



Russell Badders

Vice President, Associate General Counsel

March 2, 2020

Mr. Adam Teitzman, Commission Clerk Florida Public Service Commission 2540 Shumard Oak Boulevard Tallahassee FL 32399-0868

Dear Mr. Teitzman:

Attached is Gulf Power Company's Annual Distribution Service Reliability Report as required by Rule 25-6.0455, along with annual storm hardening initiatives as required in Order No. PSC-06-0781-PAA-EI.

Sincerely,

Russell Badders

Vice President & Associate General Counsel

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Gulf Power Company

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Attachment

cc: Florida Public Service Commission

Mr. Thomas Ballinger, Director, Division of Engineering

Reliability

and

Storm Hardening Initiatives

Report

March 1, 2020



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1.0 Status Report of Implementation of Storm Hardening Plan

This section is intended to fulfill the requirement for filing a status report of Gulf Power Company's Storm Hardening Plan. A "Stipulation and Agreement" was signed between Gulf Power Company (Gulf or Company) and the Florida Cable Telecommunications Association (FCTA) on November 9, 2010. This agreement was revisited in November 2013 and signed again by Gulf and FCTA.

On March 1, 2019, Gulf Power Company filed its 2019-2021 Storm Hardening Plan update with the Florida Public Service Commission (FPSC) as required by Rule 25-6.0342, F.A.C., and Docket No. 20180147-El was opened to address the update. On July 29, 2019, the FPSC approved Gulf's 2019-2021 Storm Hardening Plan, under Order No. PSC-2019-0311-PAA-El.

1.1 2019 Storm Hardening Activities

The following storm hardening activities were initiated and/or completed in 2019:

Distribution

Gulf's field personnel and third party attachers. Meeting notifications were sent to the following third party attachers:

- AT&T
- 2. Brighthouse Networks, LLC
- 3. Century Link
- 4. Century Tel/Madison River Communication
- CHELCO
- 6. City of Pensacola
- 7. Comcast Joint Holdings, Inc.
- 8. Cox Communications Gulf Coast
- 9. DeltaCom, LLC d/b/a EarthLink
- 10. Escambia County Schools
- 11. ExteNet Systems, Inc.
- 12. Fibercast Cable Communications
- 13. GTC/Fairpoint Communications
- 14. Kentucky Data Link, Inc., d/b/a Windstream
- 15. Knology, d/b/a WOW (Way Out West)
- 16. Level 3 Communications, LLC
- 17. MediaCom
- 18. Mobilite
- 19. RSAE Labs Inc.
- 20. Southern Light, LLC (UnitiFiber)
- 21. Valparaiso Broadband Communications
- 22. Verizon
- 23. Walton County

Gulf's permit administrator (ICON Consulting) and pole removal contractor (Davey Resource Group) also attended these meetings. Ongoing communication between these entities remains vital to the success of Gulf's storm hardening initiatives. Detailed information on actual or proposed attachments is required to complete computer modeling of poles' strength requirements to determine the type and class to be installed.

During these meetings, Gulf reviewed:

- Planned major projects (both Company and customer driven)
- Construction standards
- Pole inspection program (Osmose)
- · Permitting criteria related to attaching or removing attachments
- Pole removal program
- In-service wood pole inspection tagging
- Review of construction/attachment specifications

Organizational charts and maps identifying Gulf field personnel and areas of responsibility were provided to the third party attachers. The 2019 meetings were scheduled for May and October. The meetings were held in Panama City and Pensacola and included representation from:

- Gulf field personnel, special project engineers, technical services engineers, and their respective supervision and management
- AT&T
- Cox Communications Gulf Coast
- Davey Resource Group
- Escambia County Schools
- ICON Consulting
- MediaCom
- Southern Light (UnitiFiber)

Prior to the 2019 hurricane season, representatives from Gulf, Century Link, and AT&T discussed their respective storm plans in the event of a major event. Since 2008, Gulf has assigned a liaison to AT&T during storm events that provides a single point of contact with Gulf. Since 2012, a liaison has been assigned to Century Link. Such conversations have already occurred in 2020, thus continuing smooth and timely flow of information.

In the event of a storm, Gulf will be ready to communicate restoration status information so that other attachers can then begin their own restoration work. In 2019, Gulf continued to focus on the distribution projects and objectives outlined below as part of the 2019-2021 Storm Hardening Plan.

Distribution

Critical Infrastructure Improvements

- Underground Network Improvements
- Infrared and Feeder Patrols
- Automated Overhead Faulted Circuit Indicators
- Distribution Automation
- Distribution Supervisory Control and Data Acquisition (DSCADA)

Transmission

- All critical lines were aerially inspected
- Two aerial patrols of the total system were completed
- Comprehensive walking/climbing and ground line inspections as part of the six-year inspection program were completed

1.2 2019 Hardening of Distribution Feeders and 2020 Goal

	2019 Activity		2019 Activity		2020	
	Goal	Actual	Budget	Actual	Goal	Budget
A) Distribution Feeder Projects	7	4 ¹	\$5M	\$6.9M	6 ¹	\$7M
B) Percent Distribution Feeder						
Hardening Completed	-	60%	-	-	-	-

Note 1: Three storm hardening projects that were planned for, but not completed in 2019, are in construction and scheduled to be completed in 2020, along with the six projects planned to begin in 2020.

2.0 Wood Pole Inspection Program

2.1 Wood Pole Inspection Description

Gulf's 2019 Wood Pole Inspection Program was designed to comply with FPSC Order No. PSC-06-0144-PAA-EI (eight-year inspection cycle) and FPSC Order No. PSC-07-0078-PAA-EU (allowed certain deviations regarding CCA poles less than 25 years in age and poles surrounded by concrete and asphalt). In 2019, Gulf started the sixth year of the second eight-year inspection cycle, utilizing its existing wood pole inspection matrix. This matrix is based on pole age, treatment type and condition, and allows the selective excavation and boring of newer poles.

2.2 2019 Accomplishments

In 2019, a total of 25,898 poles were inspected with a rejection rate of 3.82%. See Appendix 2, titled "Annual Wood Pole Inspection Report" for details.

Gulf also completed the change out of all poles identified as rejects from all inspections prior to 2019 and began changing out poles identified as rejects in the 2019 inspection.

2.3 Projected 2020 Goals

Gulf intends to continue its pole inspection program in 2020 to ensure the Company maintains an eight-year inspection cycle. The 2020 inspections will represent the seventh year of Gulf's second eight-year inspection cycle.

In addition, the remaining poles identified as rejects in the 2019 inspection will be changed out in 2020. These poles will be upgraded to Grade B, Extreme Wind Loading construction standards.

3.0 Vegetation Management Programs

3.1 Distribution Vegetation Management Plan Overview

In 2019, Gulf continued the Vegetation Management (VM) program approved by the FPSC in Order No. PSC 07-1022-FOF-EI. Gulf's vegetation management program consists of a three-year cycle on main line feeders, four-year cycle on laterals, and an annual cycle of inspections and correction on main line feeders.

3.2 Transmission Vegetation Management Plan Overview

Vegetation hazard removals continued to be the focus of Gulf's 2019 Transmission VM programs. Detailed ground patrols were performed on the transmission Right of Ways (ROW) in an effort to identify vegetation conditions requiring correction. All vegetation conditions identified by the 2019 patrols were corrected through vegetation removal or pruning activities. In 2019, Gulf was in full compliance with North American Electric Reliability Council (NERC) Standard FAC-003-4.

3.3 Supplemental VM Programs

Gulf continues using the Distribution Reliability Learning Events program, a process developed by Gulf to document and track distribution feeder lock-outs. The program continues to be an effective VM tool across the company. The data collected during field evaluations by Gulf engineers and Utility Arborists helps identify the root causes of feeder breaker lock-outs. This process enables Gulf to modify and improve its VM management practices employed on the Company's distribution system. The use of Distribution Reliability Learning Events will continue to be a valued element of Gulf's future VM programs.

3.4 Right-of-Way Acquisition Program

The majority of Gulf's distribution lines are located on public road right-ofway. Throughout the years, the widening of roads has forced Gulf to relocate its distribution facilities close to the right-of-way edge. As a result, some of Gulf's facilities are now immediately adjacent to privately-owned property where Gulf has no legal rights to prune or remove vegetation.

In 2016, Gulf launched a pilot program to expand its storm hardening philosophy by attempting to buy vegetation management easements from private property owners on select feeders to enhance Gulf's ability to adequately address VM concerns. The criteria used to select feeders were:

- Mainline feeders that serve key customers, such as hospitals
- Feeders that experience reliability issues due to off right-of-way vegetation conflicts
- Feeders that have heavy exposure to off right-of-way vegetation
- Feeders which planning studies recommended construction upgrades and/or modernization

The program has met expectations to this point. Gulf has successfully purchased easements on 150 miles of line, giving Gulf the right to clear and maintain a 15-ft. wide corridor on private property adjacent to the public right-of-way and Gulf's distribution facilities.

