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March 1, 2021

E-PORTAL FILING

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


Re: 20210000-OT – Undocketed Filings for 2021.

Dear Mr. Teitzman:

Attached for filing on behalf of Florida Public Utilities Company, please find the Company's 2021 Distribution Reliability Report for the prior period 2020, including the Annual Wood Pole Inspection Report, and updates of FPUC's Storm Hardening Plan and Ten Storm Preparedness Initiatives.

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,



Beth Keating
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
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www.fpuc.com**

March 1, 2021

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 2020 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, 2021.

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

Sincerely,

A handwritten signature in blue ink that reads "Michael Cassel".

Michael Cassel
Director, Business Management & Analysis
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)

2020 Annual Update

March 1, 2021



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, 2021. 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), MAIFIe 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: 2020
Cause (a)	Number of Outage Events(N) (b)	Average Duration (L-Bar) (c)	Average Restoration Time (CAIDI) (d)
Unknown	100	106.28	107.70
Vegetation	91	91.39	84.42
Defective Equipment	86	104.77	60.60
Animal	65	57.85	67.50
Lightning	21	118.41	130.47
Other	13	77.93	54.45
Other Weather	12	164.03	207.49
Vehicle	7	109.37	240.59
Transmission	6	113.12	178.61
Planned Outage	4	19.50	36.72
System Totals NE	405	95.57	125.10

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: 2020
Cause (a)	Number of Outage Events(N) (b)	Average Duration (L-Bar) (c)	Average Restoration Time (CAIDI) (d)
Unknown	100	106.28	107.70
Vegetation	91	91.39	84.42
Defective Equipment	86	104.77	60.60
Animal	65	57.85	67.50
Lightning	21	118.41	130.47
Other	13	77.93	54.45
Other Weather	12	164.03	207.49
Vehicle	7	109.37	240.59
System Totals NE	395	96.07	83.32

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: 2020
Cause (a)	Number of Outage Events(N) (b)	Average Duration (L-Bar) (c)	Average Restoration Time (CAIDI) (d)
Vegetation	285	90.60	77.78
Tornado-Severe Weather	244	552.92	325.62
Animal	98	67.26	69.80
Lightning	81	103.89	106.02
Defective Equipment	65	122.43	102.61
Unknown	63	70.41	98.39
Other Weather	63	126.73	169.97
Named Storm	49	122.37	135.81
Vehicle	29	141.25	109.56
Other	23	86.83	159.91
Planned Outage	10	27.39	22.99
Substation	1	192.43	192.43
System Totals: NW	1,011	206.40	181.05

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: 2020	
Cause (a)	Number of Outage Events(N) (b)	Average Duration (L-Bar) (c)	Average Restoration Time (CAIDI) (d)
Vegetation	285	90.60	77.78
Animal	98	67.26	69.80
Lightning	81	103.89	106.02
Defective Equipment	65	122.43	102.61
Unknown	63	70.41	98.39
Other Weather	63	126.73	169.97
Vehicle	29	141.25	109.56
Other	23	86.83	159.91
System Totals: NW	707	95.19	97.50

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: 2020
Cause (a)	Number of Outage Events(N) (b)	Average Duration (L-Bar) (c)	Average Restoration Time (CAIDI) (d)
Vegetation	376	90.79	80.16
Tornado-Severe Weather	244	552.92	325.62
Animal	163	63.51	68.68
Unknown	163	92.42	102.43
Defective Equipment	151	112.37	63.07
Lightning	102	106.88	122.04
Other Weather	75	132.69	173.70
Named Storm	49	122.37	135.81
Vehicle	36	135.05	112.12
Other	36	83.61	98.54
Planned Outage	14	25.14	33.35
Transmission	6	113.12	178.61
Substation	1	192.43	192.43
System Totals FPUC	1,416	174.70	150.63

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: 2020
Cause (a)	Number of Outage Events(N) (b)	Average Duration (L-Bar) (c)	Average Restoration Time (CAIDI) (d)
Vegetation	376	90.79	80.16
Animal	163	63.51	68.68
Unknown	163	92.42	102.43
Defective Equipment	151	112.37	63.07
Lightning	102	106.88	122.04
Other Weather	75	132.69	173.70
Vehicle	36	135.05	112.12
Other	36	83.61	98.54
System Totals FPUC	1,102	95.50	90.62

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

PART II

<u>THREE PERCENT FEEDER LIST – ACTUAL</u>													
Utility Name: <u>Florida Public Utilities Company</u>											Year: <u>2020</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)	Total (h)						
211	J L Terry	Northeast	1,876	15	0	0	1,891	3	54.91	57.68	NO	0	N/A
9866	Cottdonale	Northwest	1,172	257	0	0	1,429	5	191.07	191.01	NO	0	N/A

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

PART II

<u>THREE PERCENT FEEDER LIST – ADJUSTED</u>													
Utility Name: <u>Florida Public Utilities Company</u>											Year: <u>2020</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)	Total (h)						
211	JL Terry	Northeast	1,876	15	0	0	1,891	3	54.91	57.68	NO	0	N/A
9866	Cottdonale	Northwest	1,172	257	0	0	1,429	2	131.01	131.21	NO	0	N/A

