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September 16, 2024

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

**Re: PECO Energy Company – Request to the Pennsylvania Public Utility Commission for
Exclusion of Major Outage for Reliability Reporting Purpose
Docket No. M-2024-3050784**

Dear Secretary Chiavetta:

Pursuant to the Commission's September 3, 2024 Secretarial Letter in the above-referenced docket, enclosed please find PECO Energy Company's ("PECO") Response to the Data Request of the Bureau of Technical Utility Services as well as a revised Request for Major Event Exclusion.

We acknowledge receipt of your inquiry on September 3rd, 2024, regarding a data request for the exclusion of a major outage. We appreciate the opportunity to provide the necessary information and address your questions.

To provide a comprehensive explanation, we would like to offer some context regarding our data: On July 14, 2024, our territory experienced inclement weather, leading to outages and the activation of our emergency operation center. The PUC was notified at 18:10 on the same day. The post-validations process revealed that we did not reach the threshold levels for storm reporting until July 16, 2024, 13:54:00, and lasted until July 19th, 2024, 20:34:39. The following days were dedicated to restoration. Our longest customer outage was approximately 5 days with power being restored on 07/22/2024. This single customer was part of a greater vegetation event that impacted 1,582 customers.

Rosemary Chiavetta, Secretary
September 16, 2024
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We trust that the information provided addresses your questions comprehensively. Thank you for your assistance in this matter and please direct any questions regarding the above to Megan McDevitt, Senior Manager, Retail Rates at (267) 533 1942 or via email: megan.mcdevitt@exeloncorp.com.

Sincerely,

A handwritten signature in black ink, appearing to read "R. Chiavetta", followed by a horizontal flourish line. The signature is contained within a rectangular box.

Enclosures

Cc: P. Diskin, Bureau of Technical Utility Services (email only)
D. Searforce, Bureau of Technical Utility Services (email only)
J. Van Zant, Bureau of Technical Utility Services (email only)

Commonwealth of Pennsylvania
Pennsylvania Public Utility Commission
Docket M-2024-3050784

Response of PECO Energy Company
To Data Request of the
Bureau of Technical Utility Services

September 16, 2024

TUS-1:

1. Reference PECO Energy Company’s (PECO) Exclusion Request for reliability reporting purposes.

a. PECO states that the first customer service interruption occurred on 7/14/2024, and provided weather forecasts for 7/15/2024 and 7/16/2024, respectively.

i. For this specific storm event provide the following:

1. The weather event or cause of the service interruptions that began 7/14/2024.

Response:

Weather Report Summary on 7/14/2024 at 13:00:

“Unseasonably hot with daily chances for late afternoon thunderstorms today through Tuesday. Rain chances increase on Wednesday/Thursday in association with a cold front. Drier conditions and more seasonable temperatures Friday and Saturday.” (STORMGEO 2024071413)

Date	Event Count
7/14/2024	114

Table 1

Comments: Due to the reported thunderstorms, the number of events in the PECO territory increased. Inclement weather caused PECO to open the emergency operation center. Upon data validation, the storm start time was changed to July 16th because the 14th and 15th were below the PUC storm threshold criteria.

Weather Report Summary on 7/15/2024 at 05:00:

“Daily chance of showers and thunderstorms can be expected through much of the week, with the highest rain chances on Wednesday and Thursday as a cold front moves through. Drier weather and more seasonable temperatures are then expected in the wake of the front Friday and Saturday.” (STORMGEO 2024071505)

Date	Event Count
7/15/2024	76

Table 2

Comments: The emergency operation center remained open on July 15 due to the weather forecast and an elevated number of outage events.

2. The total number of customers-minutes interrupted for this event.

Response:

Date	Event Count	Customer Interruptions	Customer Minutes
7/14/2024	114	22,543	3,241,408

Table 3

Date	Event Count	Customer Interruptions	Customer Minutes
7/15/2024	76	5,603	1,340,791

Table 4

Comments: The weather event shown in the previous response is shown in further detail in the tables above. These events were first deemed to be PUC reportable levels, however, after completing data validations they dropped below the threshold and became non-reportable.