Gulf plans to continue this program through 2020.

3.5 Company's Overall Vegetation Management Summary

During 2019, Gulf pruned 254 feeder miles. Additionally, 527 miles of feeder primary were inspected, and any vegetation conditions found to be out of specification were pruned or removed. Gulf also pruned 1,533 miles of lateral primary lines.

3.6 2019 Distribution Performance Metrics (System Wide)

1. Distribution VM Reliability

Outages & Interruptions	Feeder	Lateral
A) Number of Outages	11	1,648
B) Customer Interruptions (CI)	8,112	65,234
C) Outages per Mile	0.007	0.391
D) CI per Mile	5.18	15.47
E) Customer Minutes of Interruption (CMI)	417,295	5,180,459

2. Distribution Performance

VM Miles Cleared and Contractor Cost	Plan (mi)	Actual (mi)
A) MATS Mainline Annual Trim Schedule (3 Year Cycle)	259	254
B) MICS Mainline Inspect & Correct Schedule (1 Year Cycle)	518	527
C) SALT Scheduled Annual Lateral Trim (4 Year Cycle)	1,257	1,533

3. Total Distribution Vegetation Cost

VM Planned Vs Actual Program Costs	Plan (\$)	Actual (\$)
A) VM Contractor Costs (MATS, MICS, SALT, TICKETS, HERBICIDE,		
MOWING, MISCELLANEOUS)	\$4,565,782	\$9,031,637
B) VM Other Program Costs (Internal Labor and Miscellaneous)	\$30,000	\$37,949
C) Total Distribution Vegetation Cost	\$4,595,782	\$9,069,586

4.0 Joint Use Pole Attachment Audits

Gulf performs its joint use inventory audits (Field Survey), covering the overhead distribution system as required by FPSC Order No. PSC-06-0781-PAA-EI every five years. The 2016 Field Survey was completed on October 5, 2016. The next Field Survey will be conducted in 2021.

4.1 Activity and Costs Incurred for 2019 and 2020 Projections

There were no costs for 2019. Minimal costs are projected for 2020 in preparation of the 2021 audit.

4.2 Joint Use Attachment Audits – Distribution Poles

Summary of Distribution Poles and Attachments					
A) Company owned distribution poles (See Note 1)	236,628				
B) Company distribution poles leased: 8 Telecom attachers on Gulf's poles (See Note 1)	149,023				
C) Distribution pole attachments on Company Owned poles: 7 CATV, numerous Government and other 3rd party attachers on Gulf's poles (See Note 1)	164,910				
D) Leased distribution pole attachments: Foreign poles Company is attached to (See Note 1)	62,065				
E) Authorized attachments: Sum of all attachments to Company poles (See Note 1)	313,933				
F) Number of unauthorized attachments	0				
G) Number of apparent NESC violations involving electric infrastructure	Note 2				
H) Number of apparent NESC violations involving 3rd party facilities	Note 2				

Note 1: Data has been updated based on the 2019 year-end GIS data.

Note 2: When Gulf becomes, or is made aware of NESC violations, corrective measures are taken.

5.0 Six-Year Inspection Cycle for Transmission Structures

5.1 Activity and Costs Incurred for 2019

In 2004, Gulf participated with Georgia Power Company, Alabama Power Company, and Mississippi Power Company to develop and adopt the Southern Company Transmission Line Inspection Guidelines. Based on these guidelines, Gulf's Transmission Line Inspection Program is a

combination of three separate programs: (1) a ground line treatment inspection which is performed by a contractor, (2) a comprehensive walking inspection which is performed both by Company line personnel and contractor line crews, and (3) aerial inspections. Gulf's transmission inspection program is based on two alternating twelve-year cycles which result in a structure being inspected at least every six years. As part of the Transmission Line Inspection Standards, Gulf performed two routine aerial patrols in 2019.

In 2019, Gulf spent approximately \$159,852 on a combination of comprehensive walking, ground line treatment, and ground patrol inspections for transmission structures. These amounts are shown in Section 5.3 and 5.4, respectively. All inspections are on schedule to meet the six-year timeline. Gulf performed two aerial inspections of its system with an actual cost of \$5,489.

5.2 Transmission Circuit, Substation, and Other Equipment Inspections

Gulf has 56 substations which have transmission equipment in service, and at least one inspection of each of these substations was completed during 2019. The costs associated with inspections are not tracked separately from general maintenance expenses. Gulf transmission does not inspect by circuit.

5.3 Transmission Metal Pole and Tower Inspections

Transmission Metal Poles and		2019 Activity		Costs	2020		
Towers	Goal	Actual	Budget	Actual	Goal	Budget	
A) Total Number	-	2,467	-	-	-	-	
B) Number Inspected	600	513	\$60,000	\$13,790	-	-	
C) Percent Inspections Completed	-	86%	-	-	-	-	

5.4 Transmission Pole Inspections

Transmission Poles		2019 Activity		2019 Costs		20
Transmission Poles	Goal	Actual	Budget	Actual	Goal	Budget
A) Total Number	-	15,427	-	-	-	-
B) Number Inspected	2,400	3,674	\$250,000	\$146,062	-	-
C) Number Passing Inspection	-	3,666	-	-	-	-
D) Number Failing Strength Test (Overloaded)	-	N/A	-	ı	-	-
E) Number Failing Inspection (Other Reasons)	-	8	-	ı	-	-
F) Number Corrected (Strength failure)	-	0		-	-	
G) Number Corrected (Other Reasons)	-	33	-	-	-	-
H) Total Replaced	-	33	-	-	Note 1	-

Note 1: Gulf uses current year inspections and prior years' inspections in determining the poles to be replaced in the current year. Therefore, a goal for poles to be replaced in 2020 is not applicable.

6.0 Storm Hardening Activities for Transmission Structures

6.1 Activity and Costs Incurred for 2019

Gulf completed its previous storm hardening program in 2018 that was focused on additional guying on all wooden H-frame structures and replacement of wooden cross arms with steel cross arms on the transmission system.

In 2019, Gulf replaced 102 wood pole structures with concrete or steel structures.

6.2 Hardening of Existing Transmission Structures (Poles)

	2019 Activity		2019 A	ctivity	2020	
	Goal	Actual	Budget	Actual	Goal	Budget
A) Transmission Structures Hardened	100	102	\$5M	\$6.9M	140	\$7M
B) Percent Transmission Structures						
Hardening Completed	-	100%	-	-	-	-

7.0 Distribution Substations

7.1 Five-Year Patterns/Trends in Reliability Performance of Distribution Substations

Gulf reviews each substation-related outage, and actions are taken to reduce the possibility of an outage due to a similar cause occurring in the future. The review of data for the past five years does not show any trends or patterns affecting distribution substation reliability.

7.2 Distribution Substation Reliability Tracking

Each abnormal substation related outage is reviewed. Analyses are performed, and corrections are made to reduce the potential for future outages because of a similar system disturbance.

7.3 Distribution Substation Reliability Inspection Process

Routine inspections are performed to promote reliability in substations. Inspections include visual checks on all equipment, including breakers, regulators, transformers and battery banks. The substation is verified to ensure proper signage. The fence is checked for security and proper grounding. Security lights are checked and weed problems are noted. Any abnormal condition is documented in Gulf Power's AMP (Asset Management Program) and scheduled for repair.

A dissolved gas analysis is performed on transformers every year. Power factor testing is performed on transformers every three to five years or as needed based on the type and historical test results. Breakers and other equipment are monitored through various alarm points and event data. Abnormal conditions and historical data is utilized to schedule routine testing of breakers.

7.4 Distribution Substation Inspections During Normal Operations

Gulf inspected each of its distribution substations at least once during 2019.

8.0 Geographic Information System (GIS)

8.1 Activity and Costs Incurred for 2019 and 2020 Projections

Gulf began the transition to a new GIS platform in 2019 as part of the NextEra Energy acquisition. Gulf intends to continue the system transition during 2020 while maintaining the existing Distribution Geographic Information System (DistGIS), the new GE Smallworld Solutions system, and the Transmission GIS database.

8.2 Distribution Overhead Data Input

During the transition, both systems will maintain all overhead distribution equipment, including conductors, transformers, regulators, capacitors, and switches. The equipment captured also includes protective devices such as reclosers, sectionalizers, and fuses. Both systems will continue to be updated with any additions and changes as the associated work orders for maintenance, system improvements, and new business are completed. This ongoing process will continue until the transition is complete to provide Gulf with sufficient facility information to operate the system and restore the system following a major storm.