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

PART III

<u>SYSTEM RELIABILITY INDICES – ACTUAL</u>					
Utility Name: Florida Public Utilities Company			Year: 2020		
District or Service Area (a)	SAIDI (b)	CAIDI (c)	SAIFI (d)	MAIFle (e)	CEMI5 (f)
NE Division	445.19	125.10	3.56	N/A*	N/A*
NW Division	756.80	181.05	4.18	N/A*	N/A*
System Averages	575.03	150.63	3.82	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: <u>Florida Public Utilities Company</u>				Year: <u>2020</u>	
District or Service Area (a)	SAIDI (b)	CAIDI (c)	SAIFI (d)	MAIFle (e)	CEMI5 (f)
NE Division	120.58	83.32	1.45	N/A*	N/A*
NW Division	209.43	97.50	2.15	N/A*	N/A*
System Averages	157.60	90.62	1.74	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

2020 - 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)	3	112.98	112.63	1,882,000	16,710	339		
AMELIA ISLAND	1	215.63	215.63	3,623,718	16,805	216		
AMELIA ISLAND PARKWAY (312)	17	113.94	104.95	126,889	1,209	1,937		
BAILEY (311)	61	70.56	37.25	267,456	7,180	4,304		
BONNIEVIEW (310)	23	73.19	101.48	63,524	626	1,683		
CLINCH DRIVE (214)	34	72.47	93.25	71,429	766	2,464		
ELEVEN STREET (212)	45	132.63	116.55	304,662	2,614	5,968		
FIFTEENTH STREET (209)	23	108.00	96.23	12,895	134	2,484		
JASMINE STREET (211)	70	94.72	84.88	930,615	10,964	6,630		
JL TERRY (202)	2	70.48	70.48	141	2	141		
NECTARINE (210)	17	83.09	72.58	24,023	331	1,412		
PARKWAY SOUTH (104)	1	131.10	131.10	131	1	131		
PLANTATION FIELDSIDE (111)	12	133.71	94.46	20,970	222	1,605		
PLANTATION ROADSIDE (110)	15	130.35	296.05	99,474	336	1,955		
SADLER NECTARINE SO.14TH (215)	18	84.97	96.62	27,247	282	1,529		
SOUTH FLETCHER (102)	63	93.74	62.20	174,407	2,804	5,906		
Totals	405	95.57	125.10	7,629,581	60,986	38,705	445.19	3.56

Total No. of Customers at end of 2020==>

17,138

2020 - 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)	17	113.94	104.95	126,889	1,209	1,937		
BAILEY (311)	61	70.56	37.25	267,456	7,180	4,304		
BONNIEVIEW (310)	23	73.19	101.48	63,524	626	1,683		
CLINCH DRIVE (214)	33	74.44	93.36	71,422	765	2,457		
ELEVEN STREET (212)	45	132.63	116.55	304,662	2,614	5,968		
FIFTEENTH STREET (209)	23	108.00	96.23	12,895	134	2,484		
JASMINE STREET (211)	69	95.81	90.09	915,094	10,157	6,611		
NECTARINE (210)	17	83.09	72.58	24,023	331	1,412		
PARKWAY SOUTH (104)	1	131.10	131.10	131	1	131		
PLANTATION FIELDSIDE (111)	12	133.71	94.46	20,970	222	1,605		
PLANTATION ROADSIDE (110)	15	130.35	296.05	99,474	336	1,955		
SADLER NECTARINE SO.14TH (215)	17	89.26	96.92	27,235	281	1,517		
SOUTH FLETCHER (102)	62	94.89	140.52	132,650	944	5,883		
Totals	395	96.07	83.32	2,066,425	24,800	37,948	120.58	1.45

Total No. of Customers at end of 2020 ==>

17,138

2020 - 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)	86	223.59	155.12	627,763	4,047	19,229		
BLOUNTSTOWN (9972)	16	182.18	60.92	21,199	348	2,915		
BRISTOL (9882)	75	126.35	117.03	575,929	4,921	9,476		
COLLEGE (9982)	110	189.35	173.49	1,327,924	7,654	20,829		
COTTONDALE (9866)	141	178.55	192.16	1,952,971	10,163	25,176		
DOGWOOD HEIGHTS (9722)	26	179.45	118.90	100,114	842	4,666		
FAMILY DOLLAR (9782)	2	102.38	77.11	2,005	26	205		
GREENWOOD (9742)	84	234.57	108.63	553,701	5,097	19,704		
HOSPITAL (9872)	89	270.60	310.96	1,123,506	3,613	24,083		
HWY 90E (9942)	68	239.34	134.91	255,790	1,896	16,275		
HWY 90W (9992)	46	118.22	138.86	523,925	3,773	5,438		
INDIAN SPRINGS (9932)	75	243.28	284.29	1,078,328	3,793	18,246		
INDUSTRIAL PARK (9752)	8	179.49	179.49	1,436	8	1,436		
PRISON (9732)	11	175.82	408.74	75,208	184	1,934		
RAILROAD (9512)	35	352.72	190.24	78,760	414	12,345		
SOUTH STREET (9854)	139	192.19	219.98	966,152	4,392	26,714		
Grand Total	1,011	206.40	181.05	9,264,710	51,171	208,671	756.80	4.18