3. A restoration curve for the storm event.

Response:

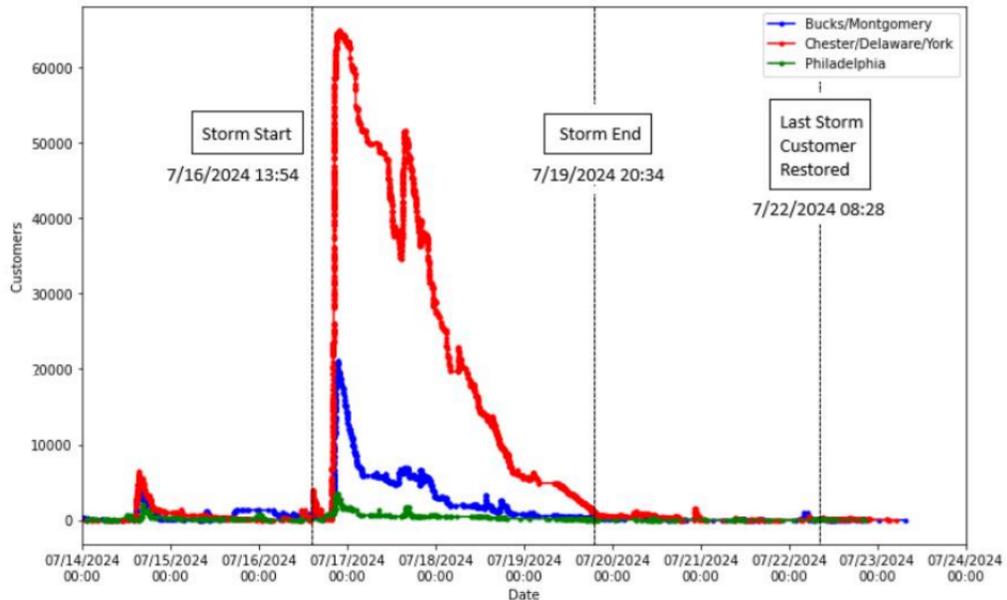


Figure 1: This figure illustrates the restoration curve from July 14, 2024, to July 22, 2024. The initial peak on July 14 triggered the activation of our emergency operations center and prompted the first PUC notification. During the validation process, it was

determined that the data from July 14-15 did not meet PUC reporting thresholds. The second peak, starting on July 16, marked the point when we reached reportable thresholds, which continued until late July 19.

b. PECO states that the first customer service interruption occurred on 7/14/2024 and that the last affected customer was restored on 7/22/2024.

i. For this specific event provide the following:

1. The total number of customers experiencing interruptions, by day, from 7/14/2024, through 7/22/2024.

Response:

Date Power was lost	Total Number of Sustained Customer Interruptions	Storm (Y/N)
2024-07-14	22,543	N
2024-07-15	5,603	N
2024-07-16*	112,287	Y
2024-07-17	48,059	Y
2024-07-18	12,482	Y
2024-07-19*	3,302	Y
2024-07-20	3,788	N
2024-07-21	1,234	N
2024-07-22	2,661	N

*Table 5: *Please note that the following days will include customer interruptions due to both storm and non-storm events.*

2. The total number of trouble cases, by day, from 7/14/2024, through 7/22/2024.

Response:

Date Power was lost	Number of Events	Storm (Y/N)
2024-07-14	114	N
2024-07-15	76	N
2024-07-16*	448	Y
2024-07-17	296	Y
2024-07-18	116	Y
2024-07-19*	78	Y
2024-07-20	54	N
2024-07-21	37	N
2024-07-22	58	N

*Table 6: *Please note that the following days will include storm and non-storm events.*

3. The total number of affected customers restored, by day, from 7/14/2024, through 7/22/2024.

Response:

Restored Date	Customers Restored	Storm and Non-Storm (Y/N)
2024-07-14	11,805	N
2024-07-15	14,166	N
2024-07-16	24,217	Y
2024-07-17	51,085	Y
2024-07-18	31,765	Y
2024-07-19	35,810	Y
2024-07-20*	34,767	N
2024-07-21*	4,079	N
2024-07-22*	4,153	N

Table 7: * Please note that the above dates include storm events that were restored on days not affected by the storm.

4. The longest outage duration and the number of customers affected by that outage between 7/14/2024, through 7/22/2024.

Response:

The longest outage duration was from 7/16/2024 at 19:53 to 7/22/2024 at 08:28, impacting 1 customer. This customer was part of a larger vegetation event that impacted 1,582 customers. This event followed the same pattern as the restoration curve previously shown, where most customers were restored on 7/17 and 7/18. This was the last restored customer of the storm. There were no customers that experienced an eight-day outage duration from 7/14 to 7/22.

