

Ms. Thara Johnson  
City of Bellevue  
PO Box 90012  
Bellevue, WA 98009-9012

July 31, 2024

**RE: 2023 Electric Service Reliability Report**

Dear Ms. Johnson,

Enclosed please find Puget Sound Energy's Bellevue Electric Reliability Report for calendar year 2023. For the 19<sup>th</sup> consecutive year, service reliability experienced by Bellevue customers was well above that experienced by all PSE customers in the aggregate. Of the 99 distribution circuits serving Bellevue customers in 2023, 80 circuits had reliability numbers better than the system wide performance (26 circuits experienced no unplanned outages). 19 circuits had SAIDI or SAIFI figures that exceeded the 2023 PSE system wide performance values.

The report content for the 2023 report is the same as our 2022 report:

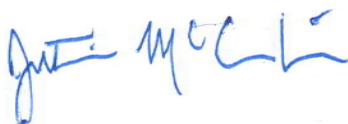
- Preface summarizing 2023 performance metrics reporting
- 2019 – 2023 System Average Interruption Duration Index (SAIDI) & System Average Interruption Frequency Index (SAIFI) Five Year History
- 2019 – 2023 SAIDI & SAIFI Five Year History Illustrated (graphed)
- 2023 Performance for Circuits Serving Bellevue
- 2023 Outages Summaries for Circuits Serving Bellevue
- 2023 Circuits Serving Bellevue Exceeding PSE SAIDI or SAIFI
- 2019 – 2023 Circuits That Exceeded PSE System SAIDI or SAIFI Five Year Overview
- 2023 Outage Events by Circuit list
- 2023 Report Codes Legend

We report PSE system-wide and Bellevue circuit SAIDI values consistent with reporting to the Washington State Utilities & Transportation Commission (WUTC).

Also included is our 2023 Service Quality Report Card available at PSE.com.

Please contact me at (206) 517-3432 or e-mail at [justin.mconachie@pse.com](mailto:justin.mconachie@pse.com) to discuss any questions or concerns you may have about the report materials.

Sincerely,



Justin McConachie  
Senior Municipal Liaison Manager

CC:

Kate Nesse – City of Bellevue, Community Development

Cassie Davis – City of Bellevue, Franchise Utility Manager

Jeff Beckwith – PSE, Supervisor Municipal Relations

Matt Larson – PSE, Local Government Affairs & Public Policy Manager

David Landers – PSE, Director Planning

Ryan Lambert – PSE, Manager System Planning

Enclosures

## BELLEVUE ELECTRIC RELIABILITY REPORT FOR 2023

This report summarizes electric service reliability for customers within the City of Bellevue for calendar year 2023. For the 19th consecutive year, service reliability as measured by SAIDI & SAIFI for Bellevue customers was well above that experienced by all PSE customers in the aggregate. Of the 99 distribution circuits serving Bellevue customers in 2023, 80 circuits had reliability numbers better than the system wide performance (26 circuits experienced no unplanned outages). 19 circuits had SAIDI and/or SAIFI figures that exceeded 2023 system wide performance values.

### SYSTEM AVERAGE INTERRUPTION DURATION INDEX (SAIDI) SYSTEM AVERAGE INTERRUPTION FREQUENCY INDEX (SAIFI) FIVE YEAR HISTORY

PSE analyzes and reports on the performance of its distribution circuits using two standard benchmarks of the electric utility industry, SAIDI and SAIFI.

	SAIDI		SAIFI	
	BELLEVUE	PSE	BELLEVUE	PSE
<b>2019</b>	102.7	136.0	0.79	0.98
<b>2020</b>	93.0	165.0	0.92	1.24
<b>2021</b>	111.0	207.0	0.65	1.35
<b>2022</b>	58.2	181.0	0.37	1.06
<b>2023</b>	98.9	167.0	0.63	1.09

SAIDI figures in minutes per customer calculated using the IEEE 1366 method

SAIFI figures in outage events per customer

**SAIDI<sub>IEEE</sub>:** The System Average Interruption Duration Index is a measure of how long the average customer is out of service during the year, and is determined as:

$$\frac{\text{Sum of the customer outage minutes}}{\text{Total number of customers served}}$$

*SAIDI figures are single year figures excluding outages that exceed the annual adjusted Major Event Day Threshold*

Some customers will experience more outage minutes than the average and some fewer.

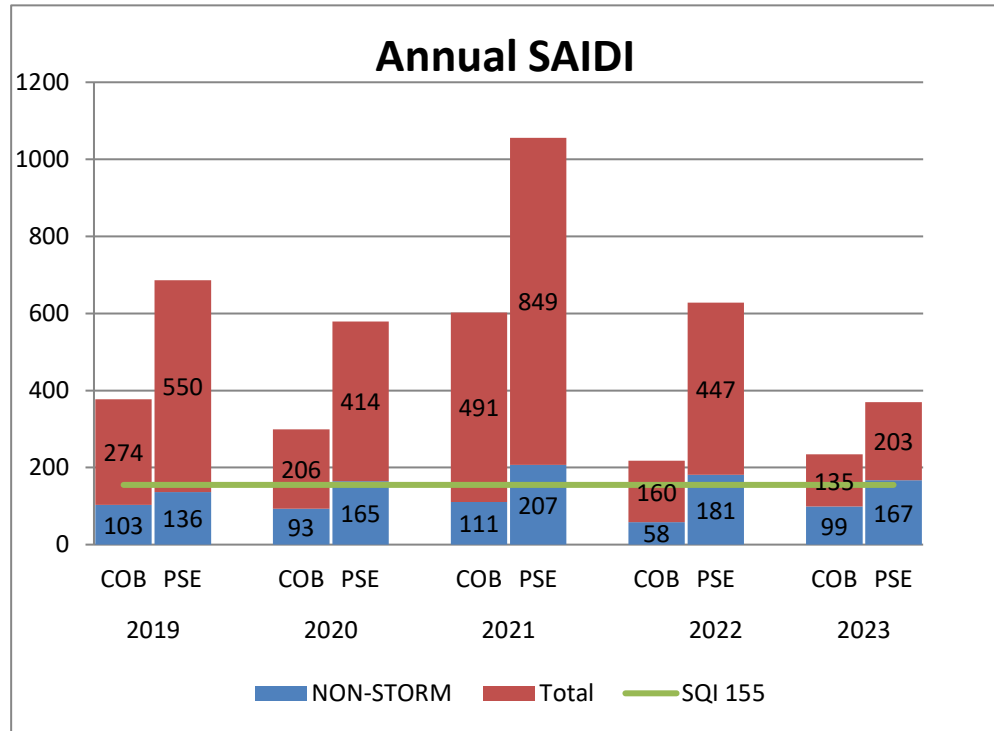
**SAIFI:** The System Average Interruption Frequency Index is a measure of how often the average customer in an area is out of service during a year, and is determined as:

$$\frac{\text{Sum of the number of customers affected by each outage}}{\text{Total number of customers served}}$$

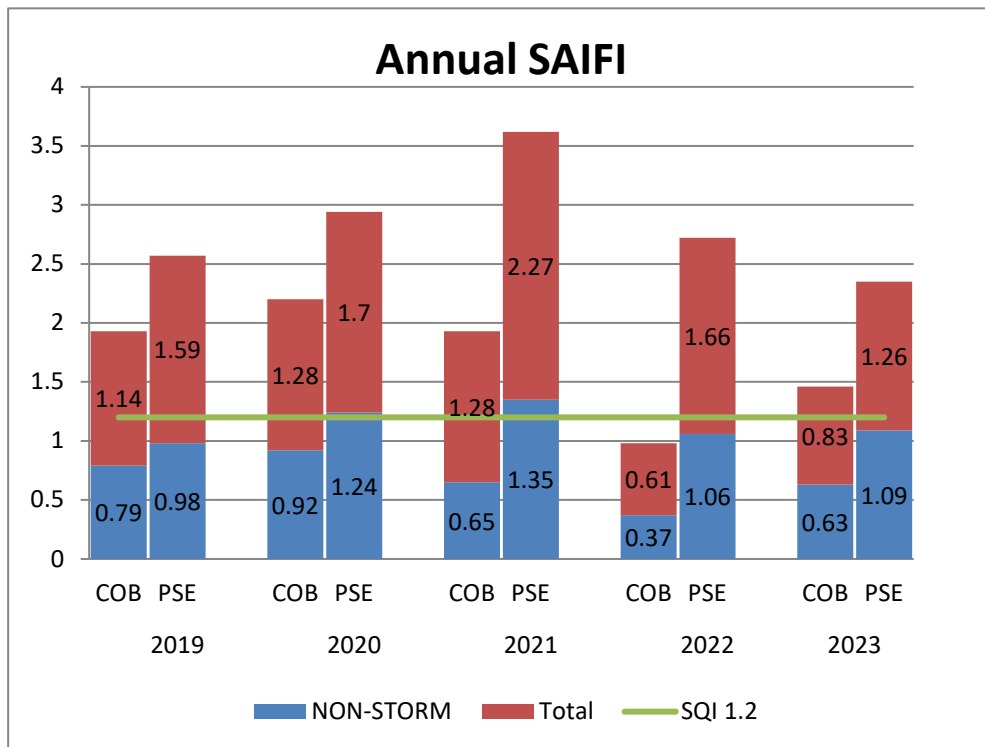
*SAIFI figures are single year figures excluding outages that exceed the annual adjusted Major Event Day Threshold*

Some customers will experience more outages than the average and some fewer.

**SYSTEM AVERAGE INTERRUPTION DURATION INDEX (SAIDI)  
SYSTEM AVERAGE INTERRUPTION FREQUENCY INDEX (SAIFI)  
FIVE YEAR HISTORY**



Values in minutes for all years calculated using IEEE 1366 method



Values in outage events for all years

**2023 PERFORMANCE FOR CIRCUITS SERVING BELLEVUE  
EXCLUDING STORM OUTAGES**

CIRCUIT	CUSTOMERS (METERS)	UNPLANNED OUTAGES <sup>1</sup>	OUTAGE MINUTES <sup>1</sup>	SAIDI <sup>2</sup>	SAIFI <sup>2</sup>
	<i>2023 PSE Companywide performance figures</i>			167	1.09
ARD-11	231	1	2,182	10.59	0.01
ARD-13	861	1	4,622	6.53	0.02
ARD-14	241	2	2,830	40.00	0.32
ARD-15	1,782	9	25,588	19.68	0.24
ARD-43	1,066	0	0	0.00	0.00
BTR-14	1,132	4	67,863	82.63	0.61
BTR-21	1,137	7	115,706	101.76	0.60
BTR-22	687	10	122,112	194.27	0.75
BTR-23	642	0	0	0.00	0.00
CEN-11	28	0	0	0.00	0.00
CEN-12	309	0	0	0.00	0.00
CEN-13	471	0	0	0.00	0.00
CEN-14	12	0	0	0.00	0.00
CEN-22	549	0	0	0.00	0.00
CEN-25	966	1	705	0.97	0.00
CLY-22	348	0	0	0.00	0.00
CLY-23	541	10	38,135	74.14	0.41
CLY-25	1,693	2	378	1.24	0.02
CLY-26	1,352	2	4,811	40.58	0.26
CLY-27	796	5	74,369	93.43	0.47
COL-22	2	0	0	0.00	0.00
COL-23	70	1	387	21.67	0.07
COL-24	20	1	1,927	101.60	0.30
COL-25	241	3	22,016	0.00	0.00
COL-26	1,994	21	373,257	216.67	1.57
EGT-11	1,248	3	893	0.72	0.00
EGT-12	1,801	8	24,735	13.73	0.09
EGT-13	7	0	0	0.00	0.00
EGT-15	268	2	6,468	24.13	0.17
EGT-16	552	4	6,070	25.02	0.15
EGT-25	1,233	14	111,630	90.92	1.72
EGT-26	27	1	405	0.00	0.00
EGT-27	576	7	69,587	147.77	0.32
EGT-28	1,775	18	204,915	126.66	0.42
EVE-23	2,975	19	521,930	176.78	1.11
FAC-12	1,271	16	227,565	180.35	1.41
FAC-13	521	2	77,760	220.42	1.44
FAC-14	475	0	0	0.00	0.00
FAC-21	97	0	0	0.00	0.00
FAC-23	227	2	445	6.74	0.04
FAC-24	85	3	20,500	241.18	0.58
FAC-25	1,493	9	327,544	220.86	1.62
GOO-13	2,264	5	38,817	18.41	0.16
HAZ-12	3,345	13	33,750	18.46	0.15
HAZ-13	1,258	17	340,487	274.40	2.13
HOU-23	1,318	12	228,193	173.14	1.76
HOU-25	536	6	53,252	103.38	0.74
KWH-22	1,252	12	153,281	122.43	1.26
KWH-23	921	17	109,072	118.43	0.49
KWH-25	1,666	37	193,309	132.14	0.83
KWH-26	374	6	7,914	25.81	0.17
LHL-22	1,020	7	74,311	73.18	0.28
LHL-23	1,379	1	15,581	11.30	0.08
LHL-25	2,519	9	137,850	54.72	0.10
LHL-26	550	6	41,580	76.72	0.23

CIRCUIT	CUSTOMERS (METERS)	UNPLANNED OUTAGES <sup>1</sup>	OUTAGE MINUTES <sup>1</sup>	SAIDI <sup>2</sup>	SAIFI <sup>2</sup>
LOC-20	11	0	0	0.00	0.00
LOC-22	2,820	2	19,364	59.47	0.21
LOC-23	1,737	3	22,452	12.93	0.02
LOC-24	46	0	0	0.00	0.00
LOC-25	153	0	0	0.00	0.00
LOC-32	230	0	0	0.00	0.00
LOC-33	292	1	34	31.73	0.16
LOC-34	411	0	0	7.96	0.02 <sup>5</sup>
LOC-35	21	0	0	0.00	0.00
MED-35	189	2	169	4.07	0.04
MED-36	680	6	10,113	21.13	0.09
MLK-12	429	4	59,316	140.38	1.16 <sup>3</sup>
MLK-13	1,441	9	231,385	162.96	0.66 <sup>3</sup>
MLK-15	1,625	6	234,679	154.24	0.36 <sup>3</sup>
MLK-16	1,607	9	34,866	25.30	0.13 <sup>3</sup>
NOB-10	3	0	0	0.00	0.00
NOB-11	63	1	7,687	122.02	0.40
NOB-12	547	2	84,337	0.00	0.00
NOB-13	14	1	653	0.00	0.00
NOB-14	1,028	3	160,875	157.82	1.05
NOB-21	4	1	497	0.00	0.00
NOB-22	146	4	46,091	324.80	1.75
NOB-23	965	1	42,661	44.21	0.78
NOB-24	1,013	12	299,674	295.83	2.24
NRU-14	18	1	6,543	0.00	0.00
NRU-23	722	7	40,919	77.53	0.48
NRU-25	884	6	3,093	4.64	0.02
NRU-26	788	0	0	70.66	0.08 <sup>5</sup>
NRU-27	572	13	37,991	73.85	0.28
OVE-12	588	7	22,552	40.03	0.34
OVE-15	753	19	21,596	31.20	0.14
PHA-13	1,053	13	7,614	10.13	0.12
PHA-15	179	3	988	5.52	0.11
PHA-16	2,083	24	72,426	40.29	0.15
PHA-17	707	8	60,549	116.98	0.43
ROS-17	1,230	4	68,321	55.55	0.95
SBE-22	427	2	162,719	381.07	2.00
SBE-23	91	2	21,318	235.28	1.88
SBE-25	649	6	9,263	49.23	0.21
SBE-26	1,872	25	90,267	55.60	0.28
SOM-13	2,232	18	109,735	58.28	0.40
SOM-15	1,742	17	56,442	32.40	0.27
SOM-16	2,600	24	1,877,861	722.51	4.68
SOM-17	1,753	14	116,718	100.68	0.49
Scheduled Outages		166	755,826		
Unscheduled Outages		616	7,926,501		
Totals	86,622	782	8,682,327		

Notes

- 1 Figures exclude Major Event Day and Major Storm outages.
- 2 SAIDI & SAIFI are 2023 single year figures calculated using the IEEE 1366
- 3 Includes one circuit outage resulting from substation bank outage.
- 4 Includes one circuit outage resulting from transmission line outage.
- 5 SAIDI & SAIFI figures greater than zero reflect inclusion of scheduled outages (including customer requested outages).