Total No. of Customers at end of 2020==>

12,242

2020 - 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)	62	105.32	65.72	182,714	2,780	6,530		
BLOUNTSTOWN (9972)	11	99.49	45.31	13,413	296	1,094		
BRISTOL (9882)	61	96.20	104.73	303,505	2,898	5,868		
COLLEGE (9982)	78	82.30	58.20	152,013	2,612	6,420		
COTTONDALE (9866)	98	99.76	121.47	545,885	4,494	9,777		
DOGWOOD HEIGHTS (9722)	17	90.66	91.22	16,238	178	1,541		
FAMILY DOLLAR (9782)	2	102.38	77.11	2,005	26	205		
GREENWOOD (9742)	67	104.24	85.50	367,833	4,302	6,984		
HOSPITAL (9872)	57	93.15	102.37	190,201	1,858	5,310		
HWY 90E (9942)	41	106.15	103.52	79,606	769	4,352		
HWY 90W (9992)	37	71.81	109.12	196,087	1,797	2,657		
INDIAN SPRINGS (9932)	51	110.35	166.20	352,017	2,118	5,628		
INDUSTRIAL PARK (9752)	5	118.99	118.99	595	5	595		
PRISON (9732)	9	70.82	48.43	3,535	73	637		
RAILROAD (9512)	19	96.31	92.76	27,179	293	1,830		
SOUTH STREET (9854)	92	85.53	72.94	131,066	1,797	7,869		
Grand Total	707	95.19	97.50	2,563,893	26,296	67,298	105.32	65.72

Total No. of Customers at end of 2020==>

12,242

FPUC 2020 – Reliability Indicators and Analysis

FPUC managed to improve several reliability indicators in 2020. 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. CADI decreased 7.22% from 97.67 in 2019 to 90.62 in 2020. L-BAR decreased 5.46% from 101.02 in 2019 to 95.50 in 2020. SADI decreased 5.30% from 166.42 in 2019 to 157.60 in 2020. The only indicator that did not show improvement was SAFI which increased 2.35% from 1.7 in 2019 to 1.74 in 2020. However, SAIFI improved 10.77% from the 5 year peak of 1.95 in 2016.

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 2020 FPU had 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.

FPUC will continue to monitor all reliability indices and outage causes to adjust and improve current reliability programs. In 2021, FPU is planning to continue implementing its lateral protection strategy by installing cutout-mounted recloser units to continue to improve reliability.

FPUC 2020 – Description of Excluded Events for Named Storms, Transmission, Distribution, and Substations

Named Storms and Tornados

The NW Division was affected by hurricanes Sally and Zeta. In addition, several tornados with severe weather impacted the NW territory. This year the NE territory was not impacted by named storms or tornados.

Transmission and Substation

In 2020 the NE Division experienced several 138 and 69KV transmission outages which were due to equipment failures. In one of the 138KV events a contractor accidentally created a fault which interrupted complete power flow to the entire island. 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.

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The NW Division experienced one substation outage in 2020 at the Blountstown substation which caused an outage of our Bristol feeder. This was due to a tree falling at the City of Blountstown feeder. These outages are excluded in the table below.

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

2020 NE Division Excluded Events					
Date	Feeder	Exclusion	Aff Cust	L	CMI
1/17/2020	AIP (315)	Transmission	5536	245	1,357,335
1/24/2020	AIP (315)	Planned Outage	5535	39	217,433
6/9/2020	CLINCH DRIVE (214)	Planned Outage	1	7	7
8/9/2020	JL TERRY (202)	Transmission	1	44	44
9/23/2020	SADLER NECTARINE SO.14TH (215)	Planned Outage	1	12	12
9/25/2020	JL TERRY (202)	Transmission	1	97	97
10/6/2020	AIP (315)	Transmission	5639	54	307,232
10/6/2020	SOUTH FLETCHER (102)	Transmission	1860	22	41,757
10/19/2020	AMELIA ISLAND	Transmission	16805	216	3,623,718
11/9/2020	JASMINE STREET (211)	Planned Outage	807	19	15,521

2020 NW Division Excluded Events					
Date	Feeder	Exclusion	Aff Cust	L	CMI
1/2/2020	INDIAN SPRINGS (9932)	Planned Outage	2	52	104
2/6/2020	COTTONDALE (9866)	Tornado-Severe Weather	1404	410	575,640
2/6/2020	RAILROAD (9512)	Tornado-Severe Weather	7	321	2,247
2/6/2020	COTTONDALE (9866)	Tornado-Severe Weather	14	419	5,861
2/6/2020	DOGWOOD HEIGHTS (9722)	Tornado-Severe Weather	284	106	30,038
2/6/2020	COLLEGE (9982)	Tornado-Severe Weather	1165	99	115,684
2/6/2020	INDIAN SPRINGS (9932)	Tornado-Severe Weather	33	346	11,418
2/6/2020	RAILROAD (9512)	Tornado-Severe	69	172	11,837

