



GUNSTER
FLORIDA'S LAW FIRM FOR BUSINESS

Writer's Direct Dial Number: (850) 521-1706
Writer's E-Mail Address: bkeating@gunster.com

March 1, 2022

E-PORTAL FILING

Mr. Adam Teitzman, Clerk
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

Re: 20220000-OT – Undocketed Filings for 2022.

Dear Mr. Teitzman:

Attached for filing on behalf of Florida Public Utilities Company, please find the Company's 2022 Distribution Reliability Report for the prior period 2021.

As always, please don't hesitate to let me know if you have any questions. Thank you for your assistance with this filing.

Kind regards,

Gunster, Yoakley & Stewart, P.A.
215 South Monroe St., Suite 601
Tallahassee, FL 32301
(850) 521-1706

cc:/ Tom Ballinger
Penelope Buys



P.O. Box 418
Fernandina Beach
FL 32035-0418
Phone: 904/261-3663
Fax: 904/261-3666
www.fpuc.com

March 1, 2022

Mr. Thomas Ballinger, Director
Division of Engineering
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0868

Dear Mr. Ballinger:

Attached is Florida Public Utilities Company's required 2021 Annual Update. The update includes the Annual Distribution Service Reliability Report required by Rule 25-6.0455. This report only includes section 1.

The Annual Wood Pole Inspection Report required by Order No. PSC-06-0144, and updates of our Storm Hardening Plan and Ten Storm Preparedness Initiatives, as required by Order No. PSC-06-0781 will be submitted on June 1, 2022.

If you have any questions, please call (904) 530-7052 or e-mail mcassel@chpk.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael Cassel".

Michael Cassel
Vice President, Governmental and Regulatory Affairs
Florida Public Utilities Company

Attachments

Cc: Commission Clerk
Jeff Sylvester
Martin Cheryl
Buddy Shelley
Mark Cutshaw
Jorge Puentes

Florida Public Utilities Company

Reliability Indices Report (Section I)

2021 Annual Update

March 1, 2022



Florida Public Utilities Company

**Reliability, Wood Pole Inspections,
Storm Hardening, and Storm Preparedness Initiatives**

Annual Update

Table of Contents

Introduction

I. Reliability Indices

Introduction

This is the FPUC's annual update. The update includes the Annual Distribution Service Reliability Report required by Rule 25-6.0455. However, this year, the report will initially only include section I. The Annual Wood Pole Inspection Report required by Order No. PSC-06-0144, and updates of our Storm Hardening Plan and Ten Storm Preparedness Initiatives, as required by Order No. PSC-06-0781 will be submitted in June 1, 2022. The update has been traditionally divided into four primary sections: I. Reliability Indices; II. Wood Pole Inspections; III. Storm Hardening; and, IV. Storm Preparedness Initiatives. FPUC report forms, research reports, contractor reports, and other available supplemental supporting documentation are incorporated into the appropriate sections of the update. FPSC reliability index report forms have been updated and are also included.

FPUC has two electric divisions, Northwest (NW) Division, also referred to as Marianna, and Northeast (NE) Division, and also referred to as Fernandina Beach. In some cases, each division's results are reported separately. For example, NW has no transmission facilities. Therefore, only NE will be reporting on Storm Preparedness Initiatives #3 (Six Year Transmission Structure Inspections) and #4 (Storm Hardening of Existing Transmission Structures). Also, the two divisions are approximately 250 miles apart and, although they may supply resources to support one another during emergency situations, each division will prepare separate emergency response plans to address Initiative #10 (Natural Disaster Preparedness and Recovery Program). In other cases, consolidated reports or a combination of individual and consolidated reports provide a more complete overview and reports are prepared accordingly.

I. Reliability Indices

This section contains the FPUC Annual Distribution Service Reliability Report required by Florida Public Service Commission (FPSC) Rule 25-6.0455.

In addition to the supporting data provided by FPUC for clarification, the report was prepared using the forms developed by FPSC. Indices are reported on an *actual* and *adjusted* basis, as follows:

- a. Total number of Outage Events (N), categorized by cause for the highest ten causes.
- b. Identification of three percent (3%) of Primary Circuits (feeders) with the highest number of feeder breaker interruptions.
- c. SAIDI, CAIDI, SAIFI, and L-Bar reliability indices for each division and by company total*.

Indices are calculated as follows:

$$\text{SAIDI} = \text{System Average Interruption Duration Index} = \frac{\text{Total Customer Minutes of Interruption (CMI)}}{\text{Total Number of Customers Served (C)}}$$

$$\text{CAIDI} = \text{Customer Average Interruption Duration Index} = \frac{\text{Total Customer Minutes of Interruption (CMI)}}{\text{Total Number of Customer Interruptions (CI)}}$$

$$\text{SAIFI} = \text{System Average Interruption Frequency Index} = \frac{\text{Total Number of Customer Interruptions (CI)}}{\text{Total Number of Customers Served (C)}}$$

$$\text{L-Bar} = \text{Average Duration of Outage Events} = \frac{\text{Sum of All Outage Event Durations (L)}}{\text{Total Number of Outage Events (N)}}$$

* The FPUC total electric retail customer count is well below 50,000. Per Rule 25-6.0455, (3) (c), MAIFI and CEMI5 indices are not applicable (N/A) and not reported at this time.

Forms reporting *actual* data include all outage events. Forms reporting *adjusted* data exclude outage events directly caused by one or more of the following, if applicable:

- a. Planned Service Interruptions;
- b. A storm named by the National Hurricane Center;
- c. A tornado recorded by the National Weather Service;
- d. Ice on lines;
- e. A planned load management event;
- f. Electric generation or transmission events not governed by subsections 25-6.018 (2) and (3);
- g. Extreme weather or fire events causing activation of the county emergency operation center.