**2023 OUTAGES FOR CIRCUITS SERVING BELLEVUE**  
**EXCLUDING STORM OUTAGES**

**BY CAUSE**

CAUSE CODE	CAUSE DESCRIPTION	OUTAGES		OUTAGE MINUTES	
		COUNT	PERCENT	COUNT	PERCENT
AC	ACCIDENT	6	0.7%	146,374	1.7%
BA	BIRD OR ANIMAL	71	8.8%	120,491	1.4%
CE	CUSTOMER EQUIPMENT	5	0.6%	20,906	0.2%
CP	CAR/EQUIP ACCIDENT	11	1.4%	230,116	2.6%
DU	DIG UP UNDERGROUND	7	0.9%	12,136	0.1%
EF	EQUIPMENT FAILURE	402	49.9%	2,906,505	33.4%
FI	FAULTY INSTALLATION	1	0.1%	161	0.0%
LI	LIGHTNING	3	0.4%	9,968	0.1%
OE	OUTAGE WHILE WORKING	1	0.1%	34	0.0%
SO	SCHEDULED OUTAGE	170	21.1%	781,954	9.0%
TO	TREE - ON RIGHT OF WAY	1	0.1%	655	0.0%
TV	TREE - RIGHT OF WAY UNKNOWN	101	12.5%	4,346,747	49.9%
UN	UNKNOWN CAUSE	25	3.1%	133,367	1.5%
(blank)	BLANK	1	0.1%	515	0.0%
Totals		805	100%	8,709,929	100%

**BY EQUIPMENT**

EQUIP CODE	EQUIPMENT DESCRIPTION	OUTAGES		OUTAGE MINUTES	
		COUNT	PERCENT	COUNT	PERCENT
ACE	ALL CUSTOMER EQUIPMENT	29	3.6%	376,063	4.3%
FSV	FUSES/SAVER	1	0.1%	890	0.0%
OAR	OVERHEAD ARRESTER	3	0.4%	18,179	0.2%
OCN	OVERHEAD SECONDARY CONNECTOR	12	1.5%	2,998	0.0%
OCO	OVERHEAD CONDUCTOR	51	6.3%	2,353,435	27.0%
OCR	OVERHEAD CROSSARM	9	1.1%	1,013,292	11.6%
OFC	OVERHEAD CUT-OUT	5	0.6%	5,709	0.1%
OFU	OVERHEAD LINE FUSE / FUSE LINK	59	7.3%	445,586	5.1%
OIN	OVERHEAD INSULATOR	6	0.7%	215,084	2.5%
OJU	OVERHEAD JUMPER WIRE	2	0.2%	324,213	3.7%
OMP	OVERHEAD METER POINT	2	0.2%	220	0.0%
OPI	OVERHEAD INSULATOR PIN	2	0.2%	3,507	0.0%
OPO	OVERHEAD POLE	55	6.8%	536,434	6.2%
OSV	OVERHEAD SERVICE	31	3.9%	36,947	0.4%
OSW	OVERHEAD SWITCH	14	1.7%	45,504	0.5%
OTF	OVERHEAD TRANSFORMER FUSE	70	8.7%	44,164	0.5%
OTR	OVERHEAD TRANSFORMER	40	5.0%	79,261	0.9%
PTF	PADMOUNT TRANSFORMER FUSE	1	0.1%	327	0.0%
SCB	POWER CIRCUIT BREAKER	3	0.4%	477,486	5.5%
UEL	UNDERGROUND ELBOW	30	3.7%	209,226	2.4%
UFJ	UNDERGROUND J-BOX	11	1.4%	147,455	1.7%
UGF	UNDERGROUND SUBMERSIBLE FUSE	6	0.7%	34,502	0.4%
UHH	UNDERGROUND HANDHOLE - SECONDARY	27	3.4%	7,053	0.1%
UMP	UNDERGROUND METER POINT	3	0.4%	261	0.0%
UOT	UNDERGROUND OUTDOOR TERMINATION	20	2.5%	153,895	1.8%
UPC	UNDERGROUND PRIMARY CABLE	103	12.8%	1,392,824	16.0%
UPS	UNDERGROUND PADMOUNT SWITCH	11	1.4%	187,897	2.2%
UPT	UNDERGROUND PADMOUNT TRANSFORMER	31	3.9%	192,404	2.2%
USC	UNDERGROUND SECONDARY CABLE	7	0.9%	3,432	0.0%
USE	UNDERGROUND SECONDARY CONNECTOR	1	0.1%	701	0.0%
USV	UNDERGROUND SERVICE	91	11.3%	109,054	1.3%
UTC	UNDERGROUND TERMINAL FUSE	3	0.4%	7,578	0.1%
UTF	UNDERGROUND TRANSFORMER FUSE	1	0.1%	10	0.0%
UTR	UNDERGROUND TRANSFORMER	41	5.1%	207,252	2.4%
(blank)	BLANK	24	3.0%	77,086	0.9%
Totals		805	100%	8,709,929	100%

CIRCUITS THAT EXCEED 2023 PSE SYSTEM SAIDI AND/OR SAIFI			Notes: SAIDI figures reflect all non-med, scheduled & unscheduled SAIFI figures reflect all non-med, scheduled & unscheduled		
SQI: SAIDI = 155 SAIFI = 1.20 PSE: SAIDI = 167 SAIFI = 1.09 BELLEVUE: SAIDI = 99 SAIFI = 0.63					
CIRCUIT	SAIDI	SAIFI	2023 Events Comments	Actions & Projects Completed in 2023	Planned Actions & Projects
<b>Circuits with planned actions or investigations</b>					
SOM-16	722.51	4.68	Three tree/vegations related outage events contributed 534.38 to SAIDI and 2.52 to SAIFI. One equipment failure (OH splice) contributed 115.38 to SAIDI and 1.0 to SAIFI. One car/equipment (PM Switch) accident contributed 25.36 to SAIDI and 0.88 to SAIFI.	Tree/ vegetation were removed and overhead conductors were repaired. The OH splice was replaced. And the PM switch was replaced.	A distribution automation scheme is currently in engineering. A distribution automation scheme will help isolate faults in the circuit and restore other power to other parts of the circuit. A cable replacement project is scheduled to go into construction in 2024. A fuse saver project is scheduled to be constructed in 2024 to help reduce the number of outages caused by temporary faults. Vegetation management last trimmed this distribution circuit in 2021, with 1,529 trees being trimmed. The next scheduled trim will be in 2024.
SBE-22	381.07	2.00	two outage events involving trees in overhead distribution feeder contributed all SAIDI & SAIFI.	Tree/ Vegetation were removed and the distribution feeder was repaired.	Vegetation management last trimmed this distribution circuit in 2021, with 412 trees being trimmed. The next scheduled trim will be in 2024.
NOB-22	324.80	1.75	Two outage events involving failed underground cables contributed 270.99 to SAIDI and 1.66 to SAIFI.	Underground cables were repaired.	
NOB-24	295.83	2.24	One outage event involving a vault fire contributed 154.18 to SAIDI and 1.04 to SAIFI. One outage event of unknown cause (no problem found during patrol, but tree/vegetation was suspected as the cause) contributed 102.65 to SAIDI and 1.00 to SAIFI.	Vault fire at the substation was extinguished and repairs to the equipment were made.	A fuse saver project is scheduled to be constructed in 2024 to help reduce the number of outages caused by temporary faults. Vegetation management last trimmed this distribution circuit in 2021, with 315 trees being trimmed. The next scheduled trim will be in 2024.
HAZ-13	274.40	2.13	One outage event of unknown cause (no problem found during patrol, but tree/vegetation was suspected as the cause) contributed 143.82 to SAIDI and 1.0 to SAIFI. One outage event involving a crossarm failure on overhead distribution feeder contributed 92.60 to SAIDI and 1.00 to SAIFI.	Crossarms on the overhead distribution feeder were repaired.	Vegetation management last trim cycle started in 2022 but is still in the process of being completed. The next scheduled trim cycle will be in 2026.
FAC-24	241.18	0.58	Two car/equipment accidents (1 pole, 1 PM XFR) contributed to all SAIDI and SAIFI.	Equipment damaged by the car accidents were replaced.	
SBE-23	235.28	1.88	One outage event involving a failed underground switch contributed 135.55 to SAIDI and 1.00 to SAIFI. One outage event involving a tree in the overhead distribution feeder contributed 98.71 to SAIDI and 0.86 to SAIFI.	The failed underground switch was replaced. Tree was removed from the overhead distribution feeder and power restored.	Vegetation management last trimmed this distribution circuit in 2021, with 29 trees being trimmed. The next scheduled trim will be in 2025.
FAC-25	220.86	1.62	One outage event involving a tree in the overhead distribution feeder contributed 143.51 to SAIDI and 1.00 to SAIFI.	Tree was removed from the overhead distribution feeder and power restored.	Vegetation management last trimmed this distribution circuit in 2022, with 14 trees being trimmed. The next scheduled trim will be in 2026.
FAC-13	220.42	1.44	One outage event involving a tree in the overhead distribution feeder contributed 115.17 to SAIDI and 1.00 to SAIFI.	Tree was removed from the overhead distribution feeder and power restored.	Vegetation management last trim cycle started in 2022 but is still in the process of being completed. The next scheduled trim cycle will be in 2026.
COL-26	216.67	1.57	One outage event involving a tree limb on the overhead distribution feeder contributed 121.66 to SAIDI and 1.00 to SAIFI.	Tree limb was removed from the overhead distribution feeder and power restored. A cable replacement project was completed in 2023.	Vegetation management last trim cycle started in 2022 but is still in the process of being completed. The next scheduled trim cycle will be in 2026.
BTR-22	194.27	0.75	One outage event involving a tree limb on the overhead distribution feeder contributed 83.15 to SAIDI. One outage event involving a failed overhead distribution feeder pole contributed 55.36 to SAIDI.	Tree limb was removed from the overhead distribution feeder and power restored. The failed overhead distribution pole was replaced.	An overhead to underground conversion project is scheduled for construction in 2025. Vegetation management last trim cycle started in 2022 but is still in the process of being completed. The next scheduled trim cycle will be in 2026.
FAC-12	180.35	1.41	One outage event involving a failed underground feeder cable contributed 132.59 to SAIDI and 1.00 to SAIFI.	The failed underground cable was repaired. A cable replacement project was completed in 2023.	Vegetation management last trim cycle started in 2022 but is still in the process of being completed. The next scheduled trim cycle will be in 2026.
EVE-23	176.78	1.11	One outage event involving a tree in the overhead distribution feeder contributed 138.48 to SAIDI and 1.00 to SAIFI.	Tree was removed from the overhead distribution feeder and power restored. A cable replacement project was completed in 2023.	An installation of a new recloser is scheduled for construction in 2024. A recloser will help reduce the number of outages caused by temporary faults. Vegetation management last trim cycle started in 2022 but is still in the process of being completed. The next scheduled trim cycle will be in 2026.
HOU-23	173.14	1.76	One outage event involving a tree limb on the overhead distribution feeder contributed 77.09 to SAIDI and 1.02 to SAIFI. One outage event involving a transmission/distribution pole fire contributed 88.92 to SAIDI and 0.70 to SAIFI.	Tree was removed from the overhead distribution feeder and power restored. The transmission/ distribution pole fire was extinguished and the pole was replaced.	A fuse saver project is scheduled to be constructed in 2024 to help reduce the number of outages caused by temporary faults. Vegetation management last trim cycle started in 2022 but is still in the process of being completed. The next scheduled trim cycle will be in 2026.
MLK-13	162.96	0.66	Five outage events involving failed underground distribution equipment (three cables, one j-box and one transformer) contributed 140.84 to SAIDI.	The failed cables were repaired and the failed j-box and transformer were replaced.	Vegetation management last trim cycle started in 2023 but is still in the process of being completed. The next scheduled trim cycle will be in 2027.
NOB-14	157.82	1.05	One outage event involving a failed underground distribution cable contributed 154.18 to SAIDI.	The failed underground cable was repaired.	Vegetation management last trim cycle started in 2022 but is still in the process of being completed. The next scheduled trim cycle will be in 2026.
EGT-25	90.92	1.72	Two outage events involving a tree limb in overhead distribution feeder contributed 1.63 to SAIFI.	Tree limbs were removed from the overhead distribution feeder and power restored.	Vegetation management last trim cycle started in 2022 but is still in the process of being completed. The next scheduled trim cycle will be in 2026.
KWH-22	122.43	1.26	One outage event involving tree limbs in overhead distribution feeder contributed 1.00 to SAIFI.	Tree limbs were removed from the overhead distribution feeder and power restored.	Three fuse saver projects are scheduled to be constructed in 2024 to help reduce the number of outages caused by temporary faults. Vegetation management last trim cycle started in 2022 but is still in the process of being completed. The next scheduled trim cycle will be in 2026.
MLK-12	140.38	1.16	One outage event involving a tree limb on the overhead distribution feeder contributed 1.0 to SAIFI.	Tree limb was removed from the overhead distribution feeder and power restored.	Vegetation management last trim cycle started in 2023 but is still in the process of being completed. The next scheduled trim cycle will be in 2027.
<b>Circuits with completed 2023 actions - no additional corrective action needed</b>					
<b>Circuits for which no corrective action is needed</b>					

- Figure exceeded Service Quality Index
- Figure exceeded system wide average
- Figure exceeding system wide average and Service Quality Index
- SAIFI figure results in part from circuit outages due to 2021 transmission or substation outage



**CIRCUITS THAT EXCEEDED PSE SYSTEM SAIDI OR SAIFI  
2019 - 2023**

During the five year period 2019-2023 these circuits serving customers in Bellevue performed below PSE's average system wide performance in one or more years. Of these circuits...