**PECO Energy Company Request
to the Pennsylvania Public Utility
Commission for Exclusion of Major**

Outage for Reliability Reporting Purpose :

DOCKET NO.: M-2024-3050784

VERIFICATION

I, Richard G. Webster, Jr., hereby state that the facts set forth in PECO's Response to the Bureau of Technical Utility Services' Data Request, TUS- is true and correct to the best of my knowledge, information, and belief, and that I expect to be able to prove the same at a hearing held in this matter. I understand that the statements herein are subject to the penalties of 18 Pa.C.S. § 4904 (relating to false statements to authorities).

Date: September 16, 2024



Richard G. Webster, Jr.
Vice President
Regulatory Policy & Strategy
PECO Energy Company

Attachment TUS-1

References

1. PECO, E. P. (2024, June 4). Understanding Weather Risk Codes. Philadelphia; Exelon.
2. STORMGEO. (2024, July 14). PECO_Briefing_2024071413.
3. STORMGEO. (2024, July 15). PECO_Briefing_2024071505.

Understanding Weather Risk Codes

EXELON WEATHER RISK COLOR CODES		
Color	Trouble Expected	Risk Level
Green	No Operational Trouble	Normal/No Risk
Yellow	Minor Operational Trouble	Slight/Moderate Risk
Orange	Moderate Operational Trouble	Moderate/Serious Risk
Red	Significant Operational Trouble	Severe Risk
Black	Major Operational Trouble	Catastrophic Risk

What do the Weather Risk Codes represent?

Risk codes have 2 parts (i.e. **Y6/G4**) that add up to 100%. Each part represents the probability of the forecasted trouble/risk we expect to see on the system. The highest probability color level is always first, and the remaining % is listed second, and defines how the event is leaning

Example:

- **Y6/G4** = 60% chance of Yellow; Minor Trouble & 40% chance of Green: No Trouble
- **Y6/O4** = 60% chance of Yellow: Minor Trouble & 40% chance of Orange: Moderate Trouble

What variables are used to determine Weather Risk Codes?

Forecasted Sustained Winds, Wind gusts, Thunderstorm Probability, Precipitation, and Thunderstorm Severity Index (TSI)

Who provides the Weather Risk Color Codes and at what frequency?

Exelon receives daily weather briefings via email from our weather vendor *impactweather@StormGeo.com*

Daily weather briefings and weather risk codes are issued twice daily at *0500 & 1300 hours*

Alerts/Updates are provided as conditions arise and are typically issued several hours in advance of the expected trouble

Why do we have Weather Risk Codes?

Weather Risk Codes allow us to prepare for an incoming storm or weather event more effectively by forecasting the expected impact on our system. This allows us to make better decisions in pre-event staffing and activating our Emergency Response Organization (ERO)

If you have questions or need access to this weather information, contact your EP department:

epdeptpeco@exeloncorp.com

epdeptbge@exeloncorp.com

epdeptphi@exeloncorp.com

epdeptcomed@exeloncorp.com

PECO DAILY BRIEFING

2. STORMGEO. (2024, July 14). PECO_Briefing_2024071413.

Summary:
 Unseasonably hot with daily chances for late afternoon thunderstorms today through Tuesday. Rain chances increase Wednesday/Thursday in association with a cold front. Drier conditions and more seasonable temperatures Friday and Saturday.

SUNDAY 07-14-2024 HIGHEST RISK CODE: **Y6/G4**

	Weather Code		Threat Timing							Temperature				Wind				Precipitation				Thunderstorm		
	Code	Reason	00-03	03-06	06-09	09-12	12-15	15-18	18-21	21-00	Low	High	Wind Chill	Heat Index	Dir	Sustained	Gusts	Isolated Gusts	Probability	Rain	Snow	Ice	Type	TSI
Bucks County	Y6/G4	TSI +1								79	92	79	99	WSW	4	6	7	40	0.13	0.00	0.00	Rain	3.8	19
Chester County	Y6/G4	TSI +1								78	90	78	99	SW	6	7	10	33	0.09	0.00	0.00	Rain	3.8	19
Delaware County	Y6/G4	TSI +1								80	91	80	99	SSW	6	8	10	32	0.03	0.00	0.00	Rain	3.7	19
Montgomery County	Y6/G4	TSI +1								80	92	80	100	WSW	5	7	9	40	0.09	0.00	0.00	Rain	3.8	20
Philadelphia	Y6/G4	TSI +1								82	93	82	100	SW	6	8	11	40	0.05	0.00	0.00	Rain	3.8	19
York County	G8/Y2	TSI +1								82	93	82	99	SW	4	6	7	15	0.02	0.00	0.00	-	3.8	9

Day 1 Forecast Discussion:

Mostly sunny and hot weather is forecast today with a slight chance of late afternoon and evening showers and thunderstorms.