Definitions from Rule 25-6.044 'Continuity of Service' are provided below for clarification:

- a. **"Area of Service."** A geographic area where a utility provides retail electric service. An Area of Service can be the entire system, a district, or a sub-region of the utility's system in which centralized distribution service functions are carried out.
- b. **"Average Duration of Outage Events (L-Bar)."** The sum of each Outage Event Duration (L) for all Outage Events occurring during a given time period, divided by the Number of Outage Events (N) over the same time period within a specific Area of Service.
- c. **"Customer Average Interruption Duration Index (CAIDI)."** The average time to restore service to interrupted retail customers within a specified Area of Service over a given period of time. It is determined by dividing the sum of Customer Minutes of Interruption (CMI) by the total number of Service (aka Customer) Interruptions (CI) for the respective Area of Service.
- d. N/A (CEMI5).
- e. **"Customer Minutes of Interruption (CMI)."** For a given Outage Event, CMI is the sum of each affected retail customer's Service Interruption Duration.
- f. thru h. N/A (MAIFIE)
- i. **"Number of Customers Served (C)."** The sum of all retail customers on the last day of a given time period within a specific Area of Service.
- j. **"Number of Outage Events (N)."** The sum of Outage Events for an Area of Service over a specified period of time.
- k. **"Outage Event."** An occurrence that results in one or more individual retail customer Service Interruptions.
- l. **"Outage Event Duration (L)."** The time interval, in minutes, between the time a utility first becomes aware of an Outage Event and the time of restoration of service to the last retail customer affected by that Outage Event.
- m. **"Service Interruption."** The complete loss of voltage of at least one minute to a retail customer. (CI for one customer).
- n. **"Service Interruption Duration."** The time interval, in minutes, between the time a utility first becomes aware of a Service Interruption and the time of restoration of service to that retail customer. (CMI for one customer).
- o. **"System Average Interruption Duration Index (SAIDI)."** The average minutes of Service Interruption Duration per retail customer served within a specified Area of Service over a given period of time. It is determined by dividing the total Customer Minutes of Interruption (CMI) by the total Number of Customers Served (C) for the respective Area of Service.
- p. **"System Average Interruption Frequency Index (SAIFI)."** The average number of Service Interruptions per retail customer within a specified Area of Service over a given period of time. It is determined by dividing the sum of Service (aka Customer) Interruptions (CI) by the total Number of Customers Served (C) for the respective Area of Service.
- q. **"Planned Service Interruption."** A Service Interruption initiated by the utility to perform necessary scheduled activities, such as maintenance, infrastructure improvements, and new construction due to customer growth.

**FLORIDA PUBLIC SERVICE COMMISSION
ANNUAL DISTRIBUTION SERVICE RELIABILITY REPORT – ACTUAL**

PART I

<u>CAUSES OF OUTAGE EVENTS – ACTUAL</u>			
Utility Name: Florida Public Utilities Company- NE Division			Year: 2021
Cause (a)	Number of Outage Events(N) (b)	Average Duration (L-Bar) (c)	Average Restoration Time (CAIDI) (d)
Vegetation	89	107.17	115.96
Defective Equipment	84	97.74	56.87
Animal	76	67.14	110.20
Unknown	75	100.08	85.91
Lightning	16	100.63	175.53
Named Storm	10	115.40	136.20
Other	7	156.00	67.49
Other Weather	7	107.86	118.13
Vehicle	5	94.80	98.97
Planned Outage	5	66.00	97.97
Substation	2	99.00	89.51
System Totals NE	376	95.66	99.96

PSC/ECR 102-1(a) (8/06)
Incorporated by reference in Rule 25-6.0455,
Florida Administrative Code

**FLORIDA PUBLIC SERVICE COMMISSION
ANNUAL DISTRIBUTION SERVICE RELIABILITY REPORT – ADJUSTED**

PART I

<u>CAUSES OF OUTAGE EVENTS – ADJUSTED</u>			
Utility Name: Florida Public Utilities Company- NE Division			Year: 2021
Cause (a)	Number of Outage Events(N) (b)	Average Duration (L-Bar) (c)	Average Restoration Time (CAIDI) (d)
Vegetation	89	107.17	115.96
Defective Equipment	84	97.74	56.87
Animal	76	67.14	110.20
Unknown	75	100.08	85.91
Lightning	16	100.63	175.53
Other	7	156.00	67.49
Other Weather	7	107.86	118.13
Vehicle	5	94.80	98.97
System Totals NE	359	95.51	100.93

PSC/ECR 102-1(b) (8/06)
Incorporated by reference in Rule 25-6.0455,
Florida Administrative Code

**FLORIDA PUBLIC SERVICE COMMISSION
ANNUAL DISTRIBUTION SERVICE RELIABILITY REPORT – ACTUAL**

PART I

<u>CAUSES OF OUTAGE EVENTS – ACTUAL</u>			
Utility Name: Florida Public Utilities Company- NW Division			Year: 2021
Cause (a)	Number of Outage Events(N) (b)	Average Duration (L-Bar) (c)	Average Restoration Time (CAIDI) (d)
Vegetation	267	114.23	110.14
Named Storm	225	1,064.82	961.41
Lightning	108	102.90	113.55
Animal	92	62.43	59.76
Unknown	79	90.11	77.94
Defective Equipment	51	144.59	75.02
Other Weather	27	124.33	100.23
Vehicle	25	144.64	120.55
Other	22	120.23	48.40
Planned Outage	9	65.00	104.86
Substation	1	96.00	96.00
System Totals: NW	906	344.08	301.82

PSC/ECR 102-1(a) (8/06)
Incorporated by reference in Rule 25-6.0455,
Florida Administrative Code

**FLORIDA PUBLIC SERVICE COMMISSION
ANNUAL DISTRIBUTION SERVICE RELIABILITY REPORT – ADJUSTED**

PART I

<u>CAUSES OF OUTAGE EVENTS – ADJUSTED</u>			
Utility Name: Florida Public Utilities Company – NW Division		Year: 2021	
Cause (a)	Number of Outage Events(N) (b)	Average Duration (L-Bar) (c)	Average Restoration Time (CAIDI) (d)
Vegetation	267	114.23	110.14
Lightning	108	102.90	113.55
Animal	92	62.43	59.76
Unknown	79	90.11	77.94
Defective Equipment	51	144.59	75.02
Other Weather	27	124.33	100.23
Vehicle	25	144.64	120.55
Other	22	120.23	48.40
System Totals: NW	671	106.51	100.09

PSC/ECR 102-1(b) (8/06)
Incorporated by reference in Rule 25-6.0455,
Florida Administrative Code

**FLORIDA PUBLIC SERVICE COMMISSION
ANNUAL DISTRIBUTION SERVICE RELIABILITY REPORT – ACTUAL**

PART I

<u>CAUSES OF OUTAGE EVENTS – ACTUAL</u>			
Utility Name: Florida Public Utilities Company- FPUC Total			Year: 2021
Cause (a)	Number of Outage Events(N) (b)	Average Duration (L-Bar) (c)	Average Restoration Time (CAIDI) (d)
Vegetation	356	112.47	112.58
Named Storm	235	1,024.42	936.16
Animal	168	64.57	94.19
Unknown	154	94.97	82.40
Defective Equipment	135	115.44	59.80
Lightning	124	102.60	143.26
Other Weather	34	120.94	104.30
Vehicle	30	136.33	116.11
Other	29	128.86	49.54
Planned Outage	14	65.36	99.84
Substation	3	98.00	92.21
System Totals FPUC	1,282	271.22	212.51