		Weather			
2/6/2020	HWY 90E (9942)	Tornado-Severe Weather	8	182	1,456
2/6/2020	COTTONDALE (9866)	Tornado-Severe Weather	11	339	3,727
2/6/2020	HWY 90E (9942)	Tornado-Severe Weather	41	137	5,617
2/6/2020	COLLEGE (9982)	Tornado-Severe Weather	1165	614	715,582
2/6/2020	ALTHA (9952)	Tornado-Severe Weather	1	2,112	2,112
2/6/2020	BLOUNTSTOWN (9972)	Tornado-Severe Weather	18	93	1,680
2/6/2020	HOSPITAL (9872)	Tornado-Severe Weather	193	351	67,701
2/6/2020	SOUTH STREET (9854)	Tornado-Severe Weather	349	135	47,115
2/6/2020	SOUTH STREET (9854)	Tornado-Severe Weather	11	44	486
2/6/2020	INDIAN SPRINGS (9932)	Tornado-Severe Weather	9	779	7,009
2/6/2020	SOUTH STREET (9854)	Tornado-Severe Weather	144	777	111,888
2/6/2020	DOGWOOD HEIGHTS (9722)	Tornado-Severe Weather	21	518	10,878
2/6/2020	SOUTH STREET (9854)	Tornado-Severe Weather	60	272	16,328
2/6/2020	HWY 90E (9942)	Tornado-Severe Weather	1	1,937	1,937
2/6/2020	ALTHA (9952)	Tornado-Severe Weather	552	561	309,644
2/6/2020	HOSPITAL (9872)	Tornado-Severe Weather	35	1,684	58,932
2/6/2020	GREENWOOD (9742)	Tornado-Severe Weather	1	1,860	1,860
2/6/2020	HWY 90E (9942)	Tornado-Severe Weather	1	227	227
2/6/2020	INDIAN SPRINGS (9932)	Tornado-Severe Weather	323	237	76,551
2/6/2020	BLOUNTSTOWN (9972)	Tornado-Severe Weather	6	47	281
2/6/2020	HWY 90E (9942)	Tornado-Severe Weather	18	786	14,140
2/6/2020	INDIAN SPRINGS (9932)	Tornado-Severe Weather	47	712	33,454
2/6/2020	PRISON (9732)	Tornado-Severe Weather	56	358	20,074
2/6/2020	SOUTH STREET (9854)	Tornado-Severe Weather	3	45	134
2/6/2020	RAILROAD (9512)	Tornado-Severe	8	1,807	14,457

		Weather			
2/6/2020	SOUTH STREET (9854)	Tornado-Severe Weather	349	708	247,220
2/6/2020	INDIAN SPRINGS (9932)	Tornado-Severe Weather	3	513	1,538
2/6/2020	INDIAN SPRINGS (9932)	Tornado-Severe Weather	33	510	16,821
2/6/2020	COTTONDALE (9866)	Tornado-Severe Weather	14	1,561	21,855
2/6/2020	SOUTH STREET (9854)	Tornado-Severe Weather	2	1,290	2,581
2/6/2020	COTTONDALE (9866)	Tornado-Severe Weather	28	153	4,283
2/6/2020	COTTONDALE (9866)	Tornado-Severe Weather	13	551	7,169
2/6/2020	COTTONDALE (9866)	Tornado-Severe Weather	30	535	16,050
2/6/2020	COTTONDALE (9866)	Tornado-Severe Weather	24	407	9,770
2/6/2020	HWY 90W (9992)	Tornado-Severe Weather	13	552	7,181
2/6/2020	BRISTOL (9882)	Tornado-Severe Weather	9	589	5,301
2/6/2020	GREENWOOD (9742)	Tornado-Severe Weather	10	309	3,093
2/6/2020	HOSPITAL (9872)	Tornado-Severe Weather	193	1,364	263,252
2/6/2020	HOSPITAL (9872)	Tornado-Severe Weather	22	1,384	30,448
2/6/2020	HOSPITAL (9872)	Tornado-Severe Weather	17	1,425	24,225
2/6/2020	INDIAN SPRINGS (9932)	Tornado-Severe Weather	323	384	124,032
2/6/2020	GREENWOOD (9742)	Tornado-Severe Weather	12	1,348	16,176
2/6/2020	HOSPITAL (9872)	Tornado-Severe Weather	103	1,283	132,115
2/6/2020	COTTONDALE (9866)	Tornado-Severe Weather	15	291	4,365
2/6/2020	BRISTOL (9882)	Tornado-Severe Weather	28	584	16,352
2/6/2020	COTTONDALE (9866)	Tornado-Severe Weather	405	327	132,583
2/6/2020	HOSPITAL (9872)	Tornado-Severe Weather	14	1,320	18,477
2/6/2020	SOUTH STREET (9854)	Tornado-Severe Weather	46	558	25,668
2/6/2020	INDIAN SPRINGS (9932)	Tornado-Severe Weather	20	1,916	38,319
2/6/2020	HWY 90E (9942)	Tornado-Severe	8	531	4,248

		Weather			
2/6/2020	SOUTH STREET (9854)	Tornado-Severe Weather	33	487	16,081
2/6/2020	GREENWOOD (9742)	Tornado-Severe Weather	13	198	2,572
2/6/2020	INDUSTRIAL PARK (9752)	Tornado-Severe Weather	1	202	202
2/6/2020	INDIAN SPRINGS (9932)	Tornado-Severe Weather	3	1,156	3,467
2/6/2020	HOSPITAL (9872)	Tornado-Severe Weather	3	1,310	3,930
2/6/2020	HWY 90E (9942)	Tornado-Severe Weather	5	1,230	6,150
2/6/2020	GREENWOOD (9742)	Tornado-Severe Weather	5	1,308	6,539
2/6/2020	HWY 90E (9942)	Tornado-Severe Weather	2	1,526	3,051
2/6/2020	RAILROAD (9512)	Tornado-Severe Weather	1	1,750	1,750
2/6/2020	BLOUNTSTOWN (9972)	Tornado-Severe Weather	1	1,018	1,018
2/6/2020	GREENWOOD (9742)	Tornado-Severe Weather	2	1,671	3,342
2/6/2020	SOUTH STREET (9854)	Tornado-Severe Weather	32	519	16,596
2/6/2020	GREENWOOD (9742)	Tornado-Severe Weather	36	1,336	48,096
2/6/2020	ALTHA (9952)	Tornado-Severe Weather	2	1,636	3,272
2/6/2020	GREENWOOD (9742)	Tornado-Severe Weather	5	1,667	8,337
2/6/2020	SOUTH STREET (9854)	Tornado-Severe Weather	10	1,066	10,656
2/6/2020	COLLEGE (9982)	Tornado-Severe Weather	36	1,515	54,540
2/6/2020	COLLEGE (9982)	Tornado-Severe Weather	20	1,332	26,648
2/6/2020	HWY 90E (9942)	Tornado-Severe Weather	1	1,390	1,390
2/6/2020	COTTONDALE (9866)	Tornado-Severe Weather	1	1,666	1,666
2/6/2020	COTTONDALE (9866)	Tornado-Severe Weather	2	104	209
2/6/2020	ALTHA (9952)	Tornado-Severe Weather	6	892	5,350
2/6/2020	INDUSTRIAL PARK (9752)	Tornado-Severe Weather	1	131	131
2/6/2020	ALTHA (9952)	Tornado-Severe Weather	4	827	3,308
2/6/2020	ALTHA (9952)	Tornado-Severe	2	882	1,765