8.3 Distribution Underground Data Input

During the transition, both systems will maintain all underground distribution equipment that has been captured, including conductors, transformers, regulators, and switches. The equipment captured also includes protective devices such as reclosers, sectionalizers, and fuses. Both systems will be updated with any additions and changes as the associated work orders for maintenance, system improvements, and new business are completed. This ongoing process will provide Gulf with sufficient facility information to operate the system and restore the system following a major storm.

9.0 Post Storm Data Collection and Forensic Analysis

9.1 Activity and Costs Incurred for 2019 and 2020 Projections

Distribution

The 2019 storm season did not provide an opportunity to activate the forensic data collection process. The forensic data collection process was tested with the contractor prior to storm season. Gulf will continue to confirm and test the process in 2020 to ensure the Company and contractors are ready to perform post-storm forensics collections, if needed.

Transmission

No transmission system storm damage occurred in 2019 and the forensic data collection process was not activated. Gulf will continue to confirm and test the process in 2020 as part of storm season preparations.

10.0 Differentiating Between Overhead and Underground System Data

In 2019, Gulf Power adopted Florida Power and Light's (FPL) Trouble Call Management System (TCMS) software as part of its transition to NextEra Energy. Reporting practices are changing to be in line with FPL's reporting practices allowing for comparable reporting and use of existing reporting tools.

In this system, circuits are defined as overhead, underground, or hybrid. A circuit with combined feeder and lateral overhead miles greater than or equal to 95% of the total primary miles would be classified as overhead. A circuit with combined feeder and lateral underground miles greater than or equal to 95% of the total primary miles would be classified as underground. The remaining circuits are classified as hybrid – a combination of overhead and underground.

11.0 Coordination with Local Governments

Gulf is committed to coordinating with local governments on major projects and storm preparedness so that the customer will have the most reliable and efficient restoration of their electrical service. For all major projects, Gulf meets with governmental entities as appropriate to discuss the scope of the projects and coordinate activities involved with project implementation. Gulf also works very closely with the county Emergency Operation Centers (EOCs) in its service area for storm preparedness and restoration activities and actively pursues a positive and cooperative relationship with the leadership in every community served.

Gulf Power has been involved in several meetings and provided information to the FPSC, as well as the State EOC agencies, around coordination of federal and state facilities that may be in its service area. Gulf will continue to work with all

governmental agencies to prioritize and communicate outage and restoration information before, during, and following major events.

In addition, Gulf maintains year-round contact with officials to ensure cooperation in planning, open communications, and coordination of activities. Gulf has designated employees in every community whose job is to keep in regular contact with city, county, state, and business leadership.

A list of documented meetings held with city, county, state, or business leadership that were held in 2019 is in the table below. It is not an exclusive list of all communication sessions, only those with some type of documentation.

Meetings with Local Government									
Entity	Date(s)	Topics	Pending Issues/ Follow-up Items	inforn provid	tact nation ded to cal prities				
League of Cities	06/11/18	Storm	None	Y	IN				
Bay County	04/12/19	Storm	None	Y					
Santa Rosa County	05/08/19	Storm drill	None	Υ					
City of Panama City	09/16/19	Restoration process	None	Υ					
Washington County	10/17/19	Storm	None	Υ					
Jackson County	10/17/19	Storm	None	Υ					
Graceville	10/17/19	Storm	None	Υ					
Walton County	10/17/19	Storm	None	Y					
Chipley	10/17/19	Storm	None	Y					
Vernon	10/17/19	Storm	None	Y					
Okaloosa County	01/15/20	Storm, Restoration process/priorities	Update list of lift stations	Υ					
City of Ft. Walton Bch	01/22/20	Storm, Critical infrastructure list	None	Υ					
Destin Water Users	01/22/20	Storm, Critical infrastructure list	None	Υ					
Escambia County	01/24/20	Storm	None	Υ					

11.1 Ongoing Programs

Gulf has several employees with local government liaison responsibilities in Northwest Florida. District managers are in Pensacola, Ft. Walton, and Panama City. Local managers, who report to the district managers, are in Milton, Crestview, and Chipley. These and other Gulf employees interact with city and county personnel on a daily/weekly basis regarding numerous

issues, including emergency preparedness. Gulf employees are also actively involved in specific government/business committees that focus on emergency preparedness needs in Northwest Florida. For example, Gulf's Corporate Emergency Management Center Specialist is a Board Member of BRACE (Be Ready Alliance for Coordinating for Emergencies). BRACE is an Escambia County organization unique to Florida, but part of a federal government directive that encourages communities to develop more effective preparedness programs for various types of disasters.

Gulf's Utility Arborist and Utility Arborist Technicians communicate routinely with members of the community, government officials, and military leaders concerning area vegetation management projects and other issues such as: (1) new customer and Gulf construction projects; (2) utility right-of-way maintenance; (3) major initial clearing projects (i.e. road additions and re-sizing projects, new distribution feeders, water and sewer projects, military projects and missions, etc.); and (4) storm preparation and recovery activities. Routine communications range from office and field visits to phone and radio conversations.

In addition to numerous planning meetings with the EOCs, Gulf personnel also participated in the following hurricane activities with governmental entities in 2019:

- Hurricane Drills
- All Local and State EOC Activations
- EOC Representative Training
- Statewide Exercises

Gulf conducts annual storm drills, the most recent was April 22, 2019.

11.2 Storm Preparation

Gulf Power employees are assigned to the county EOCs throughout Northwest Florida. Each of these employees has received federal certification under the National Incident Management System (NIMS) through the Federal Emergency Management Agency (FEMA). These EOC Representatives assist city and county agencies and officials during emergencies that warrant activation of the county EOCs. Gulf provides 24-hour coverage throughout the duration of the EOC activation and keeps the agencies and officials informed of the progress of electrical restoration efforts. All actions are based on Gulf Power's Emergency Operations Plan.

Gulf also has representation available at the State EOC to support restoration activities and communicate with state and FPSC officials.

Gulf's Emergency Operations Plan includes pre-storm communications, ongoing communications, and post-storm communications supplied by the Marketing and Communications Departments. Gulf representatives are there to keep local government agencies and officials apprised of the latest restoration activities.

11.3 Storm Restoration

Gulf maintains an active communication link with the activated county and state EOCs for storm events. Gulf EOC representatives coordinate pre-storm activities with the EOCs to establish emergency communication links with local and state officials, the media, and restoration crews for all EOC activations.

Gulf strives to restore electric service as safely and quickly as possible. In addition, Gulf continues to storm-harden critical infrastructure, and implement stronger construction standards as outlined in the Storm Hardening Plan. Gulf's service area was not significantly affected by any named storms during 2019.

12.0 Collaborative Research

As a Public Utility Research Center (PURC) member, Gulf participates in the research activities for Storm Hardening as described by PURC management in Appendix 3.

13.0 Disaster Preparedness and Recovery Plan

Gulf Power continues to maintain a Disaster Preparedness and Recovery Plan (Gulf's Storm Restoration Procedures Manual).

13.1 Activity and Costs Incurred for 2019 and 2020 Projections

Gulf continues to provide annual refresher training (instructor led and computer based) in storm preparedness for various storm roles at minimal cost.

13.2 Disaster Recovery Plan Activity

Gulf's Storm Restoration Procedures Manual is currently being revised and reviewed by management for the 2020 storm season. Storm assignments and training schedules are being finalized with plans for training to be completed prior to the beginning of hurricane season.

13.3 Hurricane Drill

Gulf's hurricane dry-run was held the week of April 22, 2019. The 2019 drill was a company-wide drill with full activation of the Emergency Management Command Center. The dry-run involved as many employees and functions

as possible to test the process and train employees in critical job functions. Many areas were challenged with unexpected scenarios that helped teams understand their role and react to an ever-changing post storm environment. Substation Team Leaders and other critical functions met and trained at other times to allow for them to focus on the organization and communication required for restoration work. Additional follow-up meetings were held to discuss changes and best practices that needed to be implemented for the 2019/2020 storm season. The dry-run was also held in partnership with Florida Power & Light (FPL) to take advantage of best practices and coordinate restoration efforts as part of the NextEra acquisition of Gulf. The dry-run was extremely successful and provided a wide range of participation and interaction between the two companies for all employees. Gulf also participated in FPL's dry-run event the following week.

The 2020 annual dry-run is scheduled for the week of May 11, and Gulf expects to participate in conjunction with FPL during the storm dry-run.

14.0 Storm Season Ready Status

Storm Recovery Plan

Gulf uses the strategy described in its Storm Restoration Procedures Manual to respond to any disaster or major interruption of service to customers that may occur in Gulf's service area. This plan continues to function as a framework that allows leadership and employees to make decisions and function in an efficient manner during difficult circumstances. Gulf Power was extremely successful with the restoration efforts following Hurricane Michael in October 2018. The Company was able to use the framework of the restoration plan and the previous training and exercises to respond to Hurricane Michael in a safe and successful manner. The Company was awarded the Edison Electric Institute Emergency Response Award for restoration efforts following Hurricane Michael in January 2019.