PSC/ECR 102-1(a) (8/06)
Incorporated by reference in Rule 25-6.0455,
Florida Administrative Code

**FLORIDA PUBLIC SERVICE COMMISSION
ANNUAL DISTRIBUTION SERVICE RELIABILITY REPORT – ADJUSTED**

PART I

<u>CAUSES OF OUTAGE EVENTS – ADJUSTED</u>			
Utility Name: Florida Public Utilities Company- FPUC Total			Year: 2021
Cause (a)	Number of Outage Events(N) (b)	Average Duration (L-Bar) (c)	Average Restoration Time (CAIDI) (d)
Vegetation	356	112.47	112.58
Animal	168	64.57	94.19
Unknown	154	94.97	82.40
Defective Equipment	135	115.44	59.80
Lightning	124	102.60	143.26
Other Weather	34	120.94	104.30
Vehicle	30	136.33	116.11
Other	29	128.86	49.54
System Totals FPUC	1,030	102.68	100.48

PSC/ECR 102-1(b) (8/06)
Incorporated by reference in Rule 25-6.0455,
Florida Administrative Code

PART II

THREE PERCENT FEEDER LIST – ACTUAL												
Utility Name: <u>Florida Public Utilities Company</u>										Year: <u>2021</u>		
Primary Circuit Id. No. or Name (a)	Sub-station Origin (b)	Location (c)	Number of Customers				Outage Events "N" (i)	Average Duration "L-Bar" (j)	CAIDI (k)	Listed Last Year? (l)	No. of Years in the Last 5 (m)	Corrective Action Completion Date (n)
			Residential (d)	Commercial (e)	Industrial (f)	Other (g)						
212	J L Terry	Northeast	987	100	0	0	4	74.50	74.53	NO	0	N/A
9854	Marianna	Northwest	1,955	26	0	0	2	559.50	485.88	NO	0	N/A

PSC/ECR 102-2(a) (8/06)
 Incorporated by reference in Rule 25-6.0455,
 Florida Administrative Code

PART II

THREE PERCENT FEEDER LIST – ADJUSTED

Utility Name: <u>Florida Public Utilities Company</u>										Year: <u>2021</u>				
Primary Circuit Id. No. or Name (a)	Sub-station Origin (b)	Location (c)	Number of Customers				Average Duration "L-Bar" (j)	CAIDI (k)	Listed Last Year? (l)	No. of Years in the Last 5 (m)	Corrective Action Completion Date (n)			
			Residential (d)	Commercial (e)	Industrial (f)	Other (g)						Total (h)	Outage Events "N" (i)	
212	JL Terry	Northeast	987	100	0	0	0	887	3	74.50	74.53	NO	0	N/A
9952	Altha	Northwest	855	22	0	0	0	833	2	203.50	203.50	NO	1	N/A

PSC/ECR 102-2(b) (8/06)
 Incorporated by reference in Rule 25-6.0455,
 Florida Administrative Code

PART III

SYSTEM RELIABILITY INDICES – ACTUAL					
Utility Name: Florida Public Utilities Company				Year: 2021	
District or Service Area (a)	SAIDI (b)	CAIDI (c)	SAIFI (d)	MAIFle (e)	CEMI5 (f)
NE Division	148.86	99.96	1.49	N/A*	N/A*
NW Division	788.61	301.82	2.61	N/A*	N/A*
System Averages	416.30	212.51	1.96	N/A*	N/A*

* Total # of Electric Retail Customers is well below 50,000. N/A by Rule 25-6.0455 (3) (c)

PSC/ECR 102-3(a) (8/06)
 Incorporated by reference in Rule 25-6.0455,
 Florida Administrative Code

PART III

<u>SYSTEM RELIABILITY INDICES – ADJUSTED</u>					
Utility Name: Florida Public Utilities Company			Year: 2021		
District or Service Area (a)	SAIDI (b)	CAIDI (c)	SAIFI (d)	MAIFle (e)	CEMI5 (f)
NE Division	108.58	100.93	1.08	N/A*	N/A*
NW Division	175.44	100.09	1.75	N/A*	N/A*
System Averages	136.53	100.48	1.36	N/A*	N/A*

* Total # of Electric Retail Customers is well below 50,000. N/A by Rule 25-6.0455 (3) (c)

PSC/ECR 102-3(b) (8/06)
 Incorporated by reference in Rule 25-6.0455,
 Florida Administrative Code

2021 - Reliability Indicators By Feeder FPUC – NE (Actual)

Cause	Number of Outage Events (N)	Average Duration (L-Bar)	CAIDI	Sum of all Customer Min. Interrupted (CMI)	Total Customer Interruptions (CI)	Total Outage Duration (L)	SAIDI	SAIFI
AIP (315)	1	98.00	98.00	525,868	5,366	98		
AMELIA ISLAND PARKWAY (312)	15	113.67	168.00	275,008	1,637	1,705		
BAILEY (311)	52	78.79	38.84	149,171	3,841	4,097		
BONNIEVIEW (310)	20	109.20	226.28	267,918	1,184	2,184		
CLINCH DRIVE (214)	35	92.77	123.02	140,730	1,144	3,247		
ELEVEN STREET (212)	44	109.73	83.66	374,862	4,481	4,828		
FIFTEENTH STREET (209)	28	77.36	75.83	15,394	203	2,166		
JASMINE STREET (211)	59	98.19	114.02	561,888	4,928	5,793		
NECTARINE (210)	16	100.94	122.21	22,120	181	1,615		
PARKWAY SOUTH (104)	2	88.00	68.04	68,720	1,010	176		
PLANTATION FIELDSIDE (111)	9	111.67	89.01	36,227	407	1,005		
PLANTATION ROADSIDE (110)	6	166.33	131.34	22,590	172	998		
SADLER NECTARINE SO.14TH (215)	21	73.71	62.88	17,670	281	1,548		
SOUTH FLETCHER (102)	68	95.74	104.52	98,146	939	6,510		
Totals	376	95.66	99.96	2,576,312	25,774	35,970	148.86	1.49