- 30 (45%) circuits performed below system wide performance once in five years
- 26 (39%) circuits performed below system wide performance twice in five years
- 9 (13%) circuits performed below system wide performance in three of the five years
- 1 ( 1%) circuits performed below system wide performance in four of the five years
- 1 ( 1%) circuit performed below system wide performance in five of the five years

CIRCUIT	Repeat Counts					1	2	3	4	5
	2019	2020	2021	2022	2023					
ARD-13							2			
ARD-15							2			
BTR-21							2			
BTR-22										5
BTR-23							2			
CEN-11						1				
CEN-25						1				
CLY-22						1				
CLY-23						1				
CLY-25						1				
CLY-26						1				
CLY-27						1				
COL-23								3		
COL-25						1				
COL-26							2			
EGT-11								3		
EGT-12								3		
EGT-13						1				
EGT-15						1				
EGT-16						1				
EGT-25								3		
EGT-28						1				
EVE-23						1				
FAC-12						1				
FAC-13							2			
FAC-24						1				
FAC-25								3		
GOO-13							2			
GOO-21*								3		
HAZ-12						1				
HAZ-13							2			
HOU-23							2			
HOU-25							2			
KWH-22								3		
KWH-23							2			
KWH-25							2			
KWH-26						1				
LHL-22							2			
LHL-23						1				
LHL-25							2			
LOC-33							2			
LOC-35							2			

\*excluded from 2023  
(not in Bellevue)

CIRCUIT	2019	2020	2021	2022	2023	1	2	3	4	5
MED-35							2			
MED-36						1				
MLK-12						1				
MLK-13						1				
MLK-15							2			
NOB-11						1				
NOB-14						1				
NOB-21						1				
NOB-22						1				
NOB-24								3		
NRU-23							2			
NRU-25							2			
NRU-26							2			
NRU-27									4	
OVE-12						1				
OVE-15							2			
PHA-13						1				
PHA-16							2			
PHA-17						1				
ROS-17										
SBE-22							2			
SBE-23							2			
SBE-26						1				
SOM-15						1				
SOM-16								3		
SOM-17							2			
Totals	40	26	22	13	17	30	26	9	1	1
	2019	2020	2021	2022	2023	45%	39%	13%	1%	1%

## 2023 OUTAGES FOR CIRCUITS SERVING BELLEVUE

DATE	CIRCUIT	CAUSE	EQUIPMENT	CUSTOMERS OUT	CUSTOMER MINUTES	STORM CODE	Duration
<b>11/11/2023</b>	SOM-16	TV	OPO	2,600	1,073,759	MEJ	> 5 min
1/2/2023	SOM-17	EF	OJU	210	24,229	NON	> 5 min
1/3/2023	HAZ-13	EF	UPC	14	3,772	NON	> 5 min
1/3/2023	EVE-23	TO	OTR	3	655	NON	> 5 min
<b>10/26/2023</b>	NOB-24	EF	UPC	1,052	109,509	NON	> 5 min
1/3/2023	PHA-17	EF	OCN	2	581	NON	> 5 min
1/4/2023	BTR-22	TV	OCO	11	13,241	MEJ	> 5 min
1/4/2023	KWH-22	TV	OCO	109	16,617	MEJ	> 5 min
1/4/2023	PHA-13	TV	OHR	217	37,360	MEJ	> 5 min
1/4/2023	NRU-23	TV	SCB	602	6,685	MEJ	> 5 min
1/4/2023	NRU-25	TV	SCB	737	8,185	MEJ	> 5 min
1/4/2023	NRU-26	TV	SCB	657	7,296	MEJ	> 5 min
1/4/2023	NRU-27	TV	SCB	478	5,296	MEJ	> 5 min
1/4/2023	ARD-15	SO	UEL	13	2,794	MEJ	> 5 min
1/4/2023	PHA-13	TV	SCB	1,053	71,885	MEJ	> 5 min
1/4/2023	EGT-11	TV	SCB	308	21,026	MEJ	> 5 min
1/4/2023	KWH-25	TV	OFU	93	8,244	MEJ	> 5 min
<b>11/4/2023</b>	NOB-24	TV	OCO	1,013	103,985	NON	> 5 min
1/4/2023	ROS-17	TV	OFU	107	12,774	MEJ	> 5 min
1/4/2023	SBE-26	TV	OFU	44	4,895	MEJ	> 5 min
1/4/2023	PHA-13	EF	OTF	5	977	MEJ	> 5 min
1/4/2023	MLK-12	TV	SCS	-	30,959	MEJ	> 5 min
1/4/2023	MLK-13	TV	SCS	-	103,989	MEJ	> 5 min
1/4/2023	MLK-15	TV	SCS	-	117,268	MEJ	> 5 min
1/4/2023	MLK-16	TV	SCS	-	115,969	MEJ	> 5 min
1/4/2023	BTR-22	EF	OFC	13	9,450	MEJ	> 5 min
1/4/2023	MLK-12	TV	SCB	-	44,143	MEJ	> 5 min
1/4/2023	MLK-12	TV	SCS	425	27,800	MEJ	> 5 min
1/4/2023	MLK-13	TV	SCS	1,429	93,474	MEJ	> 5 min
1/4/2023	MLK-15	TV	SCS	1,611	105,379	MEJ	> 5 min
1/4/2023	MLK-16	TV	SCS	1,594	104,267	MEJ	> 5 min
1/4/2023	NRU-25	TV	SCB	848	85,973	MEJ	> 5 min
1/4/2023	MLK-13	TV	OCN	1	9	MEJ	> 5 min
1/5/2023	KWH-22	TV	OTF	28	13,765	NON	> 5 min
1/5/2023	EVE-23	TV	OFU	109	53,757	NON	> 5 min
1/5/2023	MLK-15	TV	OCO	257	197,467	NON	> 5 min
1/5/2023	EVE-23	TV	USV	1	204	NON	> 5 min
1/5/2023	PHA-17	TV	OFU	95	39,602	NON	> 5 min
1/5/2023	EVE-23	TV	OCO	3	1,348	NON	> 5 min
1/5/2023	COL-26	TV	OCO	1,994	242,592	NON	> 5 min
1/5/2023	MLK-12	TV	OCO	472	57,424	NON	> 5 min
1/5/2023	PHA-16	UN	OCO	6	590	NON	> 5 min
1/6/2023	KWH-22	EF	USV	1	159	NON	> 5 min
1/6/2023	MLK-15	TV	OFU	110	10,144	NON	> 5 min
1/6/2023	PHA-13	TV	OCO	66	2,171	NON	> 5 min
1/6/2023	EGT-11	EF	USV	1	126	NON	> 5 min

DATE	CIRCUIT	CAUSE	EQUIPMENT	CUSTOMERS CUSTOMER STORM			Duration
				OUT	MINUTES	CODE	
1/8/2023	ARD-15	EF	UHH	2	342	NON	> 5 min
1/8/2023	ARD-15	EF	UTR	2	815	NON	> 5 min
1/8/2023	NRU-23	EF	OSV	1	160	NON	> 5 min
1/9/2023	EGT-16	TV	OCO	576	31,104	MEJ	> 5 min
1/9/2023	EGT-28	TV	OCR	562	237,679	MEJ	> 5 min
1/9/2023	EGT-27	TV	OFU	5	6,854	MEJ	> 5 min
1/9/2023	SBE-22	TV	OCO	426	53,413	MEJ	> 5 min
1/9/2023	SOM-13	TV	OFU	4	3,863	MEJ	> 5 min
1/9/2023	BTR-22	TV	OFU	13	18,177	MEJ	> 5 min
1/9/2023	PHA-17	TV	OCO	203	56,641	MEJ	> 5 min
10/6/2023	NOB-22	EF	UPC	90	17,054	NON	> 5 min
1/9/2023	EGT-27	TV	OSV	1	388	MEJ	> 5 min
1/9/2023	HOU-25	TV	OCO	533	91,649	MEJ	> 5 min
1/9/2023	EGT-28	TV	OSV	8	1,384	MEJ	> 5 min
1/9/2023	MED-36	TV	OSV	1	753	MEJ	> 5 min
1/9/2023	SOM-13	TV	OCO	7	4,161	MEJ	> 5 min
1/10/2023	EGT-16	EF	OTR	1	693	NON	> 5 min
1/11/2023	OVE-12	UN	USV	1	458	NON	> 5 min
1/12/2023	BTR-22	TV	OTF	2	430	NON	> 5 min
1/12/2023	OVE-12	SO	OPO	5	985	NON	> 5 min
1/12/2023	HAZ-13	UN	OFU	12	1,571	NON	> 5 min
1/16/2023	LHL-26	SO	UHH	1	25	NON	> 5 min
1/16/2023	NRU-23	EF	UPC	68	11,578	NON	> 5 min
1/17/2023	EGT-27	SO	OFU	5	1,152	NON	> 5 min
1/17/2023	CLY-23	SO	OFU	10	1,974	NON	> 5 min
1/18/2023	ARD-15	SO	UEL	13	5,332	NON	> 5 min
1/18/2023	EVE-23	SO	OFU	29	2,813	NON	> 5 min
1/19/2023	COL-26	SO	UEL	35	(1)	NON	> 1 & <= 5 min
1/19/2023	MLK-15	SO	OFU	15	2,081	NON	> 5 min
1/19/2023	COL-26	SO	UEL	26	2,541	NON	> 5 min
1/19/2023	SBE-23	EF	UPS	91	12,335	NON	> 5 min
1/19/2023	FAC-13	EF	UPS	131	17,758	NON	> 5 min
1/19/2023	OVE-12	EF	OCR	22	1,332	NON	> 5 min
1/20/2023	KWH-22	EF	OTR	21	5,519	NON	> 5 min
1/23/2023	NOB-14	SO	UEL	1	65	NON	> 5 min
1/23/2023	SOM-13	EF	USV	1	105	NON	> 5 min
1/24/2023	COL-26	SO	UEL	17	2,096	NON	> 5 min
1/24/2023	COL-26	SO	UEL	10	180	NON	> 5 min
1/24/2023	PHA-16	EF	OFC	6	109	NON	> 5 min
1/25/2023	COL-26	SO	UEL	58	26,104	NON	No duration
1/25/2023	FAC-13	SO	OSW	48	16,864.00	NON	> 5 min
1/25/2023	FAC-13	SO	OSW	3	3,558.00	NON	> 5 min
1/25/2023	FAC-13	SO	OSW	48	16,656.00	NON	> 5 min
1/26/2023	OVE-15	UN	OFU	4	259	NON	> 5 min
1/26/2023	CLY-23	TV	OFU	45	3,105	NON	> 5 min
1/26/2023	NRU-23	EF	UFJ	188	17,333	NON	> 5 min
1/27/2023	COL-26	EF	OFU	79	13,022	NON	> 5 min
1/27/2023	KWH-25	EF	UEL	8	189	NON	> 5 min
1/27/2023	LHL-22	UN	OCR	149	34,697	NON	> 5 min

				CUSTOMERS	CUSTOMER	STORM	
DATE	CIRCUIT	CAUSE	EQUIPMENT	OUT	MINUTES	CODE	Duration
1/27/2023	KWH-23	TV	OCO	87	20,693	NON	> 5 min
1/27/2023	KWH-23	TV	OCO	87	4,830	NON	> 5 min
1/29/2023	KWH-23	EF	UPC	46	14,869	NON	> 5 min
1/29/2023	LHL-25	BA	OTF	7	854	NON	> 5 min
1/29/2023	NOB-21	EF	UTR	3	497	NON	> 5 min
1/30/2023	MLK-15	SO	UEL	1	515	NON	> 5 min
10/26/2023	NOB-24	EF	UPC	-	46,677	NON	> 5 min
2/2/2023	SOM-13	EF	OPI	51	648	NON	> 5 min
2/2/2023	SOM-13	EF	OPI	51	2,859	NON	> 5 min
2/2/2023	ROS-17	EF	OPO	3	1,006	NON	> 5 min
2/3/2023	SOM-13	SO	OPO	11	4,068	NON	> 5 min
2/3/2023	KWH-25	TV	OCO	415	22,361	NON	> 5 min
2/3/2023	KWH-22	EF	OCN	1	656	NON	> 5 min
2/4/2023	KWH-22	EF	OFU	-	1	NON	> 1 & <= 5 min
2/4/2023	KWH-25	TV	OTF	4	1,159	NON	> 5 min
2/5/2023	KWH-23	EF	USV	1	260	NON	> 5 min
2/6/2023	LOC-22	SO	OPO	30	10,225	NON	> 5 min
2/6/2023	NRU-27	EF	OPO	29	220	NON	> 5 min
2/6/2023	PHA-15	EF	OSV	1	236	NON	> 5 min
2/6/2023	CLY-23	EF	USV	2	113	NON	> 5 min
<b>8/13/2023</b>	SOM-16	TV	OCR	2,600	784,184	NON	> 5 min
2/6/2023	NRU-27	EF	OPO	29	12,269	NON	> 5 min
2/7/2023	NRU-27	EF	OTF	1	95	NON	> 5 min
2/8/2023	FAC-25	EF	UPC	8	308	NON	> 5 min
2/8/2023	EGT-16	EF	OSV	1	113	NON	> 5 min
2/9/2023	HOU-25	DU	UPC	2	644	NON	> 5 min
2/10/2023	LOC-22	SO	OPO	12	862	NON	> 5 min
2/11/2023	NRU-27	SO	UEL	2	494	NON	> 5 min
2/11/2023	KWH-25	EF	UTR	12	2,029	NON	> 5 min
2/11/2023	OVE-12	EF	UPC	129	18,200	NON	> 5 min
2/12/2023	KWH-23	EF	UTR	5	1,660	NON	> 5 min
2/13/2023	SOM-15	EF	UPT	3	995	NON	> 5 min
2/13/2023	SOM-13	AC	UPT	3	280	NON	> 5 min
2/14/2023	FAC-12	EF	USV	1	215	NON	> 5 min
2/14/2023	OVE-15	EF	OFU	8	674	NON	> 5 min
2/15/2023	EVE-23	EF	USV	1	127	NON	> 5 min
2/16/2023	HOU-25	SO	OPO	4	2,159	NON	> 5 min
9/22/2023	NOB-24	EF	UPC	6	21,229	NON	> 5 min
2/21/2023	FAC-12	EF	USV	1	436	NON	> 5 min
2/21/2023	PHA-16	AC	OSV	1	120	NON	> 5 min
2/22/2023	MED-36	EF	USV	1	748	NON	> 5 min
2/22/2023	EGT-15	TV	OSV	1	221	NON	> 5 min
2/22/2023	LHL-26	EF	UHH	1	23	NON	> 5 min
2/22/2023	LOC-33	OE	UFJ	1	34	NON	> 5 min
2/22/2023	LOC-33	SO	UFJ	24	746	NON	> 5 min
2/25/2023	NRU-27	SO	ACE	2	236	NON	> 5 min
2/25/2023	LOC-33	SO	UFJ	21	8,484	NON	> 5 min
2/25/2023	SOM-13	EF	UPC	7	1,960	NON	> 5 min
2/26/2023	SBE-22	TV	OCO	426	76,500	NON	> 5 min