As part of its annual operations and culture of preparedness, Gulf continues to review and refine its planning and preparations for the possibility of another disaster in the Florida panhandle. Plans are updated annually to build on what has worked well and to review areas that still require additional improvement. In these updates, Gulf strives for continuous improvement by building on experiences from recovery efforts within Northwest Florida as well as from lessons learned while assisting other utilities that have experienced major interruptions of service due to natural disasters.

Gulf's plan has been incorporated within a detailed and proprietary Storm Restoration Procedures Manual. The restoration procedures establish a plan of action to be utilized for the operation and restoration of generation, transmission, and distribution facilities during major disasters. Such disasters include hurricanes, tornadoes, ice, and flood events that could cause widespread outages to Gulf's customers and possible man-made events.

The overall objective is to restore electric service to Gulf's customers as quickly as possible while protecting the safety of everyone involved.

The Company acquires support from a number of resources, including but not limited to, the Southeastern Electric Exchange (SEE) Mutual Assistance Group and NextEra Energy for distribution, transmission, and logistics assistance.

In the logistics and support areas, contracts are negotiated and confirmed with vendors for services such as food, lodging, materials, transportation, fuel, and other support functions. Staging sites are secured, and if needed, agreements are negotiated and signed. NextEra's Integrated Supply Chain Department ensures that materials are on hand, along with additional materials available from material vendors, are sufficient to meet the anticipated demands of the storm season.

15.0 2019 Reliability Performance

15.1 Overall Performance

<u>Total Gulf System (Distribution and Transmission)</u> – Overall reliability is best gauged by SAIDI, the most relevant and best overall reliability indicator that encompasses two other standard industry performance metrics for reliability: System Average Interruption Frequency Index ("SAIFI") and Customer Average Interruption Duration Index ("CAIDI"). In 2019, Gulf achieved a best-ever total T&D system adjusted SAIDI of 81.3 minutes (2018 – 101.26 minutes). Gulf had a T&D system adjusted Momentary Average Interruption Frequency Index events ("MAIFIe") of 2.65 momentary events.

<u>Distribution</u> – Gulf's 2019 overall adjusted distribution reliability results were: SAIDI, a best-ever 67.2 minutes (2018 – 96.8); SAIFI is the lowest since 2014 at 0.97 interruptions per customer (2018 – 1.26 interruptions); CAIDI, 69.1 minutes (2018 – 77.0 minutes) and an adjusted MAIFIe of 2.13 momentary events (2018 – 2.07 momentary events). Gulf's overall unadjusted distribution reliability in 2019, as measured by SAIDI, was 73.8 minutes. This unadjusted performance includes approximately 6.6 minutes associated with tornados, named storms/hurricanes, and planned interruptions.

<u>Transmission</u> – In 2019, Gulf's Transmission/Substation adjusted reliability results were: SAIDI, 14.1 minutes (2018 – 4.44 minutes); SAIFI, 0.27 interruptions per customer (2018 – 0.17 interruptions); and MAIFIe, 0.52 momentary events.

15.2 Data Tracking Level

Gulf tracks the following reliability data associated with each individual interruption: customers affected, minutes interrupted, cause of outage, percentage of customers partially restored, device affected by interruption and location of the device. All of the interruption data is compiled to calculate reliability indices which are tracked throughout the year. The reliability indices that Gulf tracks include the following: SAIDI, SAIFI, CAIDI, MAIFI, MAIFIe, Lbar, CEMI-3, CEMI-5, CEMI-8, CEMM-25, CEMM-35 and Customer Momentary Experience ("CME").

15.3 Critical Review of Detailed Reliability Data

Daily reports are generated and distributed providing detailed information, such as the previous day's interruptions by device, month-to-date and year-to-date reliability indices. Gulf's management utilizes the information in conducting a daily in-depth review of key reliability data to identify lessons learned and areas for improvement. This review also includes an assessment of upcoming weather and potential impacts, operational risks and a final review of the daily operations plan. Gulf's management team also conducts monthly reliability reviews of the programs, objectives and actual performance vs. the plan. On an annual basis, Gulf reviews its reliability performance and outage causes to direct its reliability programs for continued performance.

15.4 Identification and Selection of Detailed Reliability Data

Gulf's reliability data detail has been increased in 2019, in line with FPL's standards based on industry practices, internal needs, as well as external requirements (e.g., requirements of regulators).

15.5 Generation Events – Adjustments

No generation events were excluded from distribution reliability reporting in 2019.

15.6 Transmission Events – Adjustments

See Appendix 1 for a detailed list of Transmission outage events for 2019.

Transmission/Substation
12 Months ending December 31

	2015	2016	2017	2018	2019
SAIDI	6.7	2.2	10.7	4.4	14.1
SAIFI	0.10	0.08	0.23	0.17	0.27
MAIFle	N/A	N/A	N/A	N/A	0.52

15.7 Extreme Weather Adjustments

See Appendix 1 for a detailed list of extreme weather outage events for 2019.

Extreme Weather Events	Strength (wind speeds/surge- flood levels)	Landfall Location	Management Regions Affected
		Eastern District	Affected: Eastern
Tornado	Not Available	Jan 19	Supported: None
		Central, Eastern	Affected: Central, Eastern
Tornado	Not Available	Mar 03	Supported: None
		Central, Eastern, Western	Affected: Central, Eastern, Western
TS Barry	Not Available	Jul 11 - 14	Supported: None
		Eastern	Affected: Eastern
TS Nestor	Not Available	Oct 18 - 19	Supported: None

Data Source:

http://www.spc.noaa.gov/climo/reports

http://www.nhc.noaa.gov

15.7.1 Response to Extreme Weather Events

Gulf strives for continuous improvements in reliability, including severe weather events. Gulf has a post-storm forensic process in place for the collection, evaluation, and reporting of storm damage data. This data will be used to perform a forensic analysis for Gulf by a contractor and used to help evaluate our construction standards going forward. As part of its analysis of system performance during Hurricane Michael, Gulf is making the following improvements:

- Strengthening existing critical infrastructure facilities (e.g., facilities that serve hospitals, shelters, first responders) to extreme wind loading standards per NESC guidelines;
- Designing and building all new feeder construction to meet extreme wind loading construction standards;
- Replacing all wooden transmission structures with concrete or steel systematically going forward; and

 Installing flood monitoring on vulnerable substations and reviewing substation switch house construction standards for possible replacement and strengthening.

See also the pole inspections, vegetation management, and storm season readiness sections in this report.

15.8 Other Distribution Adjustments

See Appendix 1 for a detailed list of planned outage events for 2019.

Causation	# of Outages	CI	CMI	LBAR
Planned Outages	6,410	50,144	2,457,995	73.21

Gulf continually evaluates the need for planned outages by determining if there are alternative work methods that could minimize or prevent such an outage. If an outage is not preventable, Gulf works with customers to schedule necessary outages during times which are more convenient for them (e.g., nights and weekends).

In 2019, Gulf re-evaluated its planned outage review criteria, with a focus on reducing customer impact of outages. Strategies include back-feeding wherever possible, limiting the outage to the lowest level outage device possible, and work planning to reduce the time the outage needs to last. In addition, Gulf crews increased efforts to provide information needed to accurately model the impact and duration of Planned Outages.

15.9 Adjusted Reliability

15.9.1 Outage Event Causes

15.9.1.1 Five Year Patterns

Gulf's five year SAIDI, SAIFI, and CAIDI trends for the ten FPSC defined outage categories are below:

		System Avg. Interruption (SAIDI)				
Rank	PSC Cause Group	2015	2016	2017	2018	2019
1	Animal	6.3	6.5	7.4	4.2	3.4
2	Defective Equipment	18.8	19.9	23.2	21.9	17.1
3	Lightning	22.8	20.4	22.2	16.7	9.5
4	Other Weather	4.6	5.8	6.6	4.2	4.5
5	Unknown	3.5	5.8	6.1	9.7	5.8
6	Vegetation	19.0	16.0	30.5	17.1	14.1
7	Vehicle	9.8	12.9	13.6	16.8	7.0
8	All Other Causes	3.5	7.5	6.5	6.3	5.8
	System Total	88.2	94.8	116.1	96.8	67.2

			Freq	uency (SA	AIFI)	
Rank	PSC Cause Group	2015	2016	2017	2018	2019
1	Animal	0.12	0.10	0.13	0.05	0.06
2	Defective Equipment	0.21	0.24	0.23	0.26	0.21
3	Lightning	0.23	0.21	0.18	0.21	0.12
4	Other Weather	0.04	0.06	0.05	0.04	0.04
5	Unknown	0.08	0.09	0.09	0.14	0.10
6	Vegetation	0.16	0.16	0.23	0.21	0.19
7	Vehicle	0.08	0.10	0.11	0.12	0.07
8	All Other Causes	0.10	0.18	0.19	0.23	0.20
	System Total	1.02	1.14	1.20	1.26	0.97