Total No. of Customers at end of 2021==>

17,307

2021 - Reliability Indicators By Feeder FPUC - NE (Adjusted)

Cause	Number of Outage Events (N)	Average Duration (L-Bar)	CAIDI	Sum of all Customer Min. Interrupted (CMI)	Total Customer Interruptions (CI)	Total Outage Duration (L)	SAIDI	SAIFI
AMELIA ISLAND PARKWAY (312)	11	133.91	168.26	274,776	1,633	1,473		
BAILEY (311)	50	80.62	38.79	147,653	3,806	4,031		
BONNIEVIEW (310)	19	108.11	305.92	198,238	648	2,054		
CLINCH DRIVE (214)	35	92.77	123.02	140,730	1,144	3,247		
ELEVEN STREET (212)	43	108.14	82.59	365,962	4,431	4,650		
FIFTEENTH STREET (209)	28	77.36	75.83	15,394	203	2,166		
JASMINE STREET (211)	55	96.62	113.08	540,049	4,776	5,314		
NECTARINE (210)	16	100.94	122.21	22,120	181	1,615		
PARKWAY SOUTH (104)	1	108.00	108.00	108	1	108		
PLANTATION FIELDSIDE (111)	9	111.67	89.01	36,227	407	1,005		
PLANTATION ROADSIDE (110)	6	166.33	131.34	22,590	172	998		
SADLER NECTARINE SO.14TH (215)	21	73.71	62.88	17,670	281	1,548		
SOUTH FLETCHER (102)	65	93.52	104.40	97,715	936	6,079		
Totals	359	95.51	100.93	1,879,232	18,619	34,288	108.58	1.08

Total No. of Customers at end of 2021 ==>

17,307

2021 - Reliability Indicators By Feeder FPUC - NW (Actual)

Cause	Number of Outage Events (N)	Average Duration (L-Bar)	CAIDI	Sum of all Customer Min. Interrupted (CMI)	Total Customer Interruptions (CI)	Total Outage Duration (L)	SAIDI	SAIFI
ALTHA (9952)	99	268.84	310.43	1,285,161	4,140	26,615		
BLOUNTSTOWN (9972)	14	158.50	506.23	161,487	319	2,219		
BRISTOL (9882)	74	162.93	423.43	1,147,907	2,711	12,057		
CAVERNS ROAD (4)	1	105.00	105.00	156,240	1,488	105		
COLLEGE (9982)	66	438.08	195.50	383,374	1,961	28,913		
COTTONDALE (9866)	110	437.78	293.42	855,896	2,917	48,156		
DOGWOOD HEIGHTS (9722)	27	651.85	486.62	277,373	570	17,600		
FAMILY DOLLAR (9782)	1	35.00	35.00	875	25	35		
GREENWOOD (9742)	97	361.81	245.68	1,157,157	4,710	35,096		
HOSPITAL (9872)	56	459.30	233.19	438,158	1,879	25,721		
HWY 90E (9942)	60	320.95	286.37	572,737	2,000	19,257		
HWY 90W (9992)	35	426.94	328.31	410,714	1,251	14,943		
INDIAN SPRINGS (9932)	63	276.54	329.85	682,797	2,070	17,422		
INDUSTRIAL PARK (9752)	6	191.17	191.17	1,147	6	1,147		
PRISON (9732)	4	630.50	347.50	2,780	8	2,522		
RAILROAD (9512)	47	493.74	191.07	223,173	1,168	23,206		
SOUTH STREET (9854)	146	251.51	389.17	2,047,060	5,260	36,720		
Grand Total	906	344.08	301.82	9,804,036	32,483	311,734	788.61	2.61

Total No. of Customers at end of 2021 ==>

12,432

2021 - Reliability Indicators By Feeder FPUC - NW (Adjusted)

Cause	Number of Outage Events (N)	Average Duration (L-Bar)	CAIDI	Sum of all Customer Min. Interrupted (CMI)	Total Customer Interruptions (CI)	Total Outage Duration (L)	SAIDI	SAIFI
ALTHA (9952)	68	105.96	156.50	489,374	3,127	7,205		
BLOUNTSTOWN (9972)	11	75.09	83.96	12,006	143	826		
BRISTOL (9882)	60	87.85	70.05	128,971	1,841	5,271		
COLLEGE (9982)	48	91.94	62.36	104,507	1,676	4,413		
COTTONDALE (9866)	83	105.86	114.29	287,451	2,515	8,786		
DOGWOOD HEIGHTS (9722)	17	81.18	150.59	69,721	463	1,380		
FAMILY DOLLAR (9782)	1	35.00	35.00	875	25	35		
GREENWOOD (9742)	73	125.08	73.29	198,916	2,714	9,131		
HOSPITAL (9872)	44	90.86	84.28	144,457	1,714	3,998		
HWY 90E (9942)	37	123.78	94.37	83,238	882	4,580		
HWY 90W (9992)	27	96.74	66.57	46,131	693	2,612		
INDIAN SPRINGS (9932)	45	109.33	126.37	181,341	1,435	4,920		
INDUSTRIAL PARK (9752)	4	69.00	69.00	276	4	276		
PRISON (9732)	3	65.67	65.00	455	7	197		
RAILROAD (9512)	34	138.00	71.52	78,452	1,097	4,692		
SOUTH STREET (9854)	116	113.33	102.72	354,900	3,455	13,146		
Grand Total	671	106.51	100.09	2,181,071	21,791	71,468	175.44	1.75

Total No. of Customers at end of 2021 ==>

12,432

FPUC 2021 – Reliability Indicators and Analysis

FPUC managed to improve several reliability indicators in 2021. Both NE and NW Divisions continue to invest in its storm hardening initiatives, infrastructure improvements and system upgrades which will continue to generate reliability improvements in the future. SAIFI decreased 21.84% from 1.74 in 2020 to 1.36 in 2021. SAIDI decreased 13.37% from 157.60 in 2020 to 136.53 in 2021. The other indicators that did not show improvements were L-BAR and CAIDI. L-BAR increased 7.52% from 95.50 in 2020 to 102.68 in 2021. CAIDI increased 10.88% from 90.62 in 2020 to 100.48 in 2021. However, CAIDI improved 5.77% from the 5 year peak of 106.63 in 2018.