MONDAY 07-15-2024 HIGHEST RISK CODE: **Y10/O0**

2. STORMGEO. (2024, July 14). PECO_Briefing_2024071413.

	Weather Code		Threat Timing								Temperature				Wind				Precipitation					Thunderstorm	
	Code	Reason	00-03	03-06	06-09	09-12	12-15	15-18	18-21	21-00	Low	High	Wind Chill	Heat Index	Dir	Sustained	Gusts	Isolated Gusts	Probability	Rain	Snow	Ice	Type	TSI	T-storm Prob
Bucks County	Y10/O0	TSI +1									74	95	74	102	SW	8	10	13	38	0.00	0.00	0.00	Rain	4.6	22
Chester County	Y10/O0	TSI +1									74	94	74	100	SW	8	10	13	32	0.15	0.00	0.00	Rain	4.6	22
Delaware County	Y10/O0	TSI +1									76	95	76	102	SW	8	10	13	30	0.01	0.00	0.00	Rain	4.6	22
Montgomery County	Y10/O0	TSI +1									76	96	76	104	SW	8	10	13	32	0.00	0.00	0.00	Rain	4.6	22
Philadelphia	Y10/O0	TSI +1									78	96	78	104	SW	9	11	15	31	0.00	0.00	0.00	Rain	4.6	22
York County	Y10/O0	TSI +1									76	95	76	102	WSW	7	9	12	38	0.05	0.00	0.00	Rain	4.8	22

Day 2 Forecast Discussion:

Hot and humid conditions are expected on Monday. Scattered thunderstorms will be possible during the late afternoon and evening as daytime heating interacts with some small-scale boundaries moving into the area. Some storms may be severe with frequent lightning and strong winds.

TUESDAY 07-16-2024 HIGHEST RISK CODE: **Y6/G4**

	Weather Code		Threat Timing								Temperature				Wind				Precipitation					Thunderstorm	
	Code	Reason	00-03	03-06	06-09	09-12	12-15	15-18	18-21	21-00	Low	High	Wind Chill	Heat Index	Dir	Sustained	Gusts	Isolated Gusts	Probability	Rain	Snow	Ice	Type	TSI	T-storm Prob
Bucks County	Y6/G4	TSI +1									73	98	73	106	SW	9	11	15	43	0.05	0.00	0.00	Rain	4.1	17
Chester County	Y6/G4	TSI +1									74	97	74	104	SW	9	11	15	36	0.08	0.00	0.00	Rain	4.1	17
Delaware County	Y6/G4	TSI +1									76	98	76	106	SW	10	12	16	36	0.08	0.00	0.00	Rain	4.1	15
Montgomery County	Y6/G4	TSI +1									76	99	76	108	SW	9	11	15	36	0.05	0.00	0.00	Rain	3.9	15
Philadelphia	Y6/G4	TSI +1									78	100	78	108	SW	11	14	18	37	0.04	0.00	0.00	Rain	4.1	17
York County	Y6/G4	TSI +1									76	100	76	106	SW	8	10	13	41	0.07	0.00	0.00	Rain	4.1	17

Day 3 Forecast Discussion:

Very hot conditions will continue on Tuesday, with another chance for late afternoon/evening scattered thunderstorms.

WEDNESDAY 07-17-2024 HIGHEST RISK CODE: **Y8/O2**

2. STORMGEO. (2024, July 14). PECO_Briefing_2024071413.

	Weather Code		Threat Timing								Temperature				Wind				Precipitation					Thunderstorm	
	Code	Reason	00-03	03-06	06-09	09-12	12-15	15-18	18-21	21-00	Low	High	Wind Chill	Heat Index	Dir	Sustained	Gusts	Isolated Gusts	Probability	Rain	Snow	Ice	Type	TSI	T-storm Prob
Bucks County	Y10/O0	TSI +1									78	94	78	104	WSW	8	10	13	72	0.55	0.00	0.00	Rain	4.7	30
Chester County	Y10/O0	TSI +1									76	92	76	102	WSW	9	11	15	71	0.45	0.00	0.00	Rain	4.7	30
Delaware County	Y10/O0	TSI +1									79	94	79	104	WSW	9	11	15	72	0.39	0.00	0.00	Rain	4.7	30
Montgomery County	Y10/O0	TSI +1									79	95	79	106	WSW	8	11	14	70	0.46	0.00	0.00	Rain	4.7	30
Philadelphia	Y8/O2	TSI +1									82	95	82	108	SW	9	12	15	71	0.44	0.00	0.00	Rain	4.7	31
York County	Y8/O2	TSI +1									77	91	77	99	WSW	7	9	12	68	0.30	0.00	0.00	Rain	4.7	35

Days 4-7 Forecast Discussion:

Chances for showers and thunderstorms will increase Wednesday and Thursday as a cold front approaches and moves through. Drier conditions are expected for most areas, along with more seasonable temperatures, behind the front Friday and Saturday.