			Dur	ation (CA	IDI)	
Rank	PSC Cause Group	2015	2016	2017	2018	2019
1	Animal	33.4	43.0	35.2	27.6	58.7
2	Defective Equipment	51.0	64.0	58.8	76.8	83.1
3	Lightning	88.1	83.8	99.5	85.9	78.7
4	Other Weather	100.6	96.5	125.8	78.8	107.5
5	Unknown	108.5	103.6	147.6	114.1	61.0
6	Vegetation	46.6	61.4	66.9	69.5	74.9
7	Vehicle	119.5	100.7	131.6	81.3	107.4
8	All Other Causes	127.7	124.8	125.7	139.1	29.2
	System Total	86.5	83.3	97.0	77.0	69.1

15.9.1.2 Identification and Selection/Process Improvements

Annually, Gulf evaluates its current reliability remediation programs and verifies the programs' need. In addition, Gulf proposes new reliability remediation programs to improve its reliability performance concentrating on the highest cause codes and those cause codes that have shown trends needing attention.

15.9.1.3 2019 Activities and Budget Allowances

It is not practical to provide budget allowances for all activities that are related to distribution reliability. Gulf's budget and accounting systems do not separately categorize and track capital expenditures or Operating and Maintenance (O&M) expenses on the basis that they are related specifically to distribution reliability.

In 2019, Gulf's reliability programs aimed at reducing customer interruptions included:

Program	Program Description	Impact on Which Cause Codes
Vegetation	Integrated program designed to minimize tree and vine related	Vegetation,
Mgmt.	interruptions.	Unknown
System Expansion	Provide necessary feeder capacity to serve all customers during normal and emergency periods, and install the infrastructure necessary to support system contingency.	All
Auto Lateral	Reduce the number of permanent outages caused by temporary	Animal,
Switch (ALS)	faults on overhead lateral lines.	Unknown,
		Vegetation,
		Weather
Auto TX Switch	Reduce the number of permanent outages caused by temporary	Animal,
(ATS) Pilot	faults on overhead transformer equipment. Gulf is beginning a	Unknown,
	pilot in 2020 to test effectiveness of ATS in reducing interruptions	Vegetation,
	in Gulf's territory.	Weather
Cable Lateral	Reduce the number of direct burial lateral cable failures and	Equipment
	reduce customer interruptions.	Failure
Pad-mounted	Inspection/remediation or non-compliant conditions. The purpose	Equipment
Transformer Insp.	of this program is to maintain pad-mount transformer security.	Failure
Reliability-Capital Projects	Capital intensive projects to increase overall reliability.	All
Overhead Line	Conduct a visual and/or infrared inspection of overhead feeder	Equipment
Inspection &	infrastructure to identify issues that may lead to equipment	Failure
Repairs	failures.	
Submarine Cable	Reduce the number of submarine cable failures and reduce	Equipment
	customer interruptions.	Failure
Underground	To replace or modernize aging equipment in the Pensacola	Equipment
Network	Network to prevent or reduce customer interruptions.	Failure
Modernization		
Priority Feeders	Reduce the number of customers experiencing multiple	All
	interruptions and momentary events by identifying and correcting	
	feeders experiencing the highest number of events or customers	
	interrupted.	
Cable Feeder	Reduce the number of aged cable failures and reduce customer	Equipment
	interruptions.	Failure

15.9.2 Three Percent Feeder List

15.9.2.1 Five Year Patterns

See Gulf's three-percent list in Appendix 1.

15.9.2.2 Identification and Selection/Process Improvements

Gulf monitors feeder performance on a routine basis, including feeders having multiple interruptions. A number of initiatives are in place to strengthen feeders, including extreme wind loading standards for additional overall reliability improvement.

15.9.2.3 2019 Activities and Budget Allowances

See response in section 15.9.1.2.

15.9.3 Regional Reliability Indices

15.9.3.1 Five Year Patterns

Annual SAIDI performance for the Distribution unit and its regions

Data	Region	2015	2016	2017	2018	2019
	Central	75.35	91.49	110.36	86.28	57.84
CAIDI	Eastern	59.19	93.23	108.47	103.10	69.11
SAIDI	Western	110.23	97.36	123.15	99.16	71.06
,	All	88.20	94.80	116.13	96.82	67.18

Annual SAIFI performance for the Distribution unit and its regions

Data	Region	2015	2016	2017	2018	2019
SAIFI	Central	0.815	1.039	1.046	0.904	0.731
	Eastern	0.859	1.213	1.273	1.298	1.123
	Western	1.213	1.150	1.236	1.420	1.023
	All	1.020	1.138	1.197	1.257	0.973

Annual CAIDI performance for the Distribution unit and its regions

Data	Region	2015	2016	2017	2018	2019
CAIDI	Central	92.41	88.04	105.48	95.43	79.08
	Eastern	68.94	76.86	85.22	79.45	61.53
	Western	90.87	84.70	99.64	69.86	69.48
	All	86.46	83.34	97.03	77.04	69.07

Annual MAIFIe performance for the Distribution unit and its regions

Data	Region	2015	2016	2017	2018	2019
	Central	1.84	1.54	2.14	1.62	2.03
NANIFIA	Eastern	1.75	1.63	2.31	1.87	2.33
MAIFIE	Western	2.69	2.73	2.67	2.40	2.08
	All	2.23	2.14	2.44	2.07	2.13

Annual Cust > 5 performance for the Distribution unit and its regions

Data	Region	2015	2016	2017	2018	2019
# Q 5	Central	0.17%	0.22%	0.91%	0.51%	0.11%
	Eastern	1.66%	1.84%	0.86%	2.15%	0.82%
# Cust > 5	Western	0.59%	0.77%	0.80%	1.68%	0.36%
	All	0.76%	0.91%	0.84%	1.49%	0.41%

15.9.3.2 Identification and Selection/Process Improvements

See response in section 15.9.1.2.

15.9.3.3 2019 Activities and Budget Allowances

See response in section 15.9.1.3.

15.10 Overhead – Underground Reliability

In 2019, Gulf transitioned to FPL's TCMS (Trouble Call Management System). In this system, circuits are defined as overhead, underground, or hybrid. A circuit with combined feeder and lateral overhead miles greater than or equal to 95% of the total primary miles would be classified as overhead. A circuit with combined feeder and lateral underground miles greater than or equal to 95% of the total primary miles would be classified as underground. The remaining circuits are classified as hybrid – a combination of overhead and underground.

15.10.1 Five Year Patterns

Five years' reliability performance of underground, hybrid and overhead systems

Data	Year	Hybrid	ОН	UG	ALL
	2015	80.58	156.19	45.40	88.20
	2016	85.23	181.86	0.00	94.80
SAIDI	2017	111.58	162.16	0.00	116.13
	2018	90.28	167.84	0.00	96.82
	2019	58.39	8.78	0.00	67.18
	2015	0.943	1.712	0.108	1.020
	2016	1.051	2.060	0.000	1.138
SAIFI	2017	1.198	1.516	0.000	1.197
	2018	1.238	1.806	0.000	1.257
	2019	0.864	0.109	0.000	0.973
	2015	85.48	91.22	420.67	86.46
	2016	82.31	88.01	0.00	83.34
CAIDI	2017	96.89	98.05	0.00	97.03
	2018	76.55	80.03	0.00	77.04
	2019	67.61	80.64	0.00	69.07
	2015	112.22	113.10	420.67	112.42
	2016	106.69	107.77	0.00	106.91
LBAR	2017	124.04	126.77	0.00	124.50
	2018	116.57	115.84	0.00	116.46
	2019	103.83	101.32	0.00	103.46

15.10.2 Identification and Selection/Process Improvements

Now that Gulf has moved to FPL's TCMS software, Gulf also utilizes the actual equipment type that fails in order to determine the performance of its overhead and underground systems. Gulf now has equipment codes that relate specifically to its overhead system (disconnect switches, insulators, jumpers, wire) and underground system (cable, switch cabinets, elbow and terminators).

15.10.3 Promotion of Converting Overhead Facilities to Underground

Gulf supports all customer requests to convert overhead facilities to underground or install new facilities underground. Gulf's staff work to ensure timely and helpful responses to all inquiries into costs and requirements.

15.10.4 Overhead (OH) and Underground (UG) Metrics

See section 15.10.1 for feeder classification criteria. The miles below include only primary circuits (Feeders and Laterals).