As FPU reviews its five year reliability indicator trends, averages and outage causes, it notes that indicators continue to be significantly influenced by the weather. This is due to FPU's relatively small territory size when compared to other large investor owned utilities within the state. A good example of this was in October of 2018 when the NW Division had the eye of Hurricane Michael demolish nearly all of its distribution system. Another good example was on September of 2017 when the NE Division had to evacuate its entire territory due to hurricane Irma. In 2021 FPU had to continue to deal with the COVID-19 pandemic impact to our personnel as several employees were not able to work due to quarantine protocol and procedures.

FPU attributes some of the reliability improvements in SAIFI and SAIDI to the implementation of the lateral protection strategy which installed cutout-mounted recloser units called TripSaver II in both divisions.

FPUC will continue to monitor all reliability indices and outage causes to adjust and improve current reliability programs.

FPUC 2021 – Description of Excluded Events for Named Storms, Transmission, Distribution, and Substations

Named Storms and Tornadoes

The NW Division was affected by tropical storm Fred and the NE Division by tropical storm Elsa. This year both NW and NE territories were not impacted by tornadoes.

Transmission and Substation

In 2021 the NE Division experienced two substation outages due to equipment failures and one 69kV line planning outage to perform insulator maintenance. However, in all cases equipment was repaired and customers' power was restored as quickly as possible. These events are noted in the Excluded Events Tables below.

The NW Division experienced one substation outage in 2021 at the Caverns Road substation due to insulator failure. This outage is excluded in the table below.

The NE and NW Divisions also had other planned outages to perform maintenance to different sections of the distribution system. These outages are noted below in the Excluded Event Tables below. In all cases, FPUC promptly dispatched crews to restore power to customers.

2021 NE Division Excluded Events					
Date	Feeder	Exclusion	Aff Cust	L	CMI
5/2/2021	PARKWAY SOUTH (104)	Substation	1009	68	68,612
5/16/2021	AMELIA ISLAND PARKWAY (312)	Planned Outage	1	71	71
5/16/2021	AMELIA ISLAND PARKWAY (312)	Planned Outage	1	71	71
5/16/2021	AMELIA ISLAND PARKWAY (312)	Planned Outage	1	46	46
5/16/2021	AMELIA ISLAND PARKWAY (312)	Planned Outage	1	44	44
7/7/2021	BAILEY (311)	Named Storm (Elsa)	34	44	1,496
7/7/2021	JASMINE STREET (211)	Named Storm (Elsa)	1	55	55
7/7/2021	BAILEY (311)	Named Storm (Elsa)	1	22	22
7/7/2021	SOUTH FLETCHER (102)	Named Storm (Elsa)	1	44	44
7/7/2021	JASMINE STREET (211)	Named Storm (Elsa)	5	192	960
7/7/2021	JASMINE STREET (211)	Named Storm (Elsa)	145	143	20,735
7/7/2021	ELEVEN STREET (212)	Named Storm (Elsa)	50	178	8,900
7/7/2021	SOUTH FLETCHER (102)	Named Storm (Elsa)	1	166	166
7/7/2021	SOUTH FLETCHER (102)	Named Storm (Elsa)	1	221	221
7/8/2021	JASMINE STREET (211)	Named Storm (Elsa)	1	89	89
8/25/2021	BONNIEVIEW (310)	Substation	536	130	69,680
11/13/2021	AIP (315)	Planned Outage	5366	98	525,868

2021 NW Division Excluded Events

Date	Feeder	Exclusion	Aff Cust	L	CMI
2/10/2021	INDIAN SPRINGS (9932)	Planned Outage	5	102	510
4/7/2021	SOUTH STREET (9854)	Planned Outage	10	18	180
7/13/2021	GREENWOOD (9742)	Planned Outage	4	65	260
7/28/2021	ALTHA (9952)	Planned Outage	8	44	352
8/16/2021	BRISTOL (9882)	Named Storm (Fred)	33	50	1,650
8/16/2021	ALTHA (9952)	Named Storm (Fred)	5	60	300
8/16/2021	ALTHA (9952)	Named Storm (Fred)	1	34	34
8/16/2021	COTTONDALE (9866)	Named Storm (Fred)	2	79	158
8/16/2021	INDIAN SPRINGS (9932)	Named Storm (Fred)	69	41	2,829
8/16/2021	COLLEGE (9982)	Named Storm (Fred)	21	79	1,659
8/16/2021	GREENWOOD (9742)	Named Storm (Fred)	5	45	225
8/16/2021	HWY 90E (9942)	Named Storm (Fred)	768	313	240,384
8/16/2021	ALTHA (9952)	Named Storm (Fred)	508	1,295	657,860
8/16/2021	RAILROAD (9512)	Named Storm (Fred)	1	870	870
8/16/2021	RAILROAD (9512)	Named Storm (Fred)	1	37	37
8/16/2021	INDIAN SPRINGS (9932)	Named Storm (Fred)	37	1,375	50,875
8/16/2021	BRISTOL (9882)	Named Storm (Fred)	1	26	26
8/16/2021	ALTHA (9952)	Named Storm (Fred)	5	1,186	5,930
8/16/2021	COLLEGE (9982)	Named Storm (Fred)	8	1,107	8,856
8/16/2021	BRISTOL (9882)	Named Storm (Fred)	768	1,221	937,728
8/16/2021	HOSPITAL (9872)	Named Storm (Fred)	82	1,513	124,066
8/16/2021	COTTONDALE (9866)	Named Storm (Fred)	35	2,405	84,175
8/16/2021	GREENWOOD (9742)	Named Storm (Fred)	654	906	592,524
8/16/2021	COLLEGE (9982)	Named Storm (Fred)	23	1,174	27,002
8/16/2021	ALTHA (9952)	Named Storm (Fred)	2	1,713	3,426
8/16/2021	GREENWOOD (9742)	Named Storm (Fred)	54	980	52,920
8/16/2021	COTTONDALE (9866)	Named Storm (Fred)	25	1,393	34,825
8/16/2021	INDIAN SPRINGS (9932)	Named Storm (Fred)	18	385	6,930
8/16/2021	INDIAN SPRINGS (9932)	Named Storm (Fred)	22	1,576	34,672
8/16/2021	RAILROAD (9512)	Named Storm (Fred)	8	2,956	23,648
8/16/2021	BLOUNTSTOWN (9972)	Named Storm (Fred)	174	856	148,944
8/16/2021	BRISTOL (9882)	Named Storm (Fred)	58	1,299	75,342
8/16/2021	ALTHA (9952)	Named Storm (Fred)	1	3,784	3,784
8/16/2021	COTTONDALE (9866)	Named Storm (Fred)	31	1,303	40,393
8/16/2021	COTTONDALE (9866)	Named Storm (Fred)	15	1,423	21,345
8/16/2021	COTTONDALE (9866)	Named Storm (Fred)	15	1,415	21,225
8/16/2021	HOSPITAL (9872)	Named Storm (Fred)	16	2,693	43,088
8/16/2021	COTTONDALE (9866)	Named Storm (Fred)	30	1,239	37,170
8/16/2021	HWY 90W (9992)	Named Storm (Fred)	56	2,495	139,720
8/16/2021	COTTONDALE (9866)	Named Storm (Fred)	47	2,863	134,561
8/16/2021	COTTONDALE (9866)	Named Storm (Fred)	1	1,573	1,573
8/16/2021	COTTONDALE (9866)	Named Storm (Fred)	4	1,406	5,624
8/16/2021	PRISON (9732)	Named Storm (Fred)	1	2,325	2,325
8/16/2021	HWY 90W (9992)	Named Storm (Fred)	6	2,399	14,394
8/16/2021	INDIAN SPRINGS (9932)	Named Storm (Fred)	327	882	288,414
8/16/2021	SOUTH STREET (9854)	Named Storm (Fred)	1413	1,017	1,437,021
8/16/2021	COLLEGE (9982)	Named Storm (Fred)	155	827	128,185
8/16/2021	COTTONDALE (9866)	Named Storm (Fred)	1	2,947	2,947
8/16/2021	GREENWOOD (9742)	Named Storm (Fred)	1	2,299	2,299
8/16/2021	COTTONDALE (9866)	Named Storm (Fred)	16	1,518	24,288
8/16/2021	COTTONDALE (9866)	Named Storm (Fred)	20	1,553	31,060