THURSDAY 07-18-2024 HIGHEST RISK CODE: **G6/Y4**

	Weather Code		Threat Timing								Temperature				Wind				Precipitation					Thunderstorm	
	Code	Reason	00-03	03-06	06-09	09-12	12-15	15-18	18-21	21-00	Low	High	Wind Chill	Heat Index	Dir	Sustained	Gusts	Isolated Gusts	Probability	Rain	Snow	Ice	Type	TSI	T-storm Prob
Bucks County	G6/Y4	TSI +1									71	84	71	86	NW	5	7	9	78	0.56	0.00	0.00	Rain	3.1	30
Chester County	G6/Y4	TSI +1									71	82	71	84	NW	6	8	10	76	0.63	0.00	0.00	Rain	3.1	30
Delaware County	G6/Y4	TSI +1									73	83	73	86	NW	6	8	10	78	0.67	0.00	0.00	Rain	3.1	30
Montgomery County	G6/Y4	TSI +1									73	85	73	86	NW	6	8	10	76	0.57	0.00	0.00	Rain	3.1	30
Philadelphia	G6/Y4	TSI +1									76	85	76	88	NW	7	9	12	79	0.50	0.00	0.00	Rain	3.1	30
York County	G6/Y4	TSI +1									72	85	72	86	NNW	5	7	9	71	0.08	0.00	0.00	Rain	3.1	31

RISK LEGEND

PECO -Threat Timing (Summer)

-  Normal/No Risk
-  Slight/Minimal Risk
-  Moderate/Serious Risk
-  Severe Risk
-  Catastrophic Risk

Heat Index

-  >= 95F
-  >= 105F
-  >= 110F

Sustained Winds (Summer)

-  20-24 mph
-  25-30 mph
-  31-35 mph
-  >= 36 mph

Wind Gusts (Summer)

-  30-37 mph
-  38-43 mph
-  44-55 mph
-  >= 56 mph

Rainfall

-  >= 1.6 inches
-  >= 4.0 inches
-  >= 6.5 inches
-  >= 8.5 inches

Thunderstorm Severity Index

-  Weak (0.0-3.2): Thunderstorm gusts < 35 mph & isolated to occasional lightning
-  Typical (3.3-5.0): Thunderstorm gusts 35-45 mph & occasional lightning
-  Strong (5.1-6.6): Thunderstorm gusts 46-55 mph & frequent lightning
-  Severe (6.7-8.3): Thunderstorm gusts 56-65 mph & frequent lightning
-  Extreme (8.4-10.0): Thunderstorm gusts > 65 mph & frequent to continuous lightning

PECO Weather Code (Summer)

-  G10/Y0
-  G8/Y2
-  G6/Y4
-  Y6/G4
-  Y8/G2
-  Y10/O0
-  Y8/O2
-  Y6/O4
-  O6/Y4
-  O8/Y2
-  O10/R0
-  O8/R2
-  O6/R4
-  R6/O4
-  R8/O2
-  R10/B0
-  R8/B2
-  R6/B4
-  B6/R4
-  B8/R2
-  B10

Summary:
Daily chance of showers and thunderstorms can be expected through much of the week, with the highest rain chances on Wednesday and Thursday as a cold front moves through. Drier weather and more seasonable temperatures are then expected in the wake of the front Friday and Saturday.