		Weather			
2/6/2020	INDIAN SPRINGS (9932)	Tornado-Severe Weather	57	902	51,422
2/6/2020	INDIAN SPRINGS (9932)	Tornado-Severe Weather	1	973	973
2/6/2020	SOUTH STREET (9854)	Tornado-Severe Weather	60	184	11,014
2/6/2020	HWY 90E (9942)	Tornado-Severe Weather	7	849	5,943
2/6/2020	BLOUNTSTOWN (9972)	Tornado-Severe Weather	6	607	3,641
2/6/2020	SOUTH STREET (9854)	Tornado-Severe Weather	87	614	53,457
2/6/2020	ALTHA (9952)	Tornado-Severe Weather	3	658	1,975
2/6/2020	RAILROAD (9512)	Tornado-Severe Weather	4	913	3,652
2/6/2020	BRISTOL (9882)	Tornado-Severe Weather	10	1,036	10,360
2/6/2020	COLLEGE (9982)	Tornado-Severe Weather	26	1,188	30,895
2/6/2020	SOUTH STREET (9854)	Tornado-Severe Weather	13	559	7,267
2/7/2020	RAILROAD (9512)	Tornado-Severe Weather	1	466	466
2/7/2020	INDIAN SPRINGS (9932)	Tornado-Severe Weather	18	469	8,444
2/7/2020	ALTHA (9952)	Tornado-Severe Weather	1	362	362
2/7/2020	COLLEGE (9982)	Tornado-Severe Weather	1	615	615
2/7/2020	INDIAN SPRINGS (9932)	Tornado-Severe Weather	1	733	733
2/7/2020	COTTONDALE (9866)	Tornado-Severe Weather	2	722	1,444
2/7/2020	HWY 90E (9942)	Tornado-Severe Weather	1	273	273
2/7/2020	INDIAN SPRINGS (9932)	Tornado-Severe Weather	1	503	503
2/7/2020	HOSPITAL (9872)	Tornado-Severe Weather	4	33	134
2/7/2020	HOSPITAL (9872)	Tornado-Severe Weather	15	175	2,625
2/7/2020	HOSPITAL (9872)	Tornado-Severe Weather	1	417	417
2/7/2020	HOSPITAL (9872)	Tornado-Severe Weather	8	215	1,720
2/11/2020	GREENWOOD (9742)	Planned Outage	1	35	35
3/18/2020	RAILROAD (9512)	Planned Outage	1	18	18

3/28/2020	BRISTOL (9882)	Substation	1002	192	192,818
4/8/2020	SOUTH STREET (9854)	Planned Outage	33	32	1,061
4/12/2020	COTTONDALE (9866)	Tornado-Severe Weather	1405	120	168,319
4/12/2020	INDIAN SPRINGS (9932)	Tornado-Severe Weather	322	643	207,046
4/12/2020	HOSPITAL (9872)	Tornado-Severe Weather	196	242	47,390
4/13/2020	SOUTH STREET (9854)	Tornado-Severe Weather	1	990	990
4/13/2020	SOUTH STREET (9854)	Tornado-Severe Weather	93	231	21,440
4/13/2020	SOUTH STREET (9854)	Tornado-Severe Weather	140	433	60,583
4/13/2020	SOUTH STREET (9854)	Tornado-Severe Weather	12	306	3,676
4/13/2020	SOUTH STREET (9854)	Tornado-Severe Weather	33	719	23,714
4/13/2020	COTTONDALE (9866)	Tornado-Severe Weather	1405	164	229,788
4/13/2020	ALTHA (9952)	Tornado-Severe Weather	23	748	17,204
4/13/2020	HOSPITAL (9872)	Tornado-Severe Weather	4	1,175	4,698
4/13/2020	PRISON (9732)	Tornado-Severe Weather	55	938	51,598
4/13/2020	GREENWOOD (9742)	Tornado-Severe Weather	31	1,019	31,581
4/13/2020	HOSPITAL (9872)	Tornado-Severe Weather	22	756	16,632
4/13/2020	INDIAN SPRINGS (9932)	Tornado-Severe Weather	337	363	122,269
4/13/2020	HWY 90E (9942)	Tornado-Severe Weather	71	527	37,408
4/13/2020	HWY 90W (9992)	Tornado-Severe Weather	42	816	34,275
4/13/2020	SOUTH STREET (9854)	Tornado-Severe Weather	14	528	7,392
4/13/2020	HWY 90E (9942)	Tornado-Severe Weather	134	381	51,027
4/13/2020	ALTHA (9952)	Tornado-Severe Weather	4	430	1,720
4/13/2020	HOSPITAL (9872)	Tornado-Severe Weather	10	883	8,830
4/13/2020	HOSPITAL (9872)	Tornado-Severe Weather	21	799	16,783
4/13/2020	RAILROAD (9512)	Tornado-Severe Weather	4	962	3,848
4/13/2020	ALTHA (9952)	Tornado-Severe	24	340	8,150