8/16/2021	COTTONDALE (9866)	Named Storm (Fred)	42	1,150	48,300
8/16/2021	RAILROAD (9512)	Named Storm (Fred)	1	2,883	2,883
8/16/2021	COTTONDALE (9866)	Named Storm (Fred)	14	1,500	21,000
8/16/2021	DOGWOOD HEIGHTS (9722)	Named Storm (Fred)	18	1,526	27,468
8/16/2021	RAILROAD (9512)	Named Storm (Fred)	1	2,862	2,862
8/16/2021	RAILROAD (9512)	Named Storm (Fred)	10	2,711	27,110
8/16/2021	HWY 90W (9992)	Named Storm (Fred)	2	3,038	6,076
8/16/2021	COTTONDALE (9866)	Named Storm (Fred)	1	2,866	2,866
8/16/2021	ALTHA (9952)	Named Storm (Fred)	3	1,046	3,138
8/16/2021	COLLEGE (9982)	Named Storm (Fred)	1	2,568	2,568
8/16/2021	HOSPITAL (9872)	Named Storm (Fred)	14	1,456	20,384
8/16/2021	RAILROAD (9512)	Named Storm (Fred)	32	2,292	73,344
8/16/2021	ALTHA (9952)	Named Storm (Fred)	24	971	23,304
8/16/2021	COLLEGE (9982)	Named Storm (Fred)	11	772	8,492
8/16/2021	COLLEGE (9982)	Named Storm (Fred)	26	1,005	26,130
8/16/2021	HWY 90W (9992)	Named Storm (Fred)	82	1,580	129,560
8/16/2021	INDIAN SPRINGS (9932)	Named Storm (Fred)	2	1,287	2,574
8/16/2021	DOGWOOD HEIGHTS (9722)	Named Storm (Fred)	10	1,377	13,770
8/16/2021	GREENWOOD (9742)	Named Storm (Fred)	27	2,226	60,102
8/16/2021	INDIAN SPRINGS (9932)	Named Storm (Fred)	25	2,069	51,725
8/16/2021	COLLEGE (9982)	Named Storm (Fred)	4	743	2,972
8/16/2021	COLLEGE (9982)	Named Storm (Fred)	10	2,367	23,670
8/16/2021	COLLEGE (9982)	Named Storm (Fred)	1	2,506	2,506
8/16/2021	DOGWOOD HEIGHTS (9722)	Named Storm (Fred)	45	2,504	112,680
8/16/2021	INDIAN SPRINGS (9932)	Named Storm (Fred)	10	1,168	11,680
8/16/2021	COTTONDALE (9866)	Named Storm (Fred)	18	1,338	24,084
8/16/2021	DOGWOOD HEIGHTS (9722)	Named Storm (Fred)	25	1,438	35,950
8/16/2021	INDIAN SPRINGS (9932)	Named Storm (Fred)	9	1,340	12,060
8/16/2021	COTTONDALE (9866)	Named Storm (Fred)	1	1,329	1,329
8/16/2021	COTTONDALE (9866)	Named Storm (Fred)	1	2,788	2,788
8/16/2021	HOSPITAL (9872)	Named Storm (Fred)	31	2,191	67,921
8/16/2021	SOUTH STREET (9854)	Named Storm (Fred)	1	835	835
8/16/2021	GREENWOOD (9742)	Named Storm (Fred)	1	2,163	2,163
8/16/2021	BRISTOL (9882)	Named Storm (Fred)	1	2,705	2,705
8/16/2021	INDIAN SPRINGS (9932)	Named Storm (Fred)	30	1,128	33,840
8/16/2021	GREENWOOD (9742)	Named Storm (Fred)	1	2,120	2,120
8/16/2021	ALTHA (9952)	Named Storm (Fred)	3	767	2,301
8/16/2021	SOUTH STREET (9854)	Named Storm (Fred)	1	826	826
8/16/2021	RAILROAD (9512)	Named Storm (Fred)	9	1,249	11,241
8/16/2021	HWY 90E (9942)	Named Storm (Fred)	42	5	210
8/16/2021	HWY 90E (9942)	Named Storm (Fred)	75	1,196	89,700
8/16/2021	HWY 90E (9942)	Named Storm (Fred)	1	1,200	1,200
8/16/2021	COTTONDALE (9866)	Named Storm (Fred)	8	2,039	16,312
8/16/2021	HWY 90E (9942)	Named Storm (Fred)	1	1,184	1,184
8/16/2021	COLLEGE (9982)	Named Storm (Fred)	12	2,698	32,376
8/16/2021	ALTHA (9952)	Named Storm (Fred)	6	846	5,076
8/16/2021	HWY 90E (9942)	Named Storm (Fred)	28	1,146	32,088
8/16/2021	GREENWOOD (9742)	Named Storm (Fred)	4	2,556	10,224
8/16/2021	HWY 90E (9942)	Named Storm (Fred)	1	1,122	1,122
8/17/2021	HOSPITAL (9872)	Named Storm (Fred)	1	2,645	2,645