2019 Detail

2019 Overhead							
Number of Miles	1,245						
Number of Customers	40,776						
Number of Customer Minutes Interrupted (CMI)	4,113,042						
Number of Customer Interruptions (CI)	51,004						
L-Bar = Minutes of Interruption	<u>173,970</u> = <u>101</u>						
Total Number of Outages	1,717						
2019 Hybrid							
Number of Miles	6,473						
Number of Customers	415,533						
Number of Customer Minutes Interrupted (CMI)	27,344,565						
Number of Customer Interruptions (CI)	404,416						
L-Bar = Minutes of Interruption	<u>1,034,861</u> = <u>104</u>						
Total Number of Outages	9,967						
2019 Underground							
Number of Miles	4						
Number of Customers	0						
Number of Customer Minutes Interrupted (CMI)	0						
Number of Customer Interruptions (CI)	0						
L-Bar = Minutes of Interruption	<u>0</u> = <u>0</u>						
Total Number of Outages	0						

Five Year Pattern

Data	Year	Hybrid	ОН	UG	ALL
	2015	394,630	44,291	136	439,057
Number of Customers	2016	400,727	44,170	131	445,028
	2017	410,922	40,642	1	451,565
Customers	2018	414,005	38,121	1	452,127
	2019	415,533	40,776	6	456,315
	2015	32,553,494	7,081,863	6,310	39,641,668
	2016	34,952,296	8,220,460	0	43,172,756
CMI	2017	46,891,337	6,740,018	0	53,631,356
	2018	38,273,614	6,551,874	0	44,825,488
	2019	27,344,565	4,113,042	0	31,457,607
	2015	380,842	77,632	15	458,489
	2016	424,634	93,409	0	518,043
CI	2017	483,974	68,742	0	552,716
	2018	499,963	81,867	0	581,830
	2019	404,416	51,004	0	455,420
	2015	2.11	3.26	0.00	2.23
	2016	2.08	2.76	0.00	2.14
MAIFIe	2017	2.55	1.33	0.00	2.44
	2018	2.09	1.85	0.00	2.07
	2019	2.09	3.17	0.00	2.13

Number of customers is calculated on active accounts in TCMS and does not include non-metered customers

15.11 Reliability Related Customer Complaints

15.11.1 Five Year Patterns

Gulf's five-year history for reliability-related customer complaints:

Year	No.
2015	3
2016	2
2017	0
2018	0
2019	0

15.11.2 Correlation of Reliability Related Customer Complaints to Indices

Due to improved reliability over the years and the low number of customer complaints, Gulf has not determined that there is a correlation between reliability-related customer complaints and the indices.

Gulf addresses reliability complaints on a case-by-case basis. Lessons learned from issues and resolutions identified may be incorporated into our processes, if deemed appropriate. Gulf also utilizes certain reliability programs, e.g., Recurring Trouble Report and other system improvements, to address customer complaints.

15.11.3 Identification and Selection/Process Improvements

Due to Gulf's very low number of FPSC Consumer Activity Report complaints and no apparent correlation of reliability-related customer complaints to outage indices, Gulf has not implemented any programs to identify and select systemic actions to improve reliability based solely on customer complaints. Gulf does continue to review outage information, historical performance, and reliability indices to determine and mitigate future issues, reoccurrence, and overall improvement of the system on an ongoing basis.

APPENDIX

ANNUAL DISTRIBUTION RELIABILITY REPORT 2019

SAIDI	=	= System Average Interruption Duration Index		
	=	Sum of All Customer Minutes Interrupted (CMI) Total number of Customers Served (C)	31,457,607 468,283	67.18
CAIDI	=	Customer Average Interruption Duration Index		
	=	Sum of All Customer Minutes Interruptions (CMI) Total number of Customer Interruptions (CI)	31,457,607 455,420	69.07
SAIFI	=	System Average Interruption Frequency Index		
	=	Total number of Customer Interruptions (CI) Total number of Customers Served (C)	<u>455,420</u> 468,283	0.973
MAIFIe	=	Momentary Average Interruption Event		
	=	Sum of All Customer Momentary Interruption Events (CME) Total number of Customers Served (C)	997,723 468,283	2.13
L BAR	=	Minutes of Interruption (AO) Total Number of Outages (# of Outages)	<u>1,208,831</u> 11,684	103.46
%CEMI-5	=	Sum of CEMI-5 Customers (# Cust>5) Total number of Customers Served (C)	<u>1,914</u> 468,283	0.41%

Service Reliability Indices Data

Utility Name: Gulf Power Company

Year: 2019

District or Service Area	Customers Served (C)	# of Outages	СМІ	CI	AO	CME	# Cust > 5	MAIFIe Customer Served
Central	120,399	2,692	6,963,537	88,054	257,877	244,136	135	120,399
Eastern	115,446	2,829	7,977,962	129,658	316,748	269,204	950	115,446
Western	232,438	6,163	16,516,108	237,708	634,206	484,383	829	232,438
Gulf Power	468,283	11,684	31,457,607	455,420	1,208,831	997,723	1,914	468,283

PSC/ECR 102-1(a)
Incorporated by reference in Rule 25-6.0455

Causes of Outage Events - Actual									
Utility Name: Gulf Pov	ver	Year: 2019							
-									
	Normale and a figure and	A	A Destauation Time						
	Number of Outage	Average Duration	Average Restoration Time						
	Events (N)	(L-Bar)	(CAIDI)						
Cause (a)	(b)	(c)	(d)						
All Other Causes	7,102	75.42	35.89						
Animal	2,509	65.23	58.62						
Defective Equipment	2,670	132.11	82.54						
Lightning	1,470	117.73	79.61						
Other Weather	347	116.95	107.41						
Unknown	1,220	88.92	61.03						
Vegetation	2,524	102.17	75.03						
Vehicle	448	149.62	107.16						
System Total	18,290	92.89	67.19						

PSC/ECR 102-1(b)
Incorporated by reference in Rule 25-6.0455

Causes of Outage Events - Adjusted									
Utility Name: Gulf Pov	ver		Year: 2019						
	Number of Outage	Average Duration	Average Restoration Time						
	Events (N)	(L-Bar)	(CAIDI)						
Cause (a)	(b)	(c)	(d)						
All Other Causes	652	98.16	29.17						
Animal	2,495	65.36	58.66						
Defective Equipment	2,630	131.96	83.15						
Lightning	1,437	117.21	78.75						
Other Weather	331	115.60	107.50						
Unknown	1,211	88.98	60.99						
Vegetation	2,485	102.20	74.91						
Vehicle	443	149.68	107.42						
System Total	11,684	103.46	69.07						

PSC/ECR 102-2(a)

1 30/	TUDES DEDCEMT SECOND LIST. ACTUAL												
	THREE PERCENT FEEDER LIST - ACTUAL												
	Gulf Power Company								Yea	r: 2019			
				Number o	f Customer	S]					
Primary Circuit Id. No.								Number of Outage Events	Average Duration	Average Restoration Time	Listed Last	No. of Years in	
or Name	Substation Origin	Location	Residential	Commercial	Industrial	Other	Total	(N)	(L-Bar)	(CAIDI)	Year?	the Last 5	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	
909092	Appalachee	PC	3	10	1	-	14	6	58.32	54.14	N	0	
906642	Goulding	PN	425	256	2	-	683	5	60.71	41.49	N	0	
908142	Powell Lake	PC	1,127	168	-	-	1,295	4	5.35	5.35	N	0	
908952	Smith Construction	PC	-	25	-	-	25	4	51.88	51.88	N	0	
907742	Bayou Marcus	PN	2,039	62	-	-	2,101	3	37.80	38.15	N	0	
915762	Devilliers	PN	446	378	-	-	824	3	14.58	15.00	N	0	
907762	Fairfield	PN	1,297	102	-	-	1,399	2	44.27	48.45	N	0	
908972	Phillips Inlet	PC	3,453	269	-	-	3,722	2	6.36	6.36	N	0	
908412	Greenwood	PC	924	432	-	-	1,356	2	11.99	13.37	N	0	
907512	Gulf Breeze	PN	1,448	272	-	-	1,720	2	14.13	14.13	Ν	0	

PSC/ECR 102-2(b)