DATE	CIRCUIT	CAUSE	EQUIPMENT	CUSTOMERS	CUSTOMER	STORM	Duration
				OUT	MINUTES	CODE	
3/1/2023	PHA-16	SO	OPO	20	9,375	NON	> 5 min
3/1/2023	PHA-16	SO	OPO	9	2,125	NON	> 5 min
3/2/2023	COL-25	TV	OCO	95	9,237	NON	> 5 min
3/2/2023	EVE-23	EF	USV	1	133	NON	> 5 min
3/2/2023	EGT-27	EF	UOT	4	382	NON	> 5 min
3/3/2023	NRU-23	SO	ACE	4	50	NON	> 5 min
3/3/2023	NRU-23	SO	ACE	1	14,212	NON	> 5 min
3/3/2023	SOM-13	SO	OPO	10	586	NON	> 5 min
3/3/2023	SOM-13	SO	OPO	2	237	NON	> 5 min
3/4/2023	SOM-17	EF	OTR	11	5,272	NON	> 5 min
3/4/2023	MED-36	EF	USC	2	377	NON	> 5 min
3/6/2023	HAZ-13	EF	USC	1	108	NON	> 5 min
3/7/2023	SBE-26	EF	OPO	48	4,510	NON	> 5 min
3/7/2023	NRU-23	EF	USV	37	67	NON	> 1 & <= 5 min
3/8/2023	HOU-25	DU	UPC	7	1,822	NON	> 5 min
3/9/2023	EGT-25	TV	OCO	37	1,696	NON	> 5 min
12/2/2023	SOM-16	TV	OCO	1,357	425,668	NON	> 5 min
3/11/2023	KWH-23	EF	USV	1	141	NON	> 5 min
3/12/2023	PHA-13	BA	OTF	3	281	NON	> 5 min
3/13/2023	KWH-26	EF	OCN	1	111	NON	> 5 min
3/13/2023	EGT-28	EF	UHH	7	793	NON	> 5 min
3/13/2023	COL-26	EF	OCO	4	384	NON	> 5 min
3/13/2023	KWH-23	EF	UHH	1	317	NON	> 5 min
3/14/2023	PHA-16	EF	OTR	8	961	NON	> 5 min
3/14/2023	SBE-25	EF	OTR	5	80	NON	> 5 min
3/14/2023	HAZ-13	CE	ACE	1	100	NON	> 5 min
3/15/2023	COL-26	UN	UOT	79	9,342	NON	> 5 min
3/16/2023	SOM-15	CE	UHH	10	254	NON	> 5 min
3/16/2023	FAC-12	EF	UHH	3	233	NON	> 5 min
3/16/2023	SOM-13	EF	UPC	7	781	NON	> 5 min
3/16/2023	NRU-27	EF	USV	1	6,960	NON	> 5 min
3/17/2023	KWH-23	EF	UPS	4	252	NON	> 5 min
3/17/2023	HAZ-13	EF	USC	1	182	NON	> 5 min
3/17/2023	SBE-26	EF	USE	1	701	NON	> 5 min
3/18/2023	NRU-27	EF	UEL	2	240	NON	> 5 min
3/19/2023	SOM-17	EF	OCN	1	104	NON	> 5 min
3/19/2023	COL-26	EF	UEL	37	6,057	NON	> 5 min
3/20/2023	EGT-28	EF	UPC	95	28,453	NON	> 5 min
3/21/2023	MLK-13	BA	OTF	11	976	NON	> 5 min
3/21/2023	OVE-15	UN	OFU	1	61	NON	> 5 min
3/21/2023	MLK-12	EF	USV	1	154	NON	> 5 min
3/21/2023	PHA-16	EF	OPO	28	4,258	NON	> 5 min
3/22/2023	LOC-23	EF	UPT	1	540	NON	> 5 min
3/22/2023	EGT-28	EF	USV	1	132	NON	> 5 min
1/9/2023	NOB-22	TV	OHR	83	16,236	MEJ	> 5 min
3/24/2023	SOM-13	SO	UEL	17	4,295	NON	> 5 min
3/24/2023	BTR-21	UN	OFU	6	998	NON	> 5 min
3/24/2023	PHA-13	TV	OTR	5	2,541	NON	> 5 min

DATE	CIRCUIT	CAUSE	EQUIPMENT	CUSTOMERS CUSTOMER STORM			Duration
				OUT	MINUTES	CODE	
3/24/2023	COL-26	EF	UTC	79	6,598	NON	> 5 min
3/28/2023	COL-26	EF	USV	1	112	NON	> 5 min
3/28/2023	NRU-27	UN	UHH	1	137	NON	> 5 min
3/28/2023	KWH-25	EF	USV	1	695	NON	> 5 min
3/29/2023	CLY-26	SO	OFU	23	4,085	NON	> 5 min
3/29/2023	EGT-25	EF	OTF	7	115	NON	> 5 min
3/30/2023	SOM-17	EF	USV	1	268	NON	> 5 min
3/30/2023	NRU-23	EF	UHH	3	65	NON	> 5 min
4/2/2023	LHL-22	UN	OTR	3	952	NON	> 5 min
4/2/2023	MED-35	EF	OSV	1	82	NON	> 5 min
4/2/2023	COL-26	EF	UTR	79	10,370	NON	> 5 min
4/2/2023	MLK-15	EF	UPT	39	9,486	NON	> 5 min
4/3/2023	EGT-28	EF	UFJ	95	30,976	NON	> 5 min
4/3/2023	HAZ-12	BA	OTR	6	357	NON	> 5 min
4/3/2023	SOM-15	EF	OSV	1	162	NON	> 5 min
4/4/2023	SBE-25	SO	ACE	23	11,354	NON	> 5 min
4/4/2023	KWH-25	EF	UPC	9	534	NON	> 5 min
4/5/2023	SBE-25	SO	ACE	23	11,331	NON	> 5 min
4/8/2023	SBE-26	EF	USV	1	332	NON	> 5 min
4/8/2023	HAZ-12	EF	USV	1	385	NON	> 5 min
4/12/2023	CLY-26	SO	OFU	11	2,744	NON	> 5 min
4/13/2023	CLY-26	SO	OFU	49	11,593	NON	> 5 min
4/13/2023	EGT-28	TV	OCO	17	1,237	NON	> 5 min
4/13/2023	ARD-15	SO	UEL	19	4,051	NON	> 5 min
4/13/2023	FAC-12	EF	OTR	5	376	NON	> 5 min
4/13/2023	ARD-14	SO		1	345	NON	> 5 min
4/14/2023	SOM-17	EF	UPT	5	1,004	NON	> 5 min
4/14/2023	CLY-23	BA	OTF	2	136	NON	> 5 min
4/14/2023	COL-26	EF	UPT	9	625	NON	> 5 min
4/14/2023	FAC-23	SO		2	829	NON	> 5 min
4/15/2023	ARD-14	SO		9	132	NON	> 5 min
4/15/2023	ARD-14	SO		9	483	NON	> 5 min
1/2/2023	SOM-16	EF	OJU	2,600	299,984	NON	> 5 min
4/15/2023	EGT-25	BA	OTF	3	183	NON	> 5 min
4/16/2023	NOB-10	SO	UTC	2	702	NON	> 5 min
4/16/2023	MLK-13	EF	UPC	91	25,877	NON	> 5 min
4/17/2023	KWH-25	EF	USV	1	222	NON	> 5 min
4/17/2023	CLY-26	SO	OFU	4	881	NON	> 5 min
4/17/2023	FAC-12	EF	USV	1	853	NON	> 5 min
4/17/2023	SOM-13	SO	UEL	7	767	NON	> 5 min
4/17/2023	CLY-26	SO	OFU	12	2,251	NON	> 5 min
4/17/2023	MLK-16	EF	USV	1	541	NON	> 5 min
4/17/2023	LHL-26	EF	OTR	13	2,866	NON	> 5 min
4/18/2023	KWH-25	EF	USV	1	178	NON	> 5 min
4/18/2023	CLY-26	SO	OFU	75	16,376	NON	> 5 min
4/18/2023	PHA-13	SO	PTF	4	327	NON	> 5 min
4/18/2023	FAC-25	EF	OTF	2	83	NON	> 5 min
4/18/2023	CLY-26	TV	OTF	6	375	NON	> 5 min
4/18/2023	KWH-25	AC	UPC	8	1,028	NON	> 5 min

DATE	CIRCUIT	CAUSE	EQUIPMENT	CUSTOMERS			STORM	Duration
				OUT	CUSTOMER	MINUTES		
4/19/2023	KWH-25	EF	UPC	24	3,802	NON	> 5 min	
4/20/2023	MLK-16	EF	UEL	21	866	NON	> 5 min	
4/20/2023	CLY-26	SO	OFU	14	1,843	NON	> 5 min	
4/21/2023	CLY-26	SO	OFU	5	1,338	NON	> 5 min	
4/21/2023	ROS-17	EF	UTR	8	1,937	NON	> 5 min	
4/24/2023	MLK-16	EF	UTR	6	1,155	NON	> 5 min	
4/24/2023	MLK-16	EF	UTR	6	5	NON	<= 1 min	
4/24/2023	KWH-25	BA	OTR	39	3,592	NON	> 5 min	
4/24/2023	SOM-13	SO	OFU	19	2,053	NON	> 5 min	
4/26/2023	SOM-17	EF	OSV	1	102	NON	> 5 min	
4/27/2023	ARD-15	EF	UTR	21	2,255	NON	> 5 min	
4/27/2023	BTR-14	EF	UFJ	14	2,480	NON	> 5 min	
4/28/2023	NRU-27	EF	UFJ	2	1,030	NON	> 5 min	
4/28/2023	BTR-14	EF	UFJ	2	-	NON	No duration	
4/28/2023	SBE-26	SO	OTF	2	297	NON	> 5 min	
4/28/2023	BTR-14	EF	UFJ	460	29,777	NON	> 5 min	
4/28/2023	MLK-13	EF	UEL	182	42,797	NON	> 5 min	
4/28/2023	MLK-13	EF	UEL	117	33,817	NON	> 5 min	
4/30/2023	KWH-25	EF	OMP	1	112	NON	> 5 min	
5/1/2023	EVE-23	EF	USV	1	140	NON	> 5 min	
5/2/2023	CLY-26	SO	OFU	23	5,479	NON	> 5 min	
5/3/2023	CLY-26	SO	OFU	4	364	NON	> 5 min	
5/4/2023	ARD-14	SO	ACE	2	151	NON	> 5 min	
5/4/2023	MED-36	EF	USV	1	148	NON	> 5 min	
5/4/2023	ARD-15	EF	USV	1	20	NON	> 5 min	
5/4/2023	ARD-15	EF	USV	2	1,725	NON	> 5 min	
5/5/2023	MLK-16	EF	UPT	10	2,478	NON	> 5 min	
5/5/2023	OVE-15	SO	OPO	6	1,244	NON	> 5 min	
5/5/2023	EVE-23	EF	USV	1	296	NON	> 5 min	
5/5/2023	LHL-26	EF	USV	1	531	NON	> 5 min	
5/5/2023	SOM-17	SO	OAR	11	3,197	NON	> 5 min	
5/7/2023	SOM-13	EF	USV	1	580	NON	> 5 min	
5/8/2023	PHA-13	BA	OTF	1	74	NON	> 5 min	
5/8/2023	KWH-23	DU	USV	6	1,849	NON	> 5 min	
5/8/2023	COL-26	SO	UPT	25	360	NON	> 5 min	
5/8/2023	NRU-25	EF	USV	1	1,103	NON	> 5 min	
5/9/2023	SOM-17	BA	OFU	49	4,794	NON	> 5 min	
5/10/2023	NOB-23	EF	UEL	749	42,661	NON	> 5 min	
5/10/2023	MLK-15	SO	UTR	15	2,888	NON	> 5 min	
5/10/2023	OVE-15	EF	OFU	182	634	NON	> 1 & <= 5 min	
5/10/2023	OVE-15	EF	OFU	26	9,100	NON	> 5 min	
5/11/2023	CEN-25	SO		2	230	NON	> 5 min	
5/12/2023	NRU-25	EF	USV	1	699	NON	> 5 min	
5/12/2023	EGT-27	BA	OTF	4	209	NON	> 5 min	
5/13/2023	EVE-23	BA	OPO	1	112	NON	> 5 min	
5/14/2023	EGT-28	EF	OTF	6	226	NON	> 5 min	
5/14/2023	KWH-22	EF	OTR	77	3,928	NON	> 5 min	
5/14/2023	KWH-22	EF	OTR	4	1,560	NON	> 5 min	
5/14/2023	KWH-22	EF	OTR	3	2	NON	<= 1 min	