		Weather			
4/13/2020	ALTHA (9952)	Tornado-Severe Weather	3	536	1,608
4/13/2020	DOGWOOD HEIGHTS (9722)	Tornado-Severe Weather	7	646	4,522
4/13/2020	HOSPITAL (9872)	Tornado-Severe Weather	196	712	139,552
4/13/2020	SOUTH STREET (9854)	Tornado-Severe Weather	2	757	1,514
4/13/2020	COTTONDALE (9866)	Tornado-Severe Weather	11	340	3,740
4/13/2020	COTTONDALE (9866)	Tornado-Severe Weather	57	862	49,133
4/13/2020	COTTONDALE (9866)	Tornado-Severe Weather	14	460	6,440
4/13/2020	COTTONDALE (9866)	Tornado-Severe Weather	48	676	32,435
4/13/2020	COTTONDALE (9866)	Tornado-Severe Weather	28	404	11,312
4/13/2020	COLLEGE (9982)	Tornado-Severe Weather	4	1,017	4,068
4/13/2020	COTTONDALE (9866)	Tornado-Severe Weather	3	356	1,068
4/13/2020	RAILROAD (9512)	Tornado-Severe Weather	1	934	934
4/13/2020	BRISTOL (9882)	Tornado-Severe Weather	1	189	189
4/13/2020	SOUTH STREET (9854)	Tornado-Severe Weather	6	904	5,421
4/13/2020	COLLEGE (9982)	Tornado-Severe Weather	31	677	20,987
4/13/2020	COTTONDALE (9866)	Tornado-Severe Weather	30	463	13,902
4/13/2020	COLLEGE (9982)	Tornado-Severe Weather	68	892	60,656
4/13/2020	COLLEGE (9982)	Tornado-Severe Weather	5	648	3,239
4/13/2020	DOGWOOD HEIGHTS (9722)	Tornado-Severe Weather	17	996	16,928
4/13/2020	SOUTH STREET (9854)	Tornado-Severe Weather	1	781	781
4/13/2020	ALTHA (9952)	Tornado-Severe Weather	1	668	668
4/13/2020	SOUTH STREET (9854)	Tornado-Severe Weather	4	553	2,210
4/13/2020	COTTONDALE (9866)	Tornado-Severe Weather	15	557	8,349
4/13/2020	RAILROAD (9512)	Tornado-Severe Weather	1	280	280
4/13/2020	RAILROAD (9512)	Tornado-Severe	3	827	2,481

		Weather			
4/13/2020	SOUTH STREET (9854)	Tornado-Severe Weather	14	649	9,086
4/13/2020	DOGWOOD HEIGHTS (9722)	Tornado-Severe Weather	10	690	6,899
4/13/2020	SOUTH STREET (9854)	Tornado-Severe Weather	2	472	944
4/13/2020	HWY 90E (9942)	Tornado-Severe Weather	20	208	4,170
4/13/2020	COLLEGE (9982)	Tornado-Severe Weather	9	938	8,446
4/13/2020	RAILROAD (9512)	Tornado-Severe Weather	10	641	6,410
4/13/2020	INDIAN SPRINGS (9932)	Tornado-Severe Weather	84	163	13,692
4/13/2020	SOUTH STREET (9854)	Tornado-Severe Weather	10	315	3,149
4/13/2020	SOUTH STREET (9854)	Tornado-Severe Weather	1	661	661
4/13/2020	SOUTH STREET (9854)	Tornado-Severe Weather	36	107	3,866
4/13/2020	INDIAN SPRINGS (9932)	Tornado-Severe Weather	1	263	263
4/13/2020	SOUTH STREET (9854)	Tornado-Severe Weather	8	34	273
4/13/2020	GREENWOOD (9742)	Tornado-Severe Weather	1	967	967
4/13/2020	INDIAN SPRINGS (9932)	Tornado-Severe Weather	10	221	2,213
4/13/2020	HOSPITAL (9872)	Tornado-Severe Weather	15	461	6,915
4/13/2020	HOSPITAL (9872)	Tornado-Severe Weather	1	458	458
4/13/2020	COTTONDALE (9866)	Tornado-Severe Weather	1	603	603
4/13/2020	ALTHA (9952)	Tornado-Severe Weather	6	260	1,562
4/13/2020	SOUTH STREET (9854)	Tornado-Severe Weather	2	132	264
4/13/2020	SOUTH STREET (9854)	Tornado-Severe Weather	2	428	855
4/13/2020	RAILROAD (9512)	Tornado-Severe Weather	1	572	572
4/13/2020	HOSPITAL (9872)	Tornado-Severe Weather	1	518	518
4/13/2020	HWY 90W (9992)	Tornado-Severe Weather	2	349	699
4/13/2020	HOSPITAL (9872)	Tornado-Severe Weather	1	524	524
4/13/2020	INDIAN SPRINGS	Tornado-Severe	16	137	2,187