MONDAY 07-15-2024 HIGHEST RISK CODE: Y8/G2

	Weather Code		Threat Timing								Temperature				Wind				Precipitation				Thunderstorm		
	Code	Reason	00-03	03-06	06-09	09-12	12-15	15-18	18-21	21-00	Low	High	Wind Chill	Heat Index	Dir	Sustained	Gusts	Isolated Gusts	Probability	Rain	Snow	Ice	Type	TSI	T-storm Prob
Bucks County	Y8/G2	T-storm Prob +1									73	94	73	102	SW	8	10	12	42	0.05	0.00	0.00	Rain	4.6	14
Chester County	Y8/G2	T-storm Prob +1									73	92	73	100	SW	8	10	13	36	0.07	0.00	0.00	Rain	4.6	14
Delaware County	Y8/G2	T-storm Prob +1									75	93	75	100	SW	8	10	13	33	0.11	0.00	0.00	Rain	4.6	14
Montgomery County	Y8/G2	T-storm Prob +1									75	95	75	102	SW	8	10	13	36	0.05	0.00	0.00	Rain	4.6	14
Philadelphia	Y8/G2	T-storm Prob +1									76	96	76	102	SW	9	11	15	34	0.08	0.00	0.00	-	4.6	14
York County	Y8/G2	T-storm Prob +1									75	95	75	102	WSW	7	9	12	37	0.26	0.00	0.00	Rain	4.6	13

Day 1 Forecast Discussion:

Hot and humid conditions can be expected today. Scattered thunderstorms will be possible during the late afternoon and evening as daytime heating interacts with some small-scale boundaries moving into the area. Some storms may be severe with frequent lightning and strong gusty winds.

	Weather Code		Threat Timing							Temperature				Wind				Precipitation					Thunderstorm	
	Code	Reason	00-03	03-06	06-09	09-12	12-15	15-18	18-21	21-00	Low	High	Wind Chill	Heat Index	Dir	Sustained	Gusts	Isolated Gusts	Probability	Rain	Snow	Ice	Type	TSI
Bucks County	Y8/G2	T-storm Prob +1								73	97	73	106	SW	9	12	15	48	0.01	0.00	0.00	Rain	4.7	17
Chester County	Y8/G2	T-storm Prob +1								74	95	74	104	SW	9	12	15	39	0.01	0.00	0.00	-	4.7	17
Delaware County	Y8/G2	T-storm Prob +1								76	96	76	106	SW	10	13	16	39	0.01	0.00	0.00	-	4.7	17
Montgomery County	Y8/G2	T-storm Prob +1								75	98	75	108	SW	9	12	15	41	0.01	0.00	0.00	Rain	4.7	17
Philadelphia	Y8/G2	T-storm Prob +1								78	99	78	108	SW	11	14	18	41	0.01	0.00	0.00	Rain	4.7	17
York County	Y6/G4	TSI +1								76	98	76	104	SW	9	11	15	41	0.04	0.00	0.00	Rain	3.8	17

Day 2 Forecast Discussion:

Very hot conditions will continue on Tuesday, with another chance for late afternoon/evening scattered thunderstorms.

	Weather Code		Threat Timing								Temperature				Wind				Precipitation				Thunderstorm		
	Code	Reason	00-03	03-06	06-09	09-12	12-15	15-18	18-21	21-00	Low	High	Wind Chill	Heat Index	Dir	Sustained	Gusts	Isolated Gusts	Probability	Rain	Snow	Ice	Type	TSI	T-storm Prob
Bucks County	Y6/O4	TSI +1									77	92	77	102	WSW	9	11	14	72	0.26	0.00	0.00	Rain	5.1	31
Chester County	Y6/O4	TSI +1									77	90	77	100	WSW	9	11	15	72	0.34	0.00	0.00	Rain	5.1	31
Delaware County	Y6/O4	TSI +1									79	92	79	102	WSW	9	11	15	71	0.28	0.00	0.00	Rain	5.1	31
Montgomery County	Y6/O4	TSI +1									79	93	79	102	WSW	9	11	15	70	0.28	0.00	0.00	Rain	5.1	31
Philadelphia	Y6/O4	TSI +1									81	94	81	104	SW	10	12	16	70	0.36	0.00	0.00	Rain	5.1	31
York County	Y8/G2	TSI +1									77	90	77	97	WSW	7	9	12	68	0.32	0.00	0.00	Rain	4.1	29

Day 3 Forecast Discussion:

Chances for showers and thunderstorms will increase on Wednesday as a cold front approaches from the northwest. Depending on the timing of the front, the thunderstorm activity could become more organized in nature and pose a threat for severe weather in the form of damaging winds and frequent lightning.

