection	Complete	20-Jun
Roundhill	Roundhill	Zone 1 Infrared Inspection	Complete	20-Jun
Shanor Manor	Oneida	Zone 1 Infrared Inspection	Complete	20-Jun
Kane	Russell City	Zone 1 Infrared Inspection	Complete	20-Jun
Cooperstown	Twin Willows	Overhead circuit inspection	To Be Completed 2020	7%
Bethlen	Laughlintown	Overhead circuit inspection	To Be Completed 2020	33%
Lagonda	Club Forty	On cycle tree trimming	To Be Completed 2020	26%

Pursuant to Docket Nos. D-2014-2365991, D-2014-2365992, D-2014-2365993, and D-2014-2365994, (Appendix A)(3): The Companies are directed to track and measure line hit incidents, causes of line hits, and damage recovery amounts for all third-party line hit incidents for each Company.

Met-Ed – Third Party Line Hit Incidents 2nd Quarter 2020 12-Month Rolling			
Cause of Line Hit	Number of Incidents	Invoice Amount (\$)	Recovery Amount (\$)
Dig In - Other	13	12,781	1,627
Excavated in Tolerance	21	172,333	74,433
Excavation Inconsistent with Ticket Scope	23	28,547	12,237
Excavation Prior to Lawful Start Date	3	5,602	5,602
Expired Ticket	11	34,191	26,266
Hand Digging	3	5,289	4,789
Marked Improperly	21	236,664	120,361
No Ticket	38	56,389	41,174
Total	133	551,796	286,489

Penelec – Third Party Line Hit Incidents 2nd Quarter 2020 12-Month Rolling			
Cause of Line Hit	Number of Incidents	Invoice Amount (\$)	Recovery Amount (\$)
Dig In - Other	23	266	0
Excavated in Tolerance	44	54,954	37,791
Excavation Inconsistent with Ticket Scope	7	12,576	2,659
Excavation Prior to Lawful Start Date	7	9,859	5,390
Expired Ticket	4	2,384	2,246
Hand Digging	5	528	528
Marked Improperly	35	53,015	43,054
No Ticket	47	75,527	56,308
Total	172	209,109	147,976

Penn Power – Third Party Line Hit Incidents 2nd Quarter 2020 12-Month Rolling			
Cause of Line Hit	Number of Incidents	Invoice Amount (\$)	Recovery Amount (\$)
Dig In - Other	2	1,989	2,110
Excavated in Tolerance	17	11,328	6,669
Excavation Inconsistent with Ticket Scope	3	10,113	3,429
Excavation Prior to Lawful Start Date	2	1,913	3,032
Expired Ticket	5	7,306	2,500
Hand Digging	0	0	0
Marked Improperly	9	22,470	17,978
No Ticket	28	26,793	15,071
Total	66	81,912	50,789

West Penn – Third Party Line Hit Incidents 2nd Quarter 2020 12-Month Rolling			
Cause of Line Hit	Number of Incidents	Invoice Amount (\$)	Recovery Amount (\$)
Dig In - Other	29	38,110	19,330
Excavated in Tolerance	5	5,744	5,744
Excavation Inconsistent with Ticket Scope	5	6,010	212
Excavation Prior to Lawful Start Date	3	2,127	2,127
Expired Ticket	7	11,150	8,099
Hand Digging	9	7,443	7,311
Marked Improperly	30	144,021	107,497
No Ticket	52	140,187	50,787
Total	140	354,792	201,107

Cause of Line Hit	Definition
Dig In - Other	Still under investigation
Excavated in Tolerance	Excavator didn't use prudent digging techniques within the Tolerance Zone
Excavation Inconsistent with Ticket Scope	Excavation outside dig box and/or scope of ticket
Excavation Prior to Lawful Start Date	Three business days prior to start of excavation from when the ticket was called in to mark
Expired Ticket	After ten business days have passed, the ticket is considered expired
Hand Digging	Excavator was hand digging within the Tolerance Zone, however the facility was still hit
Marked Improperly	Ticket called in, facility and/or equipment was not marked properly
No Ticket	No contact was made to create a dig-request ticket

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

Joint 2nd Quarter 2019 Reliability Report – :
Metropolitan Edison Company, :
Pennsylvania Electric Company : Docket No. L-00030161
Pennsylvania Power Company and West :
Penn Power Company – Public Version :

CERTIFICATE OF SERVICE

I hereby certify that I have this day served a true and correct copy of the foregoing document upon the individuals listed below, in accordance with the requirements of 52 Pa. Code § 1.54 (relating to service by a participant).

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