DATE	CIRCUIT	CAUSE	EQUIPMENT	CUSTOMERS CUSTOMER STORM			Duration
				OUT	MINUTES	CODE	
5/15/2023	KWH-23	BA	OTF	8	974	NON	> 5 min
5/15/2023	COL-23	EF	UPT	1	387	NON	> 5 min
5/15/2023	LHL-22	TV	OCO	117	10,140	NON	> 5 min
5/16/2023	KWH-25	EF	UHH	2	86	NON	> 5 min
5/16/2023	CLY-25	EF	UMP	1	110	NON	> 5 min
5/16/2023	CLY-23	EF	UPC	16	4,400	NON	> 5 min
5/16/2023	ARD-14	SO		1	126	NON	> 5 min
5/17/2023	PHA-13	SO	OPO	8	1,812	NON	> 5 min
5/17/2023	MED-36	EF	USC	4	2,099	NON	> 5 min
5/17/2023	PHA-16	EF	OSV	4	641	NON	> 5 min
5/17/2023	ARD-14	SO		22	3,722	NON	> 5 min
5/18/2023	COL-26	BA	OTF	3	417	NON	> 5 min
5/18/2023	KWH-25	EF	OFU	20	1,649	NON	> 5 min
5/19/2023	LHL-25	EF	UMP	1	79	NON	> 5 min
5/20/2023	LOC-22	SO	ACE	175	92,506	NON	> 5 min
5/21/2023	EGT-12	EF	UPC	19	5,395	NON	> 5 min
5/21/2023	NRU-23	BA	OTF	2	140	NON	> 5 min
5/21/2023	HAZ-13	EF	USV	1	193	NON	> 5 min
5/22/2023	HAZ-12	EF	OCN	1	80	NON	> 5 min
5/23/2023	CEN-25	EF	UTR	1	705	NON	> 5 min
5/24/2023	NRU-27	SO	ACE	11	1,980	NON	> 5 min
6/29/2023	SOM-16	TV	OCO	2,600	179,530	NON	> 5 min
5/24/2023	GOO-13	SO	UPC	26	2,779	NON	> 5 min
5/25/2023	SBE-26	SO	OPO	23	6,828	NON	> 5 min
5/25/2023	CLY-27	EF	UFJ	322	53,017	NON	> 5 min
5/25/2023	NRU-26	SO	USV	52	11,351	NON	> 5 min
5/27/2023	EVE-23	BA	OTF	5	594	NON	> 5 min
5/27/2023	KWH-26	BA	OTF	7	500	NON	> 5 min
5/28/2023	PHA-13	BA	OTF	5	326	NON	> 5 min
5/29/2023	PHA-15	EF	OSV	1	164	NON	> 5 min
5/30/2023	FAC-12	SO	UTR	4	521	NON	> 5 min
5/30/2023	EGT-12	EF	UOT	19	1,691	NON	> 5 min
5/30/2023	FAC-12	EF	UHH	1	6	NON	> 5 min
5/30/2023	NRU-26	SO	USV	3	50	NON	> 5 min
5/31/2023	EGT-28	EF	UPC	15	3,711	NON	> 5 min
5/31/2023	EGT-26	EF	UTR	1	405	NON	> 5 min
5/31/2023	EGT-25	BA	OTF	3	303	NON	> 5 min
5/31/2023	EGT-25	BA	OPO	8	475	NON	> 5 min
6/1/2023	EGT-28	EF	UPC	4	1,503	NON	> 5 min
6/1/2023	ARD-11	EF	UPS	1	2,182	NON	> 5 min
6/2/2023	PHA-13	BA	OTF	3	347	NON	> 5 min
6/2/2023	HAZ-12	EF	USV	1	359	NON	> 5 min
6/3/2023	KWH-25	UN	UOT	214	56,093	NON	> 5 min
6/3/2023	KWH-25	UN	UOT	1	255	NON	> 5 min
6/3/2023	KWH-25	EF	UTR	195	10,202	NON	> 5 min
6/3/2023	PHA-17	SO	OPO	57	20,110	NON	> 5 min
6/3/2023	KWH-25	TV	OCO	14	4,226	NON	> 5 min
6/5/2023	NRU-27	BA	OTF	2	176	NON	> 5 min
6/5/2023	SBE-26	TV	OTF	3	165	NON	> 5 min

DATE	CIRCUIT	CAUSE	EQUIPMENT	CUSTOMERS	CUSTOMER	STORM	Duration
				OUT	MINUTES	CODE	
6/5/2023	SBE-26	TV	OFU	109	6,600	NON	> 5 min
6/6/2023	SBE-26	TV	OPO	109	34,072	NON	> 5 min
6/6/2023	SBE-26	TV	OPO	4	1,059	NON	> 5 min
6/6/2023	LOC-22	SO	UPC	4	931	NON	> 5 min
6/7/2023	ARD-13	SO	OSW	3	640	NON	> 5 min
6/7/2023	MLK-16	EF	UPC	59	9,921	NON	> 5 min
6/7/2023	KWH-26	BA	OFU	38	3,854	NON	> 5 min
6/7/2023	MLK-16	EF	UPC	2	87	NON	> 5 min
6/7/2023	NRU-27	CP	OFU	16	11,713	NON	> 5 min
6/7/2023	GOO-13	EF	USV	21	5,704	NON	> 5 min
6/8/2023	MLK-13	EF	UPC	182	50,193	NON	> 5 min
6/8/2023	MLK-16	EF	UPC	2	397	NON	> 5 min
6/8/2023	GOO-13	EF	USV	45	17	NON	<= 1 min
6/8/2023	HAZ-13	EF	UPC	5	1,183	NON	> 5 min
6/8/2023	MLK-13	EF	UPC	16	21	NON	> 1 & <= 5 min
6/8/2023	MLK-13	EF	UPC	116	25,082	NON	> 5 min
6/8/2023	FAC-25	SO	OPO	3	1,202	NON	> 5 min
6/8/2023	EGT-25			2	515	NON	> 5 min
6/8/2023	EGT-25	EF	USV	2	446	NON	> 5 min
6/9/2023	NRU-25	SO	OPO	4	1,012	NON	> 5 min
6/10/2023	HAZ-12	EF	UPC	66	11,314	NON	> 5 min
11/30/2023	SOM-16	CP	UPS	2,286	65,937	NON	> 5 min
6/11/2023	LHL-25	BA	OTF	6	987	NON	> 5 min
6/11/2023	HAZ-12	EF	UFJ	67	3,578	NON	> 5 min
6/14/2023	FAC-12	BA	OTF	3	136	NON	> 5 min
6/15/2023	NRU-27	EF	OAR	21	1,375	NON	> 5 min
6/15/2023	EGT-27	EF	OCN	1	156	NON	> 5 min
6/16/2023	MED-36	SO	UPC	11	3,400	NON	> 5 min
6/17/2023	FAC-12	EF	USV	1	94	NON	> 5 min
6/18/2023	PHA-16	BA	OTF	5	535	NON	> 5 min
8/8/2023	SOM-16	TV	OCO	50	22,554	NON	> 5 min
6/20/2023	EGT-28	EF	USV	1	149	NON	> 5 min
6/20/2023	OVE-15	EF	UPC	3	1,866	NON	> 5 min
6/20/2023	HOU-25	EF	OCR	1	49	NON	> 5 min
6/21/2023	COL-24	EF	UPT	3	1,927	NON	> 5 min
6/21/2023	PHA-17	SO	OTR	9	2,048	NON	> 5 min
6/22/2023	KWH-25	EF	UTR	16	6,345	NON	> 5 min
6/22/2023	COL-26	BA	OTF	3	311	NON	> 5 min
6/22/2023	FAC-12	SO	UTR	9	824	NON	> 5 min
6/22/2023	KWH-26	AC	OSV	1	143	NON	> 5 min
6/23/2023	PHA-16	EF	UTR	42	24,450	NON	> 5 min
6/23/2023	KWH-26	EF	OPO	3	986	NON	> 5 min
12/6/2023	HOU-23	TV	OPO	921	117,201	NON	> 5 min
6/23/2023	EVE-23	EF	UPT	1	56	NON	> 5 min
6/24/2023	SBE-26	BA	OTF	1	88	NON	> 5 min
6/26/2023	NRU-27	TV	OCO	20	2,502	NON	> 5 min
6/27/2023	KWH-26	SO	OSW	2	627	NON	> 5 min
6/27/2023	COL-23	SO	SCB	1	219	NON	> 5 min
5/24/2023	SOM-16	BA	OFU	102	18,970	NON	> 5 min

DATE	CIRCUIT	CAUSE	EQUIPMENT	CUSTOMERS CUSTOMER STORM			Duration
				OUT	MINUTES	CODE	
6/28/2023	KWH-26	SO	OSW	2	758	NON	> 5 min
9/10/2023	SOM-16	AC	OPO	23	16,461	NON	> 5 min
6/29/2023	SOM-17	TV	OCO	128	8,838	NON	> 5 min
6/29/2023	EGT-28	SO	UPT	65	14,563	NON	> 5 min
6/29/2023	EVE-23	EF	UHH	2	98	NON	> 5 min
6/29/2023	HAZ-12	EF	OPO	2	315	NON	> 5 min
6/29/2023	SBE-26	BA	OTF	1	128	NON	> 5 min
6/30/2023	HAZ-12	CP	OPO	1	248	NON	> 5 min
6/30/2023	COL-26	TV	OTF	1	317	NON	> 5 min
12/11/2023	SOM-16	BA		128	16,132	NON	> 5 min
7/1/2023	KWH-25	EF	UPC	6	1,598	NON	> 5 min
7/1/2023	NRU-25	EF	USC	1	112	NON	> 5 min
7/1/2023	SBE-26	TV	OTF	1	63	NON	> 5 min
7/3/2023	BTR-22	CE	OSV	1	992	NON	> 5 min
7/4/2023	MLK-13	EF	UPC	201	51,067	NON	> 5 min
7/4/2023	EGT-28	EF	UTR	7	4,051	NON	> 5 min
7/4/2023	OVE-15	EF	OPO	1	193	NON	> 5 min
7/4/2023	OVE-15	EF	UHH	2	927	NON	> 5 min
7/5/2023	PHA-16	EF	UPC	21	10,150	NON	> 5 min
7/5/2023	NRU-25	EF	USV	1	319	NON	> 5 min
7/7/2023	CLY-23	EF	OIN	46	2,710	NON	> 5 min
7/7/2023	CLY-23	EF	OIN	1	47	NON	> 5 min
7/7/2023	PHA-13	BA	UOT	2	149	NON	> 5 min
7/7/2023	SOM-16	EF	OAR	132	13,607	NON	> 5 min
7/8/2023	SBE-23	SO	ACE	1	56	NON	> 5 min
7/8/2023	SBE-23	SO	ACE	1	36	NON	> 5 min
7/8/2023	PHA-17	TV	OCO	80	7,540	NON	> 5 min
7/9/2023	NRU-23	BA	OFU	6	479	NON	> 5 min
7/10/2023	SOM-15	UN	OSW	11	17	NON	> 1 & <= 5 min
7/10/2023	SOM-15	UN	OSW	40	755	NON	> 5 min
7/10/2023	NRU-25	DU	USC	1	122	NON	> 5 min
7/10/2023	EGT-28	EF	UOT	54	33,460	NON	> 5 min
7/11/2023	MLK-15	EF	UTR	92	16,589	NON	> 5 min
7/11/2023	FAC-25	SO	OPO	3	993	NON	> 5 min
7/11/2023	LHL-25	BA	OTF	5	566	NON	> 5 min
7/11/2023	EGT-16	SO	OCO	8	1,693	NON	> 5 min
7/11/2023	KWH-25	TV	OTR	6	1,506	NON	> 5 min
4/15/2023	SOM-16	BA	OFU	84	7,966	NON	> 5 min
7/11/2023	COL-25	SO	UPC	1	321	NON	> 5 min
7/11/2023	COL-23	SO	UPC	3	911	NON	> 5 min
7/12/2023	NRU-27	SO		1	197	NON	> 5 min
7/12/2023	CLY-27	EF	OSV	1	170	NON	> 5 min
7/12/2023	FAC-12	BA	OTF	3	4	NON	> 1 & <= 5 min
7/13/2023	NRU-27	SO	USV	1	423	NON	> 5 min
7/13/2023	GOO-13	SO		3	75	NON	> 5 min
7/13/2023	NRU-23	DU	UPC	1	1	NON	<= 1 min
7/13/2023	PHA-13	BA	OFU	2	317	NON	> 5 min
7/13/2023	NRU-23	DU	UPC	3	11	NON	> 1 & <= 5 min
7/13/2023	FAC-25	EF	OPO	4	509	NON	> 5 min

DATE	CIRCUIT	CAUSE	EQUIPMENT	CUSTOMERS OUT	CUSTOMER MINUTES	STORM CODE	Duration
7/14/2023	FAC-25	EF	OPO	4	1,300	NON	> 5 min
7/14/2023	CLY-26	EF	OCR	80	4,436	NON	> 5 min
6/28/2023	SOM-16	DU	UPC	40	7,687	NON	> 5 min
7/15/2023	KWH-25	EF	UPC	31	16,396	NON	> 5 min
7/16/2023	BTR-22	TV	OFU	33	3,331	NON	> 5 min
7/16/2023	ARD-14	SO	USV	3	227	NON	> 5 min
7/16/2023	ARD-14	SO	USV	9	1,624	NON	> 5 min
7/16/2023	EVE-23	EF	UPC	115	26,403	NON	> 5 min
2/20/2023	NOB-24	EF	OFU	171	15,265	NON	> 5 min
6/30/2023	SOM-16	BA	UGF	84	7,115	NON	> 5 min
7/19/2023	KWH-23	EF	UPC	41	4,604	NON	> 5 min
7/19/2023	LHL-22	EF	OTR	2	611	NON	> 5 min
7/20/2023	NOB-13	SO		11	86	NON	> 5 min
7/20/2023	NOB-13	EF	UGF	3	653	NON	> 5 min
7/20/2023	NOB-14	EF	UPC	7	2,377	NON	> 5 min
7/20/2023	SOM-15	EF	UPT	5	433	NON	> 5 min
7/20/2023	SOM-16	TV	OCO	27	5,540	NON	> 5 min
7/21/2023	FAC-23	BA	UOT	2	167	NON	> 5 min
7/24/2023	KWH-22	EF	USV	1	608	NON	> 5 min
7/24/2023	SOM-15	EF	UPC	98	1,448	NON	> 5 min
7/24/2023	SOM-15	EF	UPC	64	918	NON	> 5 min
7/25/2023	OVE-15	EF	UOT	4	359	NON	> 5 min
7/25/2023	NRU-25	EF		1	1	NON	<= 1 min
7/25/2023	EVE-23	EF	USV	1	97	NON	> 5 min
7/26/2023	CLY-23	TV	UOT	47	11,558	NON	> 5 min
7/26/2023	SBE-26	SO	USV	5	904	NON	> 5 min
7/26/2023	COL-26	BA	OFU	13	1,237	NON	> 5 min
6/11/2023	SOM-16	TV	UOT	11	1,508	NON	> 5 min
7/26/2023	OVE-12	TV	OCO	37	972	NON	> 5 min
7/27/2023	COL-26	SO	USV	12	145	NON	> 5 min
7/27/2023	EGT-16	SO	OPO	43	6,049	NON	> 5 min
1/4/2023	NOB-24	TV	OFU	171	11,503	MEJ	> 5 min
7/28/2023	EGT-12	EF	UPC	56	7,566	NON	> 5 min
7/28/2023	ARD-11	SO	UPC	1	256	NON	> 5 min
7/28/2023	EGT-12	EF	UPT	5	510	NON	> 5 min
7/28/2023	ARD-11	SO	UPC	1	9	NON	> 5 min
7/28/2023	EGT-12	EF	UPT	4	163	NON	> 5 min
7/29/2023	PHA-15	TV	OCO	17	588	NON	> 5 min
7/29/2023	SOM-13	EF	UPS	630	88,960	NON	> 5 min
7/29/2023	GOO-13	EF	UPS	1	131	NON	> 5 min
7/29/2023	SOM-13	EF	UPS	1	160	NON	> 5 min
7/30/2023	EGT-12	EF	UPC	56	8,716	NON	> 5 min
7/30/2023	EGT-11	TV	UGF	3	144	NON	> 5 min
8/1/2023	HAZ-13	SO	OPO	18	4,708	NON	> 5 min
8/1/2023	LHL-25	AC	ACE	207	128,342	NON	> 5 min
8/1/2023	OVE-12	EF	USV	1	30	NON	> 5 min
10/9/2023	HOU-23	TV	OCO	1,339	101,607	NON	> 5 min
8/2/2023	FAC-12	SO	UPC	2	320	NON	> 5 min
8/2/2023	NRU-23	SO	UPT	5	437	NON	> 5 min