	(9932)	Weather			
4/13/2020	ALPHA (9952)	Tornado-Severe Weather	2	166	331
4/13/2020	HOSPITAL (9872)	Tornado-Severe Weather	1	319	319
4/13/2020	SOUTH STREET (9854)	Tornado-Severe Weather	1	398	398
4/13/2020	COLLEGE (9982)	Tornado-Severe Weather	10	1,558	15,576
4/13/2020	COLLEGE (9982)	Tornado-Severe Weather	1	643	643
4/13/2020	COLLEGE (9982)	Tornado-Severe Weather	1	401	401
4/13/2020	SOUTH STREET (9854)	Tornado-Severe Weather	1	232	232
4/13/2020	COLLEGE (9982)	Tornado-Severe Weather	31	180	5,590
4/13/2020	GREENWOOD (9742)	Tornado-Severe Weather	1	369	369
4/13/2020	HOSPITAL (9872)	Tornado-Severe Weather	189	114	21,559
4/13/2020	COTTONDALE (9866)	Tornado-Severe Weather	22	161	3,547
4/13/2020	COLLEGE (9982)	Tornado-Severe Weather	1	165	165
4/14/2020	RAILROAD (9512)	Tornado-Severe Weather	4	70	280
4/14/2020	COLLEGE (9982)	Tornado-Severe Weather	1	56	56
4/14/2020	COLLEGE (9982)	Tornado-Severe Weather	1	58	58
4/16/2020	HOSPITAL (9872)	Planned Outage	14	13	182
4/20/2020	COTTONDALE (9866)	Planned Outage	14	8	108
4/23/2020	BLOUNTSTOWN (9972)	Tornado-Severe Weather	21	56	1,166
4/23/2020	GREENWOOD (9742)	Tornado-Severe Weather	1	60	60
4/23/2020	COTTONDALE (9866)	Tornado-Severe Weather	2	116	232
4/23/2020	GREENWOOD (9742)	Tornado-Severe Weather	15	95	1,428
4/23/2020	BRISTOL (9882)	Tornado-Severe Weather	752	39	29,077
4/23/2020	BRISTOL (9882)	Tornado-Severe Weather	1	75	75
4/23/2020	HWY 90E (9942)	Tornado-Severe Weather	1	80	80
4/23/2020	GREENWOOD (9742)	Tornado-Severe Weather	1	221	221

4/23/2020	COTTONDALE (9866)	Tornado-Severe Weather	402	134	53,908
4/23/2020	COTTONDALE (9866)	Tornado-Severe Weather	30	312	9,349
4/23/2020	HOSPITAL (9872)	Tornado-Severe Weather	189	106	19,955
4/23/2020	SOUTH STREET (9854)	Tornado-Severe Weather	354	191	67,626
4/23/2020	HWY 90W (9992)	Tornado-Severe Weather	914	46	42,455
4/23/2020	RAILROAD (9512)	Tornado-Severe Weather	3	360	1,081
4/23/2020	COLLEGE (9982)	Tornado-Severe Weather	610	99	60,268
4/23/2020	HOSPITAL (9872)	Tornado-Severe Weather	14	146	2,044
4/23/2020	COTTONDALE (9866)	Tornado-Severe Weather	11	123	1,357
4/23/2020	HWY 90E (9942)	Tornado-Severe Weather	746	40	29,504
4/23/2020	ALHA (9952)	Tornado-Severe Weather	2	429	858
4/23/2020	COTTONDALE (9866)	Tornado-Severe Weather	15	252	3,780
4/23/2020	ALHA (9952)	Tornado-Severe Weather	92	464	42,728
4/23/2020	SOUTH STREET (9854)	Tornado-Severe Weather	36	278	10,003
4/23/2020	COTTONDALE (9866)	Tornado-Severe Weather	40	69	2,756
4/23/2020	COLLEGE (9982)	Tornado-Severe Weather	3	222	667
4/23/2020	BRISTOL (9882)	Tornado-Severe Weather	79	100	7,900
4/23/2020	SOUTH STREET (9854)	Tornado-Severe Weather	8	318	2,541
4/23/2020	INDIAN SPRINGS (9932)	Tornado-Severe Weather	1	329	329
4/23/2020	HWY 90E (9942)	Tornado-Severe Weather	4	132	528
4/23/2020	HWY 90W (9992)	Tornado-Severe Weather	66	94	6,195
4/23/2020	BRISTOL (9882)	Tornado-Severe Weather	1	208	208
4/23/2020	HWY 90W (9992)	Tornado-Severe Weather	1	354	354
4/23/2020	HWY 90E (9942)	Tornado-Severe Weather	1	157	157
4/23/2020	HWY 90E (9942)	Tornado-Severe Weather	2	114	229