8/17/2021	HWY 90E (9942)	Named Storm (Fred)	18	1,079	19,422
8/17/2021	GREENWOOD (9742)	Named Storm (Fred)	1	1,704	1,704
8/17/2021	GREENWOOD (9742)	Named Storm (Fred)	1	1,695	1,695
8/17/2021	ALTHA (9952)	Named Storm (Fred)	3	368	1,104
8/17/2021	HOSPITAL (9872)	Named Storm (Fred)	1	2,217	2,217
8/17/2021	INDIAN SPRINGS (9932)	Named Storm (Fred)	1	635	635
8/17/2021	HWY 90E (9942)	Named Storm (Fred)	135	667	90,045
8/17/2021	HOSPITAL (9872)	Named Storm (Fred)	4	2,220	8,880
8/17/2021	GREENWOOD (9742)	Named Storm (Fred)	1	1,535	1,535
8/17/2021	RAILROAD (9512)	Named Storm (Fred)	1	2,201	2,201
8/17/2021	GREENWOOD (9742)	Named Storm (Fred)	1	1,585	1,585
8/17/2021	HOSPITAL (9872)	Named Storm (Fred)	1	1,830	1,830
8/17/2021	ALTHA (9952)	Named Storm (Fred)	1	88	88
8/17/2021	COTTONDALE (9866)	Named Storm (Fred)	1	1,468	1,468
8/17/2021	BLOUNTSTOWN (9972)	Named Storm (Fred)	1	15	15
8/17/2021	HWY 90E (9942)	Named Storm (Fred)	1	593	593
8/17/2021	DOGWOOD HEIGHTS (9722)	Named Storm (Fred)	1	2,184	2,184
8/17/2021	DOGWOOD HEIGHTS (9722)	Named Storm (Fred)	1	2,178	2,178
8/17/2021	GREENWOOD (9742)	Named Storm (Fred)	76	1,396	106,096
8/17/2021	INDIAN SPRINGS (9932)	Named Storm (Fred)	58	52	3,016
8/17/2021	DOGWOOD HEIGHTS (9722)	Named Storm (Fred)	4	2,803	11,212
8/17/2021	DOGWOOD HEIGHTS (9722)	Named Storm (Fred)	1	1,747	1,747
8/17/2021	INDIAN SPRINGS (9932)	Named Storm (Fred)	7	139	973
8/17/2021	HOSPITAL (9872)	Named Storm (Fred)	1	2,054	2,054
8/17/2021	SOUTH STREET (9854)	Named Storm (Fred)	8	1,718	13,744
8/17/2021	INDIAN SPRINGS (9932)	Named Storm (Fred)	9	44	396
8/17/2021	GREENWOOD (9742)	Named Storm (Fred)	52	121	6,292
8/17/2021	SOUTH STREET (9854)	Named Storm (Fred)	1	1,857	1,857
8/17/2021	HWY 90W (9992)	Named Storm (Fred)	2	2,167	4,334
8/17/2021	HOSPITAL (9872)	Named Storm (Fred)	2	423	846
8/17/2021	INDIAN SPRINGS (9932)	Named Storm (Fred)	4	16	64
8/17/2021	GREENWOOD (9742)	Named Storm (Fred)	5	1,299	6,495
8/17/2021	ALTHA (9952)	Named Storm (Fred)	2	117	234
8/17/2021	HOSPITAL (9872)	Named Storm (Fred)	10	1,851	18,510
8/17/2021	ALTHA (9952)	Named Storm (Fred)	5	12	60
8/17/2021	BLOUNTSTOWN (9972)	Named Storm (Fred)	1	522	522
8/17/2021	HWY 90E (9942)	Named Storm (Fred)	1	390	390
8/17/2021	SOUTH STREET (9854)	Named Storm (Fred)	7	1,748	12,236
8/17/2021	SOUTH STREET (9854)	Named Storm (Fred)	54	1,546	83,484
8/17/2021	SOUTH STREET (9854)	Named Storm (Fred)	27	1,606	43,362
8/17/2021	COLLEGE (9982)	Named Storm (Fred)	1	1,924	1,924
8/17/2021	SOUTH STREET (9854)	Named Storm (Fred)	1	1,305	1,305
8/17/2021	COLLEGE (9982)	Named Storm (Fred)	1	1,590	1,590
8/17/2021	SOUTH STREET (9854)	Named Storm (Fred)	43	585	25,155
8/17/2021	GREENWOOD (9742)	Named Storm (Fred)	2	1,285	2,570
8/17/2021	SOUTH STREET (9854)	Named Storm (Fred)	1	1,881	1,881
8/17/2021	GREENWOOD (9742)	Named Storm (Fred)	1	1,200	1,200
8/17/2021	SOUTH STREET (9854)	Named Storm (Fred)	14	1,679	23,506
8/17/2021	COLLEGE (9982)	Named Storm (Fred)	1	2,632	2,632
8/17/2021	SOUTH STREET (9854)	Named Storm (Fred)	4	1,483	5,932