THURSDAY 07-18-2024 HIGHEST RISK CODE: **G6/Y4**

	Weather Code		Threat Timing								Temperature				Wind				Precipitation					Thunderstorm	
	Code	Reason	00-03	03-06	06-09	09-12	12-15	15-18	18-21	21-00	Low	High	Wind Chill	Heat Index	Dir	Sustained	Gusts	Isolated Gusts	Probability	Rain	Snow	Ice	Type	TSI	T-storm Prob
Bucks County	G6/Y4	TSI +1									71	82	71	84	NW	6	8	10	78	0.26	0.00	0.00	Rain	2.8	24
Chester County	G6/Y4	TSI +1									72	80	72	82	NW	7	9	12	76	0.32	0.00	0.00	Rain	2.8	24
Delaware County	G6/Y4	TSI +1									74	83	74	84	NW	7	9	12	78	0.37	0.00	0.00	Rain	2.8	24
Montgomery County	G6/Y4	TSI +1									73	83	73	84	NW	6	8	10	76	0.28	0.00	0.00	Rain	2.8	24
Philadelphia	G6/Y4	TSI +1									76	84	76	86	NW	7	9	12	78	0.37	0.00	0.00	Rain	2.8	24
York County	G8/Y2	Rain +2									72	83	72	84	NNW	6	8	10	70	0.14	0.00	0.00	Rain	2.7	13

Days 4-7 Forecast Discussion:

Showers and thunderstorms may linger into Thursday, especially during the morning. Drier and more seasonable temperatures are then forecast for Friday and much of Saturday. Rain chances may return late Saturday and into Sunday as the front starts to return north as a warm front.

FRIDAY 07-19-2024 HIGHEST RISK CODE: **G10/Y0**

	Weather Code		Threat Timing								Temperature				Wind				Precipitation					Thunderstorm	
	Code	Reason	00-03	03-06	06-09	09-12	12-15	15-18	18-21	21-00	Low	High	Wind Chill	Heat Index	Dir	Sustained	Gusts	Isolated Gusts	Probability	Rain	Snow	Ice	Type	TSI	T-storm Prob
Bucks County	G10/Y0	-									65	85	65	84	WNW	4	6	7	24	0.00	0.00	0.00	-	1.0	0
Chester County	G10/Y0	-									65	82	65	82	S	4	6	7	23	0.00	0.00	0.00	-	1.0	0
Delaware County	G10/Y0	-									68	84	68	84	SW	5	7	9	25	0.00	0.00	0.00	-	1.0	0
Montgomery County	G10/Y0	-									67	85	67	86	W	4	6	7	23	0.00	0.00	0.00	-	1.0	0
Philadelphia	G10/Y0	-									70	86	70	86	SW	5	7	9	27	0.00	0.00	0.00	-	1.0	0
York County	G10/Y0	-									66	85	66	84	SE	4	4	6	17	0.00	0.00	0.00	-	1.0	0

	Weather Code		Threat Timing								Temperature				Wind				Precipitation					Thunderstorm	
	Code	Reason	00-03	03-06	06-09	09-12	12-15	15-18	18-21	21-00	Low	High	Wind Chill	Heat Index	Dir	Sustained	Gusts	Isolated Gusts	Probability	Rain	Snow	Ice	Type	TSI	T-storm Prob
Bucks County	G8/Y2	TSI +1									65	85	65	86	W	4	5	6	13	0.00	0.00	0.00	-	2.0	7
Chester County	G8/Y2	TSI +1									66	83	66	84	S	5	6	8	16	0.00	0.00	0.00	-	2.0	7
Delaware County	G8/Y2	TSI +1									68	84	68	84	SW	6	7	9	16	0.00	0.00	0.00	-	2.0	7
Montgomery County	G8/Y2	TSI +1									67	85	67	86	WSW	5	6	8	14	0.00	0.00	0.00	-	2.0	7
Philadelphia	G8/Y2	TSI +1									70	86	70	86	SW	6	7	9	16	0.00	0.00	0.00	-	2.0	7
York County	G8/Y2	TSI +1									67	84	67	86	SSE	5	6	7	16	0.00	0.00	0.00	-	2.0	4

	Weather Code		Threat Timing								Temperature				Wind				Precipitation					Thunderstorm	
	Code	Reason	00-03	03-06	06-09	09-12	12-15	15-18	18-21	21-00	Low	High	Wind Chill	Heat Index	Dir	Sustained	Gusts	Isolated Gusts	Probability	Rain	Snow	Ice	Type	TSI	T-storm Prob
Bucks County	G8/Y2	TSI +1									67	87	67	90	WSW	4	5	6	18	0.00	0.00	0.00	-	2.0	10
Chester County	G8/Y2	TSI +1									67	84	67	86	SW	5	6	8	20	0.08	0.00	0.00	Rain	2.0	10
Delaware County	G8/Y2	TSI +1									69	86	69	88	SW	6	7	9	20	0.07	0.00	0.00	Rain	2.0	10
Montgomery County	G8/Y2	TSI +1									69	87	69	90	SW	5	6	8	18	0.05	0.00	0.00	-	2.0	10
Philadelphia	G8/Y2	TSI +1									71	87	71	90	SW	6	7	9	20	0.10	0.00	0.00	Rain	2.0	10
York County	G8/Y2	TSI +1									69	86	69	88	S	4	5	7	18	0.00	0.00	0.00	-	2.0	10