4/23/2020	BRISTOL (9882)	Tornado-Severe Weather	1	199	199
4/23/2020	RAILROAD (9512)	Tornado-Severe Weather	3	423	1,268
4/23/2020	HWY 90E (9942)	Tornado-Severe Weather	19	250	4,743
4/23/2020	COLLEGE (9982)	Tornado-Severe Weather	1	57	57
4/23/2020	COLLEGE (9982)	Tornado-Severe Weather	5	46	229
4/23/2020	HWY 90E (9942)	Tornado-Severe Weather	12	93	1,118
4/23/2020	COLLEGE (9982)	Tornado-Severe Weather	1	110	110
4/23/2020	HOSPITAL (9872)	Tornado-Severe Weather	33	180	5,941
4/23/2020	COTTONDALE (9866)	Tornado-Severe Weather	9	845	7,606
4/23/2020	BRISTOL (9882)	Tornado-Severe Weather	79	88	6,928
4/23/2020	COLLEGE (9982)	Tornado-Severe Weather	2	49	99
4/23/2020	HWY 90E (9942)	Tornado-Severe Weather	1	277	277
4/23/2020	HWY 90E (9942)	Tornado-Severe Weather	1	120	120
4/23/2020	HWY 90E (9942)	Tornado-Severe Weather	1	189	189
4/23/2020	HWY 90W (9992)	Tornado-Severe Weather	5	214	1,069
4/23/2020	SOUTH STREET (9854)	Tornado-Severe Weather	4	289	1,156
4/23/2020	SOUTH STREET (9854)	Tornado-Severe Weather	1	194	194
8/18/2020	SOUTH STREET (9854)	Planned Outage	91	14	1,301
9/15/2020	SOUTH STREET (9854)	Named Storm - Sally	1	94	94
9/15/2020	DOGWOOD HEIGHTS (9722)	Named Storm - Sally	1	34	34
9/15/2020	COTTONDALE (9866)	Named Storm - Sally	23	42	959
9/15/2020	COTTONDALE (9866)	Named Storm - Sally	15	54	817
9/15/2020	COTTONDALE (9866)	Named Storm - Sally	2	113	225
9/16/2020	COTTONDALE (9866)	Named Storm - Sally	35	126	4,410
9/16/2020	COTTONDALE (9866)	Named Storm - Sally	1	27	27

9/16/2020	COTTONDALE (9866)	Named Storm - Sally	11	62	686
9/16/2020	BRISTOL (9882)	Named Storm - Sally	58	47	2,754
9/16/2020	ALTHA (9952)	Named Storm - Sally	503	79	39,737
9/16/2020	ALTHA (9952)	Named Storm - Sally	29	66	1,907
9/16/2020	HOSPITAL (9872)	Named Storm - Sally	10	94	942
9/16/2020	COTTONDALE (9866)	Named Storm - Sally	13	105	1,368
9/16/2020	DOGWOOD HEIGHTS (9722)	Named Storm - Sally	288	45	12,960
9/16/2020	ALTHA (9952)	Named Storm - Sally	2	138	276
9/16/2020	SOUTH STREET (9854)	Named Storm - Sally	39	79	3,093
9/16/2020	DOGWOOD HEIGHTS (9722)	Named Storm - Sally	18	37	666
9/16/2020	COTTONDALE (9866)	Named Storm - Sally	4	136	546
9/16/2020	HWY 90W (9992)	Named Storm - Sally	924	254	234,696
9/16/2020	COLLEGE (9982)	Named Storm - Sally	9	135	1,216
9/16/2020	DOGWOOD HEIGHTS (9722)	Named Storm - Sally	18	53	951
9/16/2020	COLLEGE (9982)	Named Storm - Sally	1	109	109
9/16/2020	COLLEGE (9982)	Named Storm - Sally	256	62	15,872
9/18/2020	COLLEGE (9982)	Planned Outage	1517	12	18,861
10/28/2020	COTTONDALE (9866)	Named Storm - Zeta	34	156	5,290
10/29/2020	COLLEGE (9982)	Named Storm - Zeta	9	117	1,051
10/29/2020	HOSPITAL (9872)	Named Storm - Zeta	4	82	327
10/29/2020	HOSPITAL (9872)	Named Storm - Zeta	194	175	33,914
10/29/2020	HWY 90E (9942)	Named Storm - Zeta	8	49	391
10/29/2020	COLLEGE (9982)	Named Storm - Zeta	38	216	8,223
10/29/2020	INDUSTRIAL PARK (9752)	Named Storm - Zeta	1	508	508
10/29/2020	GREENWOOD (9742)	Named Storm - Zeta	6	165	992
10/29/2020	HWY 90E (9942)	Named Storm -	12	143	1,717

		Zeta			
10/29/2020	GREENWOOD (9742)	Named Storm - Zeta	654	92	60,201
10/29/2020	COLLEGE (9982)	Named Storm - Zeta	12	415	4,977
10/29/2020	HWY 90W (9992)	Named Storm - Zeta	9	102	914
10/29/2020	INDIAN SPRINGS (9932)	Named Storm - Zeta	29	115	3,322
10/29/2020	HOSPITAL (9872)	Named Storm - Zeta	32	58	1,848
10/29/2020	ALTHA (9952)	Named Storm - Zeta	1	186	186
10/29/2020	BRISTOL (9882)	Named Storm - Zeta	1	184	184
10/29/2020	COTTONDALE (9866)	Named Storm - Zeta	6	67	405
10/29/2020	HWY 90E (9942)	Named Storm - Zeta	1	95	95
10/29/2020	BRISTOL (9882)	Named Storm - Zeta	1	78	78
10/29/2020	SOUTH STREET (9854)	Named Storm - Zeta	1	225	225
10/29/2020	INDIAN SPRINGS (9932)	Named Storm - Zeta	1	202	202
10/29/2020	COLLEGE (9982)	Named Storm - Zeta	2	161	321
10/29/2020	ALTHA (9952)	Named Storm - Zeta	1	122	122
10/29/2020	ALTHA (9952)	Named Storm - Zeta	2	67	134
10/29/2020	ALTHA (9952)	Named Storm - Zeta	1	71	71
10/29/2020	SOUTH STREET (9854)	Named Storm - Zeta	52	154	8,031
11/30/2020	SOUTH STREET (9854)	Planned Outage	358	70	25,132
11/30/2020	SOUTH STREET (9854)	Planned Outage	35	20	688