DATE	CIRCUIT	CAUSE	EQUIPMENT	CUSTOMERS OUT	CUSTOMER MINUTES	STORM CODE	Duration
8/3/2023	KWH-25	EF	UPC	6	2,862	NON	> 5 min
8/3/2023	KWH-23	EF	UPC	60	12,920	NON	> 5 min
8/3/2023	OVE-12	EF	UTR	4	1,169	NON	> 5 min
8/3/2023	MLK-16	EF	UPC	43	8,486	NON	> 5 min
8/4/2023	GOO-13	BA	OFU	100	9,968	NON	> 5 min
8/4/2023	SOM-13	SO	OPO	9	590	NON	> 5 min
8/6/2023	BTR-22	BA	OTF	53	4,234	NON	> 5 min
8/6/2023	LOC-23	EF	UTR	2	881	NON	> 5 min
8/7/2023	PHA-16	EF	USV	1	285	NON	> 5 min
8/7/2023	HAZ-13	TV	OCO	1,258	180,922	NON	> 5 min
8/7/2023	COL-25	EF	USV	1	383	NON	> 5 min
8/7/2023	NRU-27	BA	OTF	11	1,073	NON	> 5 min
8/7/2023	HAZ-13	EF	OCR	1,258	116,495	NON	> 5 min
8/8/2023	EVE-23	EF	UPC	39	25,568	NON	> 5 min
7/15/2023	SOM-16	BA	UOT	11	1,277	NON	> 5 min
8/8/2023	MED-36	EF	OTR	3	1,543	NON	> 5 min
8/9/2023	PHA-16	EF	OCN	1	103	NON	> 5 min
8/11/2023	BTR-22	EF	OTR	57	16,651	NON	> 5 min
8/11/2023	FAC-12	EF	USC	1	432	NON	> 5 min
8/11/2023	BTR-22	BA	OTR	4	1,105	NON	> 5 min
8/12/2023	KWH-22	BA	OFU	59	6,745	NON	> 5 min
8/12/2023	OVE-15	EF	UOT	4	299	NON	> 5 min
8/12/2023	CLY-27	TV	OCO	28	15,803	NON	> 5 min
8/13/2023	OVE-15	EF	UOT	4	181	NON	> 5 min
8/13/2023	SOM-15	EF	UPC	172	33,126	NON	> 5 min
8/13/2023	SOM-15	EF	UPC	11	1,608	NON	> 5 min
7/11/2023	SOM-16	BA	UOT	11	1,216	NON	> 5 min
<b>8/13/2023</b>	SOM-17	TV	OCR	212	63,941	NON	> 5 min
8/14/2023	KWH-25	BA	OTF	4	422	NON	> 5 min
8/14/2023	KWH-25	EF	OTR	4	70	NON	> 5 min
8/14/2023	KWH-25	EF	OTR	4	78	NON	> 5 min
8/14/2023	LHL-26	EF	OFU	99	37,935	NON	> 5 min
8/14/2023	KWH-22	EF	UPT	33	11,081	NON	> 5 min
8/14/2023	KWH-22	EF	UPT	95	3,055	NON	> 5 min
3/10/2023	SOM-16	EF	OTR	3	1,009	NON	> 5 min
8/15/2023	EGT-25	SO	UPT	4	469	NON	> 5 min
8/15/2023	SOM-15	EF	UHH	3	69	NON	> 5 min
8/15/2023	SOM-15	EF	UHH	2	28	NON	> 5 min
8/15/2023	NRU-14	SO	USV	1	9	NON	> 5 min
8/16/2023	NRU-25	EF	UPC	7	738	NON	> 5 min
8/18/2023	SOM-13	EF	OTR	2	615	NON	> 5 min
8/19/2023	NRU-26	SO	ACE	2	786	NON	> 5 min
<b>10/26/2023</b>	NOB-22	EF	UPC	152	15,783	NON	> 5 min
8/21/2023	HOU-23	EF	UPC	6	3,162	NON	> 5 min
12/21/2023	HOU-23	EF	UPC	22	2,282	NON	> 5 min
8/21/2023	MED-35	SO		5	601	NON	> 5 min
8/21/2023	SBE-26	EF	OTF	1	53	NON	> 5 min
8/21/2023	SOM-13	EF	UHH	4	65	NON	> 5 min
8/22/2023	FAC-23	EF	UTC	2	278	NON	> 5 min

DATE	CIRCUIT	CAUSE	EQUIPMENT	CUSTOMERS	CUSTOMER	STORM	Duration
				OUT	MINUTES	CODE	
8/22/2023	BTR-14	SO	ACE	25	15,404	NON	> 5 min
8/22/2023	ARD-15	CE	UTR	354	19,488	NON	> 5 min
8/22/2023	ARD-15	EF	UTR	1	450	NON	> 5 min
8/23/2023	SOM-17	EF	OTF	7	556	NON	> 5 min
8/23/2023	LHL-22	CP	OSV	6	27,576	NON	> 5 min
8/23/2023	SBE-26	BA	OTF	3	282	NON	> 5 min
<b>8/23/2023</b>	FAC-13	TV	OIN	521	60,002	NON	> 5 min
<b>8/23/2023</b>	SBE-23	TV	OIN	78	8,983	NON	> 5 min
8/23/2023	SBE-22	TV	OIN	426	86,219	NON	> 5 min
8/23/2023	PHA-17	EF	USV	8	3,262	NON	> 5 min
8/24/2023	COL-26	SO		170	37,202	NON	> 5 min
8/24/2023	COL-26	SO		108	12,292	NON	> 5 min
8/24/2023	FAC-25	CP	UPT	626	66,861	NON	> 5 min
8/24/2023	PHA-13	BA	OTF	3	229	NON	> 5 min
8/25/2023	FAC-12	EF	UTR	11	5,374	NON	> 5 min
8/25/2023	LHL-25	BA	OTF	4	229	NON	> 5 min
8/26/2023	EGT-25	BA	OTF	5	335	NON	> 5 min
8/27/2023	EGT-25	BA	OTR	1	137	NON	> 5 min
8/27/2023	SOM-17	BA	OFU	17	1,699	NON	> 5 min
8/28/2023	BTR-14	SO	ACE	25	10,271	NON	> 5 min
8/28/2023	LHL-22	SO	OPO	4	334	NON	> 5 min
8/28/2023	EVE-23	SO	UOT	1	265	NON	> 5 min
8/29/2023	FAC-23	SO	UPT	2	256	NON	> 5 min
8/29/2023	EGT-27	SO	OPO	92	14,377	NON	> 5 min
8/30/2023	HAZ-12	TV	OSV	1	418	NON	> 5 min
8/30/2023	SBE-26	EF	OCN	3	223	NON	> 5 min
8/30/2023	EVE-23	BA	OTF	1	137	NON	> 5 min
8/31/2023	HAZ-13	BA	OFU	45	4,662	NON	> 5 min
9/1/2023	FAC-12	BA	OTF	3	307	NON	> 5 min
9/2/2023	KWH-22	EF	UHH	2	36	NON	> 5 min
9/3/2023	PHA-16	EF	UPC	21	4,949	NON	> 5 min
9/3/2023	LHL-25	BA	OTF	5	244	NON	> 5 min
9/3/2023	LHL-22	BA	OTF	6	168	NON	> 5 min
9/4/2023	EGT-28	EF	UPC	49	9,996	NON	> 5 min
9/4/2023	HOU-23	EF	UPC	8	1,829	NON	> 5 min
9/5/2023	OVE-15	BA	OFU	6	829	NON	> 5 min
9/5/2023	NRU-23	SO	OPO	1	358	NON	> 5 min
9/5/2023	EGT-28	EF	USV	6	804	NON	> 5 min
9/6/2023	NRU-26	SO	USV	5	43,496	NON	> 5 min
9/6/2023	ARD-13	SO	UTR	3	357	NON	> 5 min
9/7/2023	MED-36	EF	UPC	26	5,198	NON	> 5 min
9/8/2023	COL-26	SO	ACE	38	2,324	NON	> 5 min
9/8/2023	SBE-26	EF	UPC	17	3,002	NON	> 5 min
9/9/2023	SOM-13	EF	UPC	5	461	NON	> 5 min
9/9/2023	OVE-15	EF	UPC	15	4,513	NON	> 5 min
9/9/2023	OVE-15	EF	OCO	6	202	NON	> 5 min
9/9/2023	MLK-12	EF	USV	1	969	NON	> 5 min
7/18/2023	SOM-16	BA	OFU	11	591	NON	> 5 min
9/10/2023	SBE-26	BA	OTF	5	366	NON	> 5 min

DATE	CIRCUIT	CAUSE	EQUIPMENT	CUSTOMERS CUSTOMER STORM			Duration
				OUT	MINUTES	CODE	
9/16/2023	HOU-23	EF	OTR	3	571	NON	> 5 min
9/11/2023	SOM-15	EF	UHH	4	225	NON	> 5 min
9/12/2023	HAZ-13	EF	UPC	14	9,767	NON	> 5 min
9/12/2023	SBE-26	SO	OPO	56	5,794	NON	> 5 min
9/12/2023	EGT-16	EF	UPC	29	4,922	NON	> 5 min
9/12/2023	BTR-14	EF	UPC	21	3,009	NON	> 5 min
9/13/2023	PHA-16	EF	UPC	70	19,534	NON	> 5 min
9/14/2023	COL-26	TV	UOT	6	797	NON	> 5 min
9/14/2023	COL-26	EF	UPT	4	793	NON	> 5 min
9/14/2023	SOM-17	EF	UPC	2	835	NON	> 5 min
9/15/2023	EGT-27	EF	UPC	2	882	NON	> 5 min
12/20/2023	HOU-23	EF		5	497	NON	> 5 min
9/16/2023	LHL-25	EF	OTR	2	442	NON	> 5 min
9/18/2023	EGT-25	EF	UTR	8	2,241	NON	> 5 min
9/19/2023	NRU-14	BA	UGF	18	6,543	NON	> 5 min
9/19/2023	COL-24	SO	ACE	3	105	NON	> 5 min
9/19/2023	EVE-23	BA	OTF	1	127	NON	> 5 min
9/19/2023	SOM-13	UN	UPC	7	1,781	NON	> 5 min
9/19/2023	EGT-28	EF	UOT	179	34,463	NON	> 5 min
9/20/2023	COL-26	TV	OSV	1	589	NON	> 5 min
9/20/2023	OVE-15	UN	UOT	2	352	NON	> 5 min
9/20/2023	OVE-15	TV	OSV	1	310	NON	> 5 min
9/20/2023	EGT-25	TV	OCO	838	55,518	NON	> 5 min
9/20/2023	KWH-26	SO	UEL	2	243	NON	> 5 min
9/21/2023	SOM-17	SO	OPO	23	4,389	NON	> 5 min
9/21/2023	LOC-22	UN	UGF	183	19,136	NON	> 5 min
9/22/2023	KWH-25	EF	UPC	6	4,731	NON	> 5 min
7/28/2023	NOB-24	EF	OTF	9	988	NON	> 5 min
9/22/2023	SOM-17	SO	OPO	15	4,297	NON	> 5 min
9/22/2023	OVE-15	BA	OFU	2	220	NON	> 5 min
9/22/2023	ROS-17	EF	USV	1	97	NON	> 5 min
9/23/2023	OVE-15	TV	OFU	6	851	NON	> 5 min
9/23/2023	LOC-22	SO	ACE	175	43,806	NON	> 5 min
9/25/2023	FAC-25	CP	UPT	243	36,944	NON	> 5 min
9/25/2023	HAZ-12	TV	OTR	4	1,957	NON	> 5 min
9/25/2023	NRU-27	SO		1	191	NON	> 5 min
9/25/2023	MLK-13	EF	USV	22	1,221	NON	> 5 min
9/25/2023	EGT-15	EF	OTR	44	6,247	NON	> 5 min
9/25/2023	PHA-16	EF	OFC	4	1,453	NON	> 5 min
9/25/2023	SBE-26	LI	OTR	5	5,124	NON	> 5 min
9/25/2023	SBE-26	LI	OFC	3	3,061	NON	> 5 min
9/25/2023	SBE-26	EF	OTF	5	823	NON	> 5 min
9/25/2023	SBE-25	EF	OTF	3	472	NON	> 5 min
9/25/2023	GOO-13	TV	OFU	200	22,640	NON	> 5 min
9/26/2023	SBE-26	LI	OTR	3	1,783	NON	> 5 min
9/26/2023	SBE-26	EF	OTF	2	11	NON	> 5 min
9/26/2023	PHA-16	EF	OFC	7	607	NON	> 5 min
9/27/2023	CLY-27	EF	UPC	22	5,225	NON	> 5 min
9/27/2023	CLY-23	BA	OFC	4	479	NON	> 5 min