RISK LEGEND

PECO -Threat Timing (Summer)

- Normal/No Risk
- Slight/Minimal Risk
- Moderate/Serious Risk
- Severe Risk
- Catastrophic Risk

Heat Index

- >= 95F
- >= 105F
- >= 110F

Sustained Winds (Summer)

- 20-24 mph
- 25-30 mph
- 31-35 mph
- >= 36 mph

Wind Gusts (Summer)

- 30-37 mph
- 38-43 mph
- 44-55 mph
- >= 56 mph

Rainfall

- >= 1.6 inches
- >= 4.0 inches
- >= 6.5 inches
- >= 8.5 inches

Thunderstorm Severity Index

- Weak (0.0-3.2): Thunderstorm gusts < 35 mph & isolated to occasional lightning
- Typical (3.3-5.0): Thunderstorm gusts 35-45 mph & occasional lightning
- Strong (5.1-6.6): Thunderstorm gusts 46-55 mph & frequent lightning
- Severe (6.7-8.3): Thunderstorm gusts 56-65 mph & frequent lightning
- Extreme (8.4-10.0): Thunderstorm gusts > 65 mph & frequent to continuous lightning

PECO Weather Code (Summer)

- G10/Y0
- G8/Y2
- G6/Y4
- Y6/G4
- Y8/G2
- Y10/O0
- Y8/O2
- Y6/O4
- O6/Y4
- O8/Y2
- O10/R0
- O8/R2
- O6/R4
- R6/O4
- R8/O2
- R10/B0
- R8/B2
- R6/B4
- B6/R4
- B8/R2
- B10

REVISED
APPENDIX D
REQUEST FOR EXCLUSION OF MAJOR OUTAGE FOR
RELIABILITY REPORTING PURPOSES TO
PENNSYLVANIA PUBLIC UTILITY COMMISSION
P O BOX 3265
HARRISBURG, PA 17105-3265

Reports require an original and one copy to be filed with the Secretary's Bureau.

Information Required:

1. Requesting Utility: PECO Energy
Address: 2301 Market St.
Philadelphia, Pa 19101

2. Name and title of person making request:

Vincent Cuce
(Name)

Director of Engineering
(Title)

3. Telephone number: 215-841-4212
(Telephone Number)

4. Interruption or Outage:

(a) Number of customers affected: 170,944

Total number of customers in service territory 1,679,430

(b) Number of troubled locations in each geographic area affected listed by county and local political subdivision:

County	Sustained Customer Interruptions
BUCKS	9,795
CHESTER	107,297
DELAWARE	10,094
MONTGOMERY	36,323
PHILADELPHIA	7,226
YORK	209

(c) Reason for interruption or outage, including weather data where applicable:

Heavy winds, lightning and rain caused downed tree limbs on power lines and interrupted electric service to 170,944 customers.

Forecast issued on MONDAY, July 15, 2024 TIME: 13:00

Daily chances of showers and thunderstorms can be expected through much of the week, with the highest rain chances on Wednesday and Thursday as a cold front moves through. Drier weather and more seasonable temperatures are then expected in the wake of the front Friday

and Saturday.

Forecast issued on TUESDAY, July 16, 2024 TIME: 05:00

Summary: Scattered afternoon thunderstorms possible this afternoon, with a better chance of rain and storms tomorrow associated with a cold front. Some of the storms could be strong to severe. Rain chances will linger into Thursday, with drier conditions expected by the end of the week.

- (d) The number of utility workers and others assigned specifically to the repair work:

1,553

- (e) The date and time of the first notification of a service interruption: 07/14/2024 18:10

Note: Although first notice was provided to the PUC on 7/14/2024, after the data was validated, it was concluded that PUC reportable and excludable thresholds were not met until 7/16/2024 on 13:54.

- (f) The actual time that service was restored to the last affected customer: 07/22/2024 08:28

Note: This does not indicate the end time of the storm. As previously stated, the actual storm end was on 7/19 on 20:34.

Remarks: _____