8/17/2021	BRISTOL (9882)	Named Storm (Fred)	1	165	165
8/17/2021	COLLEGE (9982)	Named Storm (Fred)	3	1,229	3,687
8/17/2021	INDIAN SPRINGS (9932)	Named Storm (Fred)	1	7	7
8/17/2021	ALTHA (9952)	Named Storm (Fred)	1	1,481	1,481
8/17/2021	ALTHA (9952)	Named Storm (Fred)	255	223	56,865
8/17/2021	ALTHA (9952)	Named Storm (Fred)	28	356	9,968
8/17/2021	ALTHA (9952)	Named Storm (Fred)	10	61	610
8/17/2021	SOUTH STREET (9854)	Named Storm (Fred)	3	1,042	3,126
8/17/2021	BRISTOL (9882)	Named Storm (Fred)	1	113	113
8/17/2021	ALTHA (9952)	Named Storm (Fred)	25	198	4,950
8/17/2021	SOUTH STREET (9854)	Named Storm (Fred)	15	411	6,165
8/17/2021	COLLEGE (9982)	Named Storm (Fred)	4	1,106	4,424
8/17/2021	COTTONDALE (9866)	Named Storm (Fred)	1	992	992
8/17/2021	BRISTOL (9882)	Named Storm (Fred)	1	45	45
8/17/2021	BRISTOL (9882)	Named Storm (Fred)	1	100	100
8/17/2021	BRISTOL (9882)	Named Storm (Fred)	1	158	158
8/17/2021	SOUTH STREET (9854)	Named Storm (Fred)	1	1,129	1,129
8/17/2021	ALTHA (9952)	Named Storm (Fred)	7	7	49
8/17/2021	HWY 90E (9942)	Named Storm (Fred)	10	81	810
8/17/2021	ALTHA (9952)	Named Storm (Fred)	4	943	3,772
8/17/2021	BRISTOL (9882)	Named Storm (Fred)	1	165	165
8/17/2021	HWY 90E (9942)	Named Storm (Fred)	11	130	1,430
8/17/2021	HWY 90E (9942)	Named Storm (Fred)	1	2,566	2,566
8/17/2021	HWY 90E (9942)	Named Storm (Fred)	1	1,371	1,371
8/17/2021	BRISTOL (9882)	Named Storm (Fred)	1	98	98
8/17/2021	HWY 90E (9942)	Named Storm (Fred)	1	80	80
8/17/2021	ALTHA (9952)	Named Storm (Fred)	1	860	860
8/17/2021	ALTHA (9952)	Named Storm (Fred)	2	1,174	2,348
8/17/2021	ALTHA (9952)	Named Storm (Fred)	2	703	1,406
8/18/2021	HWY 90E (9942)	Named Storm (Fred)	3	545	1,635
8/18/2021	ALTHA (9952)	Named Storm (Fred)	2	244	488
8/18/2021	GREENWOOD (9742)	Named Storm (Fred)	2	39	78
8/18/2021	COTTONDALE (9866)	Named Storm (Fred)	1	1,572	1,572
8/18/2021	INDUSTRIAL PARK (9752)	Named Storm (Fred)	1	660	660
8/18/2021	SOUTH STREET (9854)	Named Storm (Fred)	1	686	686
8/18/2021	COTTONDALE (9866)	Named Storm (Fred)	6	327	1,962
8/18/2021	COTTONDALE (9866)	Named Storm (Fred)	1	501	501
8/18/2021	SOUTH STREET (9854)	Named Storm (Fred)	6	554	3,324
8/18/2021	BRISTOL (9882)	Named Storm (Fred)	1	319	319
8/18/2021	HWY 90W (9992)	Named Storm (Fred)	51	515	26,265
8/18/2021	HWY 90E (9942)	Named Storm (Fred)	1	44	44
8/18/2021	BRISTOL (9882)	Named Storm (Fred)	1	322	322
8/18/2021	HWY 90E (9942)	Named Storm (Fred)	5	5	25
8/18/2021	SOUTH STREET (9854)	Named Storm (Fred)	1	324	324
8/18/2021	SOUTH STREET (9854)	Named Storm (Fred)	1	321	321
8/18/2021	GREENWOOD (9742)	Named Storm (Fred)	1	312	312
8/18/2021	HWY 90E (9942)	Named Storm (Fred)	1	28	28
8/18/2021	ALTHA (9952)	Named Storm (Fred)	1	170	170
8/18/2021	SOUTH STREET (9854)	Named Storm (Fred)	54	250	13,500
8/18/2021	ALTHA (9952)	Named Storm (Fred)	1	425	425
8/18/2021	HWY 90E (9942)	Named Storm (Fred)	1	133	133
8/18/2021	SOUTH STREET (9854)	Named Storm (Fred)	1	194	194
8/18/2021	DOGWOOD HEIGHTS	Named Storm (Fred)	1	96	96

	(9722)				
8/18/2021	DOGWOOD HEIGHTS (9722)	Named Storm (Fred)	1	367	367
8/18/2021	HWY 90E (9942)	Named Storm (Fred)	11	424	4,664
8/18/2021	GREENWOOD (9742)	Named Storm (Fred)	1	141	141
8/18/2021	GREENWOOD (9742)	Named Storm (Fred)	1	136	136
8/18/2021	INDIAN SPRINGS (9932)	Named Storm (Fred)	1	256	256
8/18/2021	COLLEGE (9982)	Named Storm (Fred)	2	21	42
8/18/2021	RAILROAD (9512)	Named Storm (Fred)	4	24	96
8/18/2021	SOUTH STREET (9854)	Named Storm (Fred)	4	44	176
8/18/2021	ALTHA (9952)	Named Storm (Fred)	1	30	30
8/18/2021	SOUTH STREET (9854)	Named Storm (Fred)	38	156	5,928
8/19/2021	HOSPITAL (9872)	Named Storm (Fred)	2	630	1,260
8/19/2021	SOUTH STREET (9854)	Named Storm (Fred)	5	145	725
8/19/2021	INDUSTRIAL PARK (9752)	Named Storm (Fred)	1	211	211
8/19/2021	ALTHA (9952)	Named Storm (Fred)	95	55	5,225
8/19/2021	RAILROAD (9512)	Named Storm (Fred)	1	159	159
8/19/2021	COTTONDALE (9866)	Named Storm (Fred)	1	295	295
8/19/2021	RAILROAD (9512)	Named Storm (Fred)	1	118	118
8/19/2021	RAILROAD (9512)	Named Storm (Fred)	1	152	152
8/19/2021	HWY 90E (9942)	Named Storm (Fred)	1	375	375
8/19/2021	ALTHA (9952)	Named Storm (Fred)	1	149	149
8/19/2021	GREENWOOD (9742)	Named Storm (Fred)	1	61	61
8/19/2021	SOUTH STREET (9854)	Named Storm (Fred)	1	64	64
8/19/2021	COLLEGE (9982)	Named Storm (Fred)	1	152	152
8/19/2021	SOUTH STREET (9854)	Named Storm (Fred)	35	108	3,780
8/31/2021	SOUTH STREET (9854)	Named Storm (Fred)	1	16	16
9/27/2021	HWY 90W (9992)	Planned Outage	325	136	44,200
9/27/2021	HWY 90W (9992)	Planned Outage	34	1	34
10/11/2021	COTTONDALE (9866)	Planned Outage	64	88	5,632
12/9/2021	CAVERNS ROAD (4)	Planned Outage	1488	105	156,240
12/9/2021	SOUTH STREET (9854)	Planned Outage	53	26	1,378
12/26/2021	GREENWOOD (9742)	Substation	1099	96	105,504