DATE	CIRCUIT	CAUSE	EQUIPMENT	CUSTOMERS CUSTOMER STORM			Duration
				OUT	MINUTES	CODE	
9/27/2023	SOM-17	SO	OPO	127	39,199	NON	> 5 min
9/27/2023	EGT-27	EF	OTR	6	506	NON	> 5 min
9/27/2023	EGT-27	EF		6	315	NON	> 5 min
9/28/2023	SBE-25	TV	OTF	4	745	NON	> 5 min
9/29/2023	SOM-15	EF	UPC	31	10,357	NON	> 5 min
9/29/2023	SOM-15	EF	UPC	18	5,551	NON	> 5 min
9/30/2023	NOB-14	SO	ACE	4	1,296	NON	> 5 min
10/1/2023	PHA-16	EF	OSV	1	306	NON	> 5 min
10/2/2023	KWH-25	SO	UEL	8	2,105	NON	> 5 min
10/3/2023	SOM-17	EF	OTR	14	4,996	NON	> 5 min
10/4/2023	EVE-23	SO	UPC	24	15	NON	<= 1 min
10/4/2023	EVE-23	SO	UPC	24	10	NON	<= 1 min
10/4/2023	PHA-16	EF	OCN	1	141	NON	> 5 min
10/4/2023	SOM-13	SO	OFU	19	7,745	NON	> 5 min
10/4/2023	KWH-23	EF	USV	5	3,081	NON	> 5 min
10/5/2023	SOM-13	EF	OTF	2	315	NON	> 5 min
10/5/2023	COL-26	EF	ACE	25	3,667	NON	> 5 min
10/5/2023	SOM-17	SO	OPO	29	8,685	NON	> 5 min
10/5/2023	SOM-13	EF	OTR	2	567	NON	> 5 min
10/6/2023	COL-26	EF	ACE	110	11,994	NON	> 5 min
10/6/2023	EGT-25	UN	OCN	1	190	NON	> 5 min
10/6/2023	HAZ-13	BA	OTF	4	783	NON	> 5 min
10/6/2023	HAZ-13	EF	OFU	6	5,009	NON	> 5 min
10/26/2023	NOB-22	EF	UPC	-	6,727	NON	> 5 min
10/9/2023	OVE-15	BA	UOT	1	81	NON	> 5 min
12/10/2023	NOB-24	EF	UGF	8	911	NON	> 5 min
8/21/2023	HOU-23	EF	UPC	6	408	NON	> 5 min
6/23/2023	HOU-23	BA	OFU	4	241	NON	> 5 min
10/10/2023	KWH-25	BA	OTF	4	263	NON	> 5 min
10/10/2023	COL-25	TV	OCO	117	12,396	NON	> 5 min
10/12/2023	COL-26	SO	ACE	38	1,215	NON	> 5 min
10/12/2023	BTR-22	EF	OPO	209	38,031	NON	> 5 min
10/12/2023	KWH-26	SO	UPS	1	110	NON	> 5 min
10/13/2023	CLY-23	TV	OCO	45	13,866	NON	> 5 min
10/13/2023	KWH-25	TV	OTF	5	416	NON	> 5 min
10/13/2023	FAC-12	EF	USV	-	-	NON	No duration
10/13/2023	HAZ-12	EF	USV	1	620	NON	> 5 min
10/13/2023	EVE-23	SO	UHH	6	924	NON	> 5 min
10/13/2023	KWH-25	EF	UHH	6	105	NON	> 5 min
10/14/2023	KWH-25	UN	USV	1	452	NON	> 5 min
10/15/2023	FAC-24	CP	UPT	34	8,001	NON	> 5 min
10/15/2023	FAC-24	CP	UPT	6	10,913	NON	> 5 min
10/15/2023	MLK-15	CP	UPT	14	335	NON	> 5 min
10/16/2023	EGT-28	EF	USV	1	502	NON	> 5 min
10/17/2023	ARD-13	EF	UEL	7	4,622	NON	> 5 min
10/17/2023	NOB-11	EF	UPC	25	7,687	NON	> 5 min
10/17/2023	FAC-24	CP	ACE	6	2	NON	<= 1 min
10/17/2023	KWH-25	EF	USV	1	367	NON	> 5 min
10/18/2023	LOC-23	EF	UPC	37	21,031	NON	> 5 min



DATE	CIRCUIT	CAUSE	EQUIPMENT	CUSTOMERS OUT	CUSTOMER MINUTES	STORM CODE	Duration
10/18/2023	SOM-13	TV	OCO	7	3,453	NON	> 5 min
6/19/2023	SOM-16	SO	UEL	4	474	NON	> 5 min
10/19/2023	CLY-25	SO	UEL	24	1,713	NON	> 5 min
10/19/2023	CLY-26	SO	UEL	38	3,049	NON	> 5 min
10/20/2023	KWH-25	EF	UTR	9	2,176	NON	> 5 min
10/21/2023	ARD-15	EF	UTR	1	103	NON	> 5 min
10/21/2023	ARD-15	EF	UTR	4	390	NON	> 5 min
10/21/2023	EGT-12	EF	USV	1	1	NON	<= 1 min
10/23/2023	HAZ-13	TV	OCO	19	9,535	NON	> 5 min
10/25/2023	HOU-25	TV	OCO	4	2,539	NON	> 5 min
10/25/2023	EGT-25	TV	OCO	1,167	47,030	NON	> 5 min
10/25/2023	EVE-23	EF	UHH	2	92	NON	> 5 min
<b>10/26/2023</b>	NOB-12	EF	UPC	568	59,133	NON	> 5 min
<b>10/26/2023</b>	NOB-14	EF	UPC	1,068	111,131	NON	> 5 min
8/19/2023	NOB-22	EF	OPO	10	6,527	NON	> 5 min
1/31/2023	NOB-24	UN	USV	1	555	NON	> 5 min
10/26/2023	NOB-12	EF	UPC	-	25,204	NON	> 5 min
10/26/2023	NOB-14	EF	UPC	-	47,368	NON	> 5 min
3/23/2023	NOB-22	SO	OSW	4	1,329	NON	> 5 min
10/9/2023	NOB-24	TV	OCO	1	211	NON	> 5 min
10/27/2023	PHA-16	EF	OTR	2	24	NON	> 5 min
10/27/2023	BTR-21	EF	UPC	143	34,055	NON	> 5 min
10/28/2023	BTR-21	EF	UPC	143	59,904	NON	> 5 min
10/28/2023	BTR-23	SO	ACE	2	1,154	NON	> 5 min
8/15/2023	SOM-16	BA	OTF	5	369	NON	> 5 min
10/30/2023	CLY-27	EF		1	154	NON	> 5 min
10/31/2023	KWH-23	EF	USV	6	740	NON	> 5 min
11/1/2023	PHA-17	EF	OCR	31	2,174	NON	> 5 min
11/1/2023	FAC-12	EF	UPC	1,269	168,522	NON	> 5 min
11/1/2023	FAC-12	EF	UTR	3	1,067	NON	> 5 min
11/1/2023	NOB-13	SO		2	600	NON	> 5 min
11/2/2023	ROS-17	TV	SCB	1,151	65,281	NON	> 5 min
11/2/2023	EGT-25	TV	OFU	34	2,446	NON	> 5 min
11/2/2023	EVE-23	TV	SCB	2,975	411,986	NON	> 5 min
11/2/2023	COL-26	TV	OFU	34	32,512	NON	> 5 min
11/2/2023	SBE-26	TV	OFU	101	25,070	NON	> 5 min
11/2/2023	COL-26	TV	OFU	28	19,474	NON	> 5 min
11/2/2023	OVE-15	SO	OSW	1	651	NON	> 5 min
11/3/2023	HOU-25	TV	OFU	4	478	NON	> 5 min
11/3/2023	PHA-16	EF	OPO	4	847	NON	> 5 min
11/3/2023	PHA-16	EF	OSV	1	120	NON	> 5 min
11/3/2023	MLK-13	EF	UTR	1	355	NON	> 5 min
11/4/2023	SBE-25	EF	OSV	3	1,664	NON	> 5 min
7/17/2023	NOB-24	EF	OSV	1	183	NON	> 5 min
<b>11/4/2023</b>	FAC-12	TV	OCO	471	48,348	NON	> 5 min
11/4/2023	HAZ-12	TV	OCO	6	4,501	NON	> 5 min
1/3/2023	NOB-24	EF	OTF	1	143	NON	> 5 min
11/6/2023	EGT-28	SO	UPT	20	4,458	NON	> 5 min
11/6/2023	SBE-25	EF	OCR	74	5,984	NON	> 5 min

DATE	CIRCUIT	CAUSE	EQUIPMENT	CUSTOMERS OUT	CUSTOMER MINUTES	STORM CODE	Duration
11/6/2023	FAC-12	EF	UHH	1	35	NON	> 5 min
11/6/2023	SBE-26	EF	UPC	5	824	NON	> 5 min
11/6/2023	PHA-13	EF	OTF	4	420	NON	> 5 min
11/7/2023	CLY-23	EF	UEL	3	1,721	NON	> 5 min
11/7/2023	LHL-26	EF	UHH	2	64	NON	> 5 min
11/8/2023	NRU-27	TV	OTF	3	201	NON	> 5 min
11/9/2023	HAZ-12	SO	OPO	84	15,380	NON	> 5 min
11/10/2023	BTR-22	TV	OSV	1	46	NON	> 5 min
11/11/2023	CLY-27	EF	OTF	4	318	MEJ	> 5 min
11/12/2023	SOM-16	EF	USV	1	366	NON	> 5 min
11/11/2023	SOM-17	TV	OPO	862	355,992	MEJ	> 5 min
11/11/2023	BTR-22	EF	USV	1	756	MEJ	> 5 min
11/11/2023	KWH-25	TV	OCO	416	18,394	MEJ	> 5 min
11/11/2023	SOM-15	DU	USV	1	129	MEJ	> 5 min
11/11/2023	SOM-13	EF	UHH	2	47	MEJ	> 5 min
11/11/2023	SBE-22	TV	OTF	77	39,932	MEJ	> 5 min
11/11/2023	LHL-22	CP	OPO	24	11,775	MEJ	> 5 min
11/11/2023	LHL-22	CP	OPO	3	1,405	MEJ	> 5 min
11/12/2023	KWH-25	EF	UHH	15	1,748	NON	> 5 min
12/21/2023	SOM-16	SO	OPO	1	110	NON	> 5 min
11/14/2023	MED-36	SO	UTR	5	633	NON	> 5 min
11/14/2023	MED-36	SO	UTR	6	221	NON	> 5 min
11/16/2023	PHA-16	TV	OSV	1	81	NON	> 5 min
11/16/2023	SBE-26	EF	OTF	7	595	NON	> 5 min
11/16/2023	MLK-13	SO	USV	22	3,447	NON	> 5 min
11/17/2023	COL-26	SO	ACE	38	434	NON	> 5 min
11/17/2023	COL-26	EF	UTR	63	12,047	NON	> 5 min
11/17/2023	SOM-15	EF	USV	1	344	NON	> 5 min
11/18/2023	OVE-12	EF	UPC	3	391	NON	> 5 min
11/19/2023	LHL-25	EF	UPT	20	6,107	NON	> 5 min
11/19/2023	LHL-23	EF	UEL	107	15,581	NON	> 5 min
11/19/2023	PHA-17	EF	OSV	4	507	NON	> 5 min
11/19/2023	KWH-26	EF	UTR	7	2,320	NON	> 5 min
11/20/2023	ARD-15	SO	ACE	1	99	NON	> 5 min
11/20/2023	CLY-26	SO	ACE	2	53	NON	> 5 min
11/20/2023	KWH-25	EF	USV	1	229	NON	> 5 min
11/22/2023	LOC-22	TV	OSV	1	228	NON	> 5 min
8/2/2023	HOU-23	EF	USV	1	137	NON	> 5 min
11/25/2023	MLK-16	EF	UPC	37	10,935	NON	> 5 min
11/25/2023	EGT-28	EF	UTR	95	52,691	NON	> 5 min
11/28/2023	BTR-22	BA	OTF	2	169	NON	> 5 min
11/28/2023	HAZ-13	UN	OTF	6	1,067	NON	> 5 min
11/29/2023	EGT-12	EF	OCN	4	522	NON	> 5 min
11/29/2023	BTR-21	UN	OSW	14	308	NON	> 5 min
11/30/2023	BTR-21	UN	OSW	1	1,057	NON	> 5 min
11/30/2023	MLK-12	SO	OTR	6	722	NON	> 5 min
11/30/2023	MLK-12	SO	UPC	6	183	NON	> 5 min
10/19/2023	SOM-16	SO	UEL	3	93	NON	> 5 min
12/1/2023	EGT-28	SO	FSV	3	890	NON	> 5 min

CUSTOMERS CUSTOMER STORM							
DATE	CIRCUIT	CAUSE	EQUIPMENT	OUT	MINUTES	CODE	Duration
12/1/2023	BTR-21	EF	UPC	143	17,726	NON	> 5 min
12/2/2023	EGT-27	TV	OCO	64	67,137	NON	> 5 min
2/6/2023	SOM-16	EF	USV	1	86	NON	> 5 min
12/2/2023	KWH-22	TV	OCO	1,251	106,169	NON	> 5 min
12/2/2023	LHL-22	TV	OSV	1	167	NON	> 5 min
12/2/2023	CLY-25	TV	OSV	1	268	NON	> 5 min
12/2/2023	EGT-11	EF	USV	1	623	NON	> 5 min
12/3/2023	NRU-27	SO		2	647	NON	> 5 min
12/3/2023	SOM-15	EF	USV	1	75	NON	> 5 min
12/3/2023	MLK-15	EF	OTF	5	658	NON	> 5 min
12/3/2023	BTR-22	SO	OPO	7	1,488	NON	> 5 min
12/4/2023	BTR-21	UN	OSW	229	1,658	NON	> 5 min
12/4/2023	BTR-21	UN	OSW	229	626	NON	> 1 & <= 5 min
12/4/2023	MLK-15	SO	ACE	30	10,484	NON	> 5 min
12/4/2023	LHL-26	SO		7	591	NON	> 5 min
12/4/2023	BTR-22	SO	OPO	24	8,739	NON	> 5 min
12/4/2023	LHL-26	FI	USV	1	161	NON	> 5 min
12/4/2023	PHA-16	TV	OCO	50	1,644	NON	> 5 min
12/5/2023	BTR-22	TV	OIN	117	57,123	NON	> 5 min
12/5/2023	HAZ-12	EF	UTR	42	9,618	NON	> 5 min
9/11/2023	HOU-23	EF	OCN	1	131	NON	> 5 min
12/6/2023	HOU-25	TV	OPO	375	47,720	NON	> 5 min
12/6/2023	FAC-25	TV	OCO	1,496	214,253	NON	> 5 min
12/6/2023	NRU-23	EF	UPC	68	11,164	NON	> 5 min
12/6/2023	KWH-25	EF	UPS	112	54	NON	<= 1 min
12/6/2023	SBE-26	TV	OCO	4	1,070	NON	> 5 min
12/7/2023	SOM-13	TV	OPO	5	4,161	NON	> 5 min
12/7/2023	GOO-13	EF	UPT	12	374	NON	> 5 min
12/7/2023	ARD-14	EF	UTR	10	2,078	NON	> 5 min
12/8/2023	ARD-14	EF	UTR	10	752	NON	> 5 min
12/8/2023	FAC-25	EF	USV	1	359	NON	> 5 min
12/8/2023	HAZ-13	EF	UTR	18	4,760	NON	> 5 min
12/8/2023	HAZ-13	EF	UTR	1	378	NON	> 5 min
12/9/2023	MLK-16	SO	UEL	28	5,790	NON	> 5 min
11/5/2023	NOB-24	EF	UPS	1	18	NON	> 5 min
12/11/2023	SBE-25	EF	OSV	1	318	NON	> 5 min
12/11/2023	EGT-12	EF	USV	1	172	NON	> 5 min
12/11/2023	MLK-12	EF	UEL	12	769	NON	> 5 min
12/11/2023	KWH-25	SO	OTR	1	424	NON	> 5 min
10/28/2023	SOM-16	CE	UMP	1	72	NON	> 5 min
12/11/2023	LOC-34	SO	OCO	4	1,586	NON	> 5 min
12/12/2023	MED-35	EF	USV	1	87	NON	> 5 min
12/12/2023	LOC-34	SO	OCO	4	1,687	NON	> 5 min
12/14/2023	KWH-25	EF	USV	1	364	NON	> 5 min
12/14/2023	KWH-23	EF	USV	1	293	NON	> 5 min
12/15/2023	FAC-25	EF	UPT	25	6,927	NON	> 5 min
12/15/2023	KWH-25	SO	OPO	77	24,309	NON	> 5 min
12/15/2023	SOM-15	EF	USV	1	94	NON	> 5 min
12/15/2023	SBE-26	EF	OTR	3	262	NON	> 5 min