130	PSC/ECR 102-2(b)											
	THREE PERCENT FEEDER LIST - ADJUSTED											
		wer Company		Yea	r: 2019							
				Number o	f Customer	S		<u>.</u> .				
Primary Circuit Id. No. or Name (a)	Substation Origin (b)	Location (c)	Residential (d)	Commercial (e)	Industrial (f)	Other (g)	Total (h)	Number of Outage Events (N) (i)	Average Duration (L-Bar) (j)	Average Restoration Time (CAIDI) (k)	Listed Last Year? (I)	No. of Years in the Last 5 (m)
909092	Appalachee	PC	3	10	1	(8)	14	6	58.32	54.14	N	0
908142	Powell Lake	PC	1,127	168	-	-	1,295	4	5.35	5.35	N	0
906642	Goulding	PN	425	256	2	-	683	4	73.67	55.13	N	1
907742	Bayou Marcus	PN	2,039	62	-	-	2,101	3	37.80	38.15	N	0
915762	Devilliers	PN	446	378	-	-	824	3	14.58	15.00	N	0
907762	Fairfield	PN	1,297	102	-	-	1,399	2	44.27	48.45	N	0
906412	Milligan	FW	748	117	-	-	865	2	49.10	49.26	N	0
906942	Cantonment	PN	1,673	131	2	-	1,806	2	59.20	59.21	N	0
907512	Gulf Breeze	PN	1,448	272	-	-	1,720	2	14.13	14.13	N	0
908132	Powell Lake	PC	2,127	364	-	-	2,491	2	2.15	2.15	N	0

PSC/ECR 102-3(a)

System Reliability Indices - Actual											
Utility Name: Gulf Power		Ye	ear: 2019								
District or Service Area (a)											
Central	62.69	76.67	0.82	2.12							
Eastern	82.55	60.44	1.37	2.44							
Western	75.20	67.70	1.11	2.09							
System Total	73.79	67.19	1.10	2.19							

PSC/ECR 102-3(b)

13C/LCN 102-3(b)											
System Reliability Indices - Adjusted											
Utility Name: Gulf Power Year: 2019											
District or Service Area	SAIDI	CAIDI	SAIFI	MAIFIe	CEMI5						
(a)	(b)	(c)	(d)	(e)	(f)						
Central	57.84	79.08	0.73	2.03	0.11%						
Eastern	69.11	61.53	1.12	2.33	0.82%						
Western 71.06 69.48 1.02 2.08 0.36											
System Total	67.18	69.07	0.97	2.13	0.41%						

Actual Data: Customer Minutes of Interruption (CMI), Customer Interruptions (CI) and Documented Exclusions

2019	Customer Minutes of Interruption (CMI)		Customer Interruptions	
	Value	% of Actual	Value	% of Actual
Reported Actual Data (1)	34,556,016	100%	514,302	100%
Documented Exclusions				
Planned Service Interruptions	2,457,995	7.1%	50,144	9.7%
Tropical Storm	295,138	0.9%	6,477	1.3%
Tornado	345,276	1.0%	2,261	0.4%
Hurricane				
Ice on Lines				
Subtropical Storm				
Generation/Transmission Events (2)	6,613,005	N/A	125,109	N/A
Extreme Weather (EOC Activation/Fire)				
Reported Adjusted Data	31,457,607	91.0%	455,420	88.6%

Notes

- (1) Excluded Generation/Transmission Events per 25-6.0455(2)
- (2) Informational only, as reported actual data already excludes Generation/Transmission Events

Q10 – Distribu	ition Excluded Extr	eme Weath	er Outage I	Events
Causation	Date	CI	CMI	L-Bar
Tornado	1/19/2019	1	462	461.5
Tornado	1/19/2019	146	17,958	123.0
Tornado	1/19/2019	2	139	69.4
Tornado	1/19/2019	1	257	257.0
Tornado	1/19/2019	28	2,302	82.2
Tornado	1/19/2019	2	220	110.0
Tornado	1/19/2019	1	37	36.7
Tornado	1/19/2019	4	431	107.7
Tornado	1/19/2019	3	577	192.3
Tornado	1/19/2019	1	18	17.7
Tornado	1/19/2019	1	59	59.0
Tornado	1/19/2019	2	181	90.4
Tornado	1/19/2019	2	852	425.8
Tornado	1/19/2019	38	8,968	236.0
Tornado	1/19/2019	4	219	54.9
Tornado	1/19/2019	291	43,039	147.9
Tornado	1/19/2019	32	8,823	275.7
Tornado	1/19/2019	247	51,915	210.2
Tornado	1/19/2019	53	8,427	159.0
Tornado	1/19/2019	1	154	154.0
Tornado	1/19/2019	9	1,413	157.0
Tornado	1/19/2019	27	5,600	207.4
Tornado	1/19/2019	7	1,687	241.0
Tornado	1/19/2019	142	20,874	147.0
Tornado	1/19/2019	373	52,811	141.6
Tornado	1/19/2019	72	10,244	142.3
Tornado	1/19/2019	2	462	231.0
Tornado	1/19/2019	263	42,939	163.3
Tornado	1/19/2019	1	84	84.4
Tornado	1/19/2019	31	3,826	123.4
Tornado	1/19/2019	3	543	180.9
Tornado	1/19/2019	1	406	405.7
Tornado	1/19/2019	2	222	110.9
Tornado	1/19/2019	1	125	125.0
Tornado	1/19/2019	1	118	118.2
Tornado	1/19/2019	4	58	14.4
Tornado	1/19/2019	1	59	59.0
Tornado	1/19/2019	7	254	36.2
Tornado	3/3/2019	64	15,955	249.3
Tornado	3/3/2019	2	52	26.0
Tornado	3/3/2019	3	691	230.5
Tornado	3/3/2019	3	376	125.2
Tornado	3/3/2019	5	250	50.0
Tornado	3/3/2019	2	54	27.0
Tornado	3/3/2019	1	55	55.0
Tornado	3/3/2019	23	2,338	101.7
Tornado	3/3/2019	7	523	74.7
Tornado	3/3/2019	40	2,400	60.0

Q10 – Distribu	ıtion Excluded Exti	eme Weath	er Outage E	vents
Causation	Date	CI	CMI	L-Bar
Tornado	3/3/2019	1	62	62.0
Tornado	3/3/2019	1	72	72.0
Tornado	3/3/2019	25	1,875	75.0
Tornado	3/3/2019	7	539	77.0
Tornado	3/3/2019	1	24	23.6
Tornado	3/3/2019	30	2,070	69.0
Tornado	3/3/2019	50	4,700	94.0
Tornado	3/3/2019	51	8,925	175.0
Tornado	3/3/2019	2	167	83.5
Tornado	3/3/2019	30	2,180	72.7
Tornado	3/3/2019	1	99	99.1
Tornado	3/3/2019	6	1,007	167.8
Tornado	3/3/2019	7	574	82.0
Tornado	3/3/2019	47	7,945	169.0
Tornado	3/3/2019	3	786	262.0
Tornado	3/3/2019	14	1,165	83.2
Tornado	3/3/2019	1	88	88.4
Tornado	3/3/2019	12	720	60.0
Tornado	3/3/2019	1	147	146.6
Tornado	3/3/2019	2	589	294.6
Tornado	3/3/2019	1	334	334.0
Tornado	3/3/2019	2	180	90.0
Tornado	3/3/2019	3	885	295.0
Tornado	3/3/2019	3	356	118.8
Tornado	3/3/2019	1	69	69.0
Tornado	3/3/2019	1	147	146.7
Tornado	3/3/2019	1	116	116.0
Tropical Storm	7/11/2019	1	205	204.8
Tropical Storm	7/11/2019	4	244	61.0
Tropical Storm	7/11/2019	1	30	30.4
Tropical Storm	7/11/2019	5	1,350	270.0
Tropical Storm	7/11/2019	1	120	120.0
Tropical Storm	7/11/2019	13	1,009	77.6
Tropical Storm	7/11/2019	1	57	57.0
Tropical Storm	7/11/2019	1	131	131.0
Tropical Storm	7/11/2019	1	54	54.0
Tropical Storm	7/11/2019	15	467	31.1
Tropical Storm	7/11/2019	19	564	29.7
Tropical Storm	7/11/2019	13	532	40.9
Tropical Storm	7/11/2019	4	164	41.0
Tropical Storm	7/11/2019	3	161	53.8
Tropical Storm	7/11/2019	1	160	160.3
Tropical Storm	7/11/2019	12	504	42.0
Tropical Storm	7/11/2019	6	96	16.0
Tropical Storm	7/11/2019	2	30	15.0
Tropical Storm	7/11/2019	1	43	42.7
Tropical Storm	7/11/2019	57	6,686	117.3
Tropical Storm	7/11/2019	1	8	7.9