DATE	CIRCUIT	CAUSE	EQUIPMENT	CUSTOMERS OUT	CUSTOMER MINUTES	STORM CODE	Duration
12/17/2023	OVE-15	EF	OTF	3	319	NON	> 5 min
12/18/2023	PHA-13	EF	OMP	1	108	NON	> 5 min
12/19/2023	BTR-22	SO		6	1,123	NON	> 5 min
12/20/2023	HAZ-12	SO	ACE	214	12,615	NON	> 5 min
11/24/2023	HOU-23	EF	USV	1	127	NON	> 5 min
12/20/2023	NRU-27	SO	USV	1	81	NON	> 5 min
12/20/2023	BTR-14	EF	UPC	151	32,597	NON	> 5 min
7/26/2023	SOM-16	EF	UHH	2	33	NON	> 5 min
10/10/2023	HOU-23	EF	UTF	22	10	NON	<= 1 min
12/22/2023	FAC-12	EF	USV	5	1,131	NON	> 5 min
12/22/2023	KWH-23	EF	OPO	87	41,325	NON	> 5 min
12/22/2023	PHA-13	TV	OFU	11	341	NON	> 5 min
12/23/2023	FAC-24	CP	UPT	9	1,586	NON	> 5 min
12/24/2023	EGT-28	EF	UPC	15	1,709	NON	> 5 min
12/25/2023	SOM-17	EF	USV	1	79	NON	> 5 min
12/26/2023	EGT-28	EF	UHH	2	59	NON	> 5 min
12/26/2023	KWH-23	EF	UHH	3	264	NON	> 5 min
12/26/2023	PHA-17	EF	OCO	9	3,868	NON	> 5 min
12/26/2023	PHA-17	TV	OCO	7	3,015	NON	> 5 min
12/27/2023	KWH-25	TV	OCO	198	44,769	NON	> 5 min
12/27/2023	EGT-16	TV	OSV	1	342	NON	> 5 min
12/27/2023	PHA-16	TV	OSV	1	84	NON	> 5 min
12/27/2023	PHA-16	TV	OSV	1	434	NON	> 5 min
12/29/2023	PHA-13	SO	OTR	7	909	NON	> 5 min
12/29/2023	SOM-13	EF	UPC	5	1,984	NON	> 5 min
12/31/2023	PHA-13	EF	OTF	3	310	NON	> 5 min

	Totals	73,502	11,802,193
	Substation and transmission outages	8,829	891,485
	Totals excluding substation & transmission outages	64,673	10,910,708
	Scheduled outages	3,269	784,748

- Notes:
- 1 Storm, tree limb in terminations took out sub
  - 2 Storm, tree in transmission line

- Storm Codes:
- MEJ Not included in SAIDI or SAIFI calculations
  - NON Included in SAIDI & SAIFI calculations

## 2023 RELIABILITY REPORT CODES LEGEND

DISTRIBUTION SUBSTATION CODES	OUTAGE CAUSE CODES
ARD ARDMORE (REDMOND)	AC ACCIDENT
BTR BRIDLE TRAILS	AO ACCIDENT OTHER, WITH FIRES
CEN CENTER	AV ACCIDENT/VANDALISM NOT RESULTING IN DC
CLY CLYDE HILL	BA BIRD OR ANIMAL
COL COLLEGE	CE CUSTOMER EQUIPMENT
EGT EASTGATE	CP <b>CAR/EQUIP ACCIDENT</b>
EVE EVERGREEN (REDMOND)	DU DIG UP UNDERGROUND
FAC FACTORIA	EF EQUIPMENT FAILURE
GOO GOODES CORNER (ISSAQUAH)	EO ELECTRICAL OVERLOAD
HAZ HAZELWOOD (NEWCASTLE)	EQ EARTHQUAKE
HOU HOUGHTON (KIRKLAND)	FI FAULTY INSTALLATION
KWH KENILWORTH (REDMOND)	LI LIGHTNING
LHL LAKE HILLS	ND NATURAL DISASTER
LOC LOCHLEVEN	OD <b>OUTSIDE UTILITY SOURCE</b>
MED MEDINA (MEDINA)	OE <b>OUTAGE WHILE WORKING</b>
MLK MIDLAKES	PO PARTIAL OUTAGE
NOB NORTH BELLEVUE	SO SCHEDULED OUTAGE
NRU NORTHRUP	TF TREE - OFF RIGHT OF WAY
OVE OVERLAKE (MEDINA)	TO TREE - ON RIGHT OF WAY
PHA PHANTOM LAKE	TV TREE - RIGHT OF WAY UNKNOWN
ROS ROSE HILL (REDMOND)	UN UNKNOWN CAUSE
SBE SOUTH BELLEVUE	VA VANDALISM
SOM SOMERSET	
	STORM CODES
	MEJ IEEE MED & MAJOR STORM
	MEN IEEE MED but NON STORM
	NMJ NON IEEE MED but MAJOR STORM
	NON NON IEEE MED & NON STORM

EQUIPMENT CODES	EQUIPMENT CODES
ACE ALL CUSTOMER EQUIPMENT	OTR OVERHEAD TRANSFORMER
ARR SURGE ARRESTER	OTS OVERHEAD TRAFFIC CONTROL SIGNAL
<b>BAT BATTERY</b>	OUP <b>OVERHEAD TO UNDERGROUND PRIMARY</b>
CC CAPACITOR CAN	OUS <b>OVERHEAD TO UNDERGROUND SECONDARY</b>
CDH CONDUCTOR DOWN & HOT	PED <b>SECONDARY PEDESTAL</b>
CFD CAPACITOR BANK FUSED DISCONNECT	PFT <b>PADMOUNT FAST TRANSFORMER</b>
CHG CHARGER	PMF PADMOUNT SWITCH FUSE
CON CONNECTIONS	PMJ PADMOUNT J-BOX
CTX TRANSFORMER INSTRUMENT (CURRENT)	PMP <b>PADMOUNT METER POINT</b>
DNO DID NOT OPERATE	PST <b>PADMOUNT STEP TRANSFORMER</b>
ELT ELBOW - TRANSFORMER	PTF PADMOUNT TRANSFORMER FUSE
ERC RECLOSER CONTROLLER	PTX PADMOUNT TRANSFORMER INSTRUMENT
FCC FUSE - CAPACITOR CAN	RCL RECLOSER (SUBSTATION)
FHV FUSE - HIGH VOLTAGE (POWER)	RLE RELAY - ELECTROMECHANICAL
FLV FUSE - LOW VOLTAGE (CONTROL)	RLM RELAY - MICROPROCESSOR
<b>FSV FUSES AVER</b>	RLS RELAY - SOLID STATE
GAR GUY ANCHOR ROD	SCB POWER CIRCUIT BREAKER
GCB GAS CIRCUIT BREAKER (POWER)	SCS CIRCUIT SWITCHER
INS INSULATOR	SPT STATION POWER TRANSFORMER
LTC LOAD TAP CHANGER	SRG STATION REGULATOR
MOT MOTOR OPERATOR	SWC SWITCH - CAPACITOR BANK
MTR METER	SWD SWITCH - DISTRIBUTION DISCONNECT
OAL OVERHEAD AREA LIGHT	SWT SWITCH - TRANSMISSION
OAN OVERHEAD ANCHOR	TER TERMINATION (POWER CABLE)
OAR OVERHEAD ARRESTER	UCU UNDERGROUND COMMUNICATION CABLE
OAT <b>OVERHEAD AUTO TRANSFORMER</b>	UDC UNDERGROUND DUST CAP
OCA <b>OVERHEAD CAPACITOR</b>	UEL UNDERGROUND ELBOW
OCB CIRCUIT BREAKER (POWER) - OIL	UFE UNDERGROUND FUSED ELBOW
OCE CUSTOMER EQUIPMENT	UFI UNDERGROUND FAULT INDICATOR
OCN OVERHEAD SECONDARY CONNECTOR	UFJ UNDERGROUND J-BOX
OCO OVERHEAD CONDUCTOR	UFO UNDERGROUND FIBER OPTICS
OCR OVERHEAD CROSSARM	UFS UNDERGROUND FIRE SIGNAL
OFC OVERHEAD CUT-OUT	UGF UNDERGROUND SUBMERSIBLE FUSE
OFI OVERHEAD FAULT INDICATOR	UGV UNDERGROUND VAULT
OFL OVERHEAD FLOOD LIGHT	UHH UNDERGROUND HANDHOLE - SECONDARY
OFS OVERHEAD FIRE SIGNAL	UHM UNDERGROUND HAMMERHEADS
OFU OVERHEAD LINE FUSE / FUSE LINK	UIC UNDERGROUND INDOOR STRESS CONE
OGD OVERHEAD DOWN GUY	UJU UNDERGROUND PRIMARY JUMPER
OGS OVERHEAD SPAN GUY	UMP <b>UNDERGROUND METER POINT</b>
OHR <b>OVERHEAD RECLOSER</b>	UNK <b>UNKNOWN</b>
OHS <b>OVERHEAD SECTIONALIZER</b>	UOT UNDERGROUND OUTDOOR TERMINATION
OIN OVERHEAD INSULATOR	UPC UNDERGROUND PRIMARY CABLE
OJU OVERHEAD JUMPER WIRE	UPH UNDERGROUND PADMOUNT PHASE SHIFTER
OMP <b>OVERHEAD METER POINT</b>	UPS <b>UNDERGROUND PADMOUNT SWITCH</b>
ONI OVERHEAD NEUTRAL ISOLATOR	UPT UNDERGROUND PADMOUNT TRANSFORMER
OPB <b>OVERHEAD POLE BRACE</b>	USC UNDERGROUND SECONDARY CABLE
OPI OVERHEAD INSULATOR PIN	USE <b>UNDERGROUND SECONDARY CONNECTOR</b>
OPO <b>OVERHEAD POLE</b>	USP UNDERGROUND PRIMARY SPLICE
OPS <b>OVERHEAD POLE STUB</b>	USS UNDERGROUND SCHOOL SIGNAL
ORE <b>OVERHEAD REGULATOR</b>	USV UNDERGROUND SERVICE
OSL <b>OVERHEAD STREET LIGHT</b>	UTC UNDERGROUND TERMINAL FUSE
OSP OVERHEAD SPLICE PRIMARY	UTF <b>UNDERGROUND TRANSFORMER FUSE</b>
OSS OVERHEAD SCHOOL SIGNAL	UTR <b>UNDERGROUND TRANSFORMER</b>
OQT <b>OVERHEAD STEP TRANSFORMER</b>	UTS UNDERGROUND TRAFFIC CONTROL SIGNAL
OSV OVERHEAD SERVICE	UUS <b>UNDERGROUND SWITCH</b>
OSW <b>OVERHEAD SWITCH</b>	UVS UNDERGROUND VISTA SWITCH
OTF OVERHEAD TRANSFORMER FUSE	VCB VACUUM CIRCUIT BREAKER (POWER)
OTH <b>OTHER</b>	XFR TRANSFORMER - UNKNOWN TYPE
<b>OTP OVERHEAD TRIPSAVER</b>	XRT NEUTRAL REACTOR
	XSS TRANSFORMER - STATION SERVICE

Changed from 2022  
New since 2022  
Removed from 2022

MAN

MANUAL OPERATION

## 2023 Service Quality Report Card

Each year Puget Sound Energy measures service-quality benchmarks established in cooperation with the Washington Utilities and Transportation Commission (UTC), the Public Counsel Unit of the Attorney General’s Office, and other parties. These benchmarks ensure we are satisfying customer expectations, providing reliable service, and keeping customers safe. Failure to achieve these service-quality measurements would put us at risk of a penalty of up to \$12 million.

Key Measurement	Benchmark	2023 Performance	Achieved
<b>Customer Satisfaction</b>			
Percent of customers satisfied with our Customer Care Center services, based on survey	At least 90 percent	95 percent	✓
Percent of customers satisfied with field services, based on survey	At least 90 percent	97 percent	✓
Number of complaints to the UTC per 1,000 customers, per year	Less than 0.4 complaints	0.11 complaints	✓
<b>Customer Services</b>			
Percent of calls answered live within 60 seconds by our Customer Care Center	At least 80 percent	87 percent	✓
<b>Operations Services</b>			
Frequency of non-major-storm power outages, per year, per customer	Less than 1.2 outages	1.10 outages	✓
Length of power outages per year, per customer	Less than 155 minutes	167 minutes	
Time from customer call to arrival of field technicians in response to electric system emergencies	No more than 55 minutes	53 minutes	✓
Time from customer call to arrival of field technicians in response to natural gas emergencies	No more than 55 minutes	33 minutes	✓
Percent of service appointments kept	At least 92 percent	99 percent	✓

## 2023 Performance Highlights

We met eight of the nine service-quality measurements (see chart above) and improved our performance for five measurements: percent of customers satisfied with our Customer Care Center services, based on survey; number of complaints to the UTC per 1,000 customers, per year; percent of calls answered live within 60 seconds by our Customer Care Center; time from customer call to arrival of field technicians in response to electric system emergencies; time from customer call to arrival of field technicians in response to natural gas emergencies.

We did not meet the benchmark for length of power outages per year, per customer. While the length of power outages per year, per customer decreased in 2023 compared to 2022, outages caused by trees/vegetation and vehicle collisions with PSE equipment were significant contributors to the annual performance not meeting the benchmark.

There is no performance penalty associated with the measurement, but we give customers a \$50 account credit when we don’t restore the customer’s power within 24 consecutive hours during a non-major-storm power outage.

In addition to committing to the nine service-quality measures, we have three service guarantees to our customers:

- Keeping scheduled appointments.
- If your power is out for 120 consecutive hours or longer during any power outage.
- If your power is out for 24 consecutive hours or longer during a non-major-storm power outage.

If we fail to meet any of these guarantees, we credit your account \$50, conditions apply, and customer action required. Learn more at [pse.com/pages/customer-service-guarantees](https://pse.com/pages/customer-service-guarantees) or 1-888-225-5773.

In 2023, PSE paid \$18,100 for missing 362 of the total 29,349 service guaranteed appointments. We provided 50 customers with a \$50 credit in 2023 for not restoring electric service within 24 consecutive hours during certain non-major-storm power outages. There were no customer claims issued on restoring electric service within 120 consecutive hours during any power outage.

Every day our employees aim to provide safe, dependable, and efficient service to meet your expectations.