Q10 – Distribut	ion Excluded Extr	eme Weath	er Outage I	Events
Causation	Date	CI	CMI	L-Bar
Tropical Storm	7/11/2019	1	143	143.5
Tropical Storm	7/11/2019	1	26	26.0
Tropical Storm	7/11/2019	3	99	33.0
Tropical Storm	7/11/2019	1	44	44.0
Tropical Storm	7/11/2019	2	85	42.6
Tropical Storm	7/11/2019	1	177	176.8
Tropical Storm	7/11/2019	5	499	99.8
Tropical Storm	7/11/2019	1	50	49.8
Tropical Storm	7/12/2019	51	5,814	114.0
Tropical Storm	7/12/2019	4	444	111.0
Tropical Storm	7/12/2019	1	91	91.0
Tropical Storm	7/12/2019	1	4	4.0
Tropical Storm	7/12/2019	1,453	87,253	60.1
Tropical Storm	7/12/2019	1	39	38.8
Tropical Storm	7/12/2019	539	9,954	18.5
Tropical Storm	7/12/2019	113	4,294	38.0
Tropical Storm	7/12/2019	5	450	90.0
Tropical Storm	7/12/2019	1	61	61.0
Tropical Storm	7/12/2019	1	14	14.4
Tropical Storm	7/12/2019	17	1,271	74.8
Tropical Storm	7/12/2019	1	71	71.0
Tropical Storm	7/12/2019	3	489	163.0
Tropical Storm	7/12/2019	51	2,550	50.0
Tropical Storm	7/12/2019	3	291	97.0
Tropical Storm	7/12/2019	4	684	171.0
Tropical Storm	7/12/2019	1	190	190.0
Tropical Storm	7/12/2019	2	144	71.9
Tropical Storm	7/12/2019	10	198	19.8
Tropical Storm	7/13/2019	3	198	66.0
Tropical Storm	7/13/2019	5	1,053	210.6
Tropical Storm	7/13/2019	78	9,833	126.1
Tropical Storm	7/13/2019	1	386	386.3
Tropical Storm	7/13/2019	2	451	225.3
Tropical Storm	7/13/2019	3	347	115.8
Tropical Storm	7/13/2019	6	817	136.2
Tropical Storm	7/13/2019	70	7,334	104.8
Tropical Storm	7/13/2019	1	53	53.0
Tropical Storm	7/13/2019	4	161	40.2
Tropical Storm	7/13/2019	7	210	30.0
Tropical Storm	7/13/2019	1	53	53.0
Tropical Storm	7/13/2019	2	124	62.0
Tropical Storm	7/13/2019	2	377	188.6
Tropical Storm	7/13/2019	4	268	67.0
Tropical Storm	7/13/2019	438	10,286	23.5
Tropical Storm	7/13/2019	9	484	53.8
Tropical Storm	7/13/2019	4	1,184	296.0
Tropical Storm	7/13/2019	2	288	144.0
Tropical Storm	7/13/2019	1	51	51.0

Q10 – Distribut	ion Excluded Extr	eme Weath	er Outage	Events
Causation	Date	CI	CMI	L-Bar
Tropical Storm	7/13/2019	7	577	82.5
Tropical Storm	7/13/2019	6	426	71.0
Tropical Storm	7/13/2019	1	63	63.0
Tropical Storm	7/14/2019	10	1,230	123.0
Tropical Storm	7/14/2019	30	3,391	113.0
Tropical Storm	7/14/2019	35	4,527	129.3
Tropical Storm	7/14/2019	1	77	77.0
Tropical Storm	7/14/2019	7	308	44.0
Tropical Storm	7/14/2019	3	90	30.0
Tropical Storm	7/14/2019	11	968	88.0
Tropical Storm	7/14/2019	62	2,542	41.0
Tropical Storm	7/14/2019	17	476	28.0
Tropical Storm	7/14/2019	1	73	73.0
Tropical Storm	7/14/2019	1	31	31.0
Tropical Storm	7/14/2019	1	97	97.2
Tropical Storm	7/14/2019	1	146	146.2
Tropical Storm	7/14/2019	5	1,540	308.0
Tropical Storm	7/14/2019	1	349	349.2
Tropical Storm	7/14/2019	1	37	37.0
Tropical Storm	7/14/2019	7	2,048	292.5
Tropical Storm	7/14/2019	1	43	43.0
Tropical Storm	7/14/2019	1	79	79.0
Tropical Storm	7/14/2019	3	140	46.5
Tropical Storm	7/14/2019	1	122	122.3
Tropical Storm	7/14/2019	1	76	76.0
Tropical Storm	7/14/2019	1	58	57.7
Tropical Storm	7/14/2019	18	1,674	93.0
Tropical Storm	7/14/2019	6	438	73.0
Tropical Storm	7/14/2019	1	38	38.0
Tropical Storm	7/14/2019	1	118	118.0
Tropical Storm	7/14/2019	1	110	110.0
Tropical Storm	10/18/2019	2	30	15.0
Tropical Storm	10/18/2019	1	19	19.0
Tropical Storm	10/18/2019	3	183	61.0
Tropical Storm	10/18/2019	1	62	62.0
Tropical Storm	10/18/2019	2	80	40.0
Tropical Storm	10/18/2019	1,365	82,877	73.0
Tropical Storm	10/18/2019	27	3,105	115.0
Tropical Storm	10/19/2019	35	4,095	117.0
Tropical Storm	10/19/2019	1,578	11,046	7.0
Tropical Storm	10/19/2019	1	81	81.0
Tropical Storm	10/19/2019	2	134	67.0
Tropical Storm	10/19/2019	1	80	80.0
Tropical Storm	10/19/2019	2	20	10.0
Tropical Storm	10/19/2019	28	2,240	80.0
Tropical Storm	10/19/2019	54	3,186	59.0
Tropical Storm	10/19/2019	1	48	48.0
Tropical Storm	10/19/2019	2	98	49.0

Q10 – Distribution Excluded Extreme Weather Outage Events					
Causation Date CI CMI L-Bar					
Tropical Storm	10/19/2019	2	162	81.0	
Tropical Storm	10/19/2019	36	3,096	86.0	
Tropical Storm	10/19/2019	7	539	77.0	
Tropical Storm	10/19/2019	2	64	32.0	

Q13 – Distribution Excluded Outage Events					
Causation	Date	CI	CMI	L-Bar	
Planned	1/1/2019	10	617	61.7	
Planned	1/1/2019	3	79	26.4	
Planned	1/1/2019	4	139	34.7	
Planned	1/1/2019	6	168	27.9	
Planned	1/1/2019	3	28	9.3	
Customer Request	1/1/2019	1	125	125.2	
Planned	1/2/2019	1	22	22.4	
Planned	1/2/2019	5	55	10.9	
Planned	1/2/2019	1	98	98.3	
Planned	1/2/2019	3	876	292.1	
Planned	1/2/2019	3	243	81.1	
Planned	1/2/2019	1	228	228.0	
Planned	1/2/2019	1	15	14.6	
Planned	1/2/2019	1	15	15.2	
Planned	1/2/2019	5	481	96.3	
Planned	1/2/2019	2	361	180.6	
Planned	1/2/2019	1	6	5.7	
Planned	1/2/2019	3	47	15.6	
Planned	1/2/2019	2	24	12.2	
Planned	1/2/2019	3	56	18.8	
Planned	1/2/2019	68	2,456	36.1	
Planned	1/2/2019	5	154	30.9	
Planned	1/2/2019	5	855	171.0	
Planned	1/2/2019	13	304	23.4	
Planned	1/2/2019	4	171	42.8	
Planned	1/2/2019	1	43	42.9	
Planned	1/2/2019	3	173	57.6	
Planned	1/2/2019	5	72	14.5	
Planned	1/2/2019	6	173	28.8	
Planned	1/2/2019	8	1,403	175.3	
Planned	1/2/2019	4	1,167	291.7	
Planned	1/2/2019	5	48	9.6	
Planned	1/3/2019	4	516	128.9	
Planned	1/3/2019	1	82	81.8	
Planned	1/3/2019	6	199	33.2	
Planned	1/3/2019	1	70	70.4	
Planned	1/3/2019	1	331	331.5	
Planned	1/3/2019	5	408	81.7	
Planned	1/3/2019	1	33	33.3	

Q13 – Distribution Excluded Outage Events					
Causation	Date	CI	CMI	L-Bar	
Planned	1/3/2019	1	125	125.0	
Planned	1/3/2019	4	284	70.9	
Planned	1/3/2019	3	26	8.6	
Planned	1/3/2019	6	580	96.6	
Planned	1/3/2019	2	52	25.8	
Planned	1/3/2019	4	894	223.5	
Planned	1/3/2019	1	67	66.8	
Planned	1/3/2019	1	126	126.0	
Planned	1/3/2019	1	23	23.3	
Planned	1/3/2019	2	79	39.6	
Planned	1/3/2019	3	61	20.4	
Planned	1/3/2019	1	128	128.5	
Planned	1/3/2019	3	119	39.5	
Customer Request	1/3/2019	1	46	45.7	
Planned	1/4/2019	3	386	128.6	
Planned	1/4/2019	1	199	199.1	
Planned	1/4/2019	1	42	42.0	
Planned	1/4/2019	3	74	24.6	
Planned	1/4/2019	4	196	49.0	
Planned	1/4/2019	2	30	14.9	
Planned	1/4/2019	1	230	230.3	
Planned	1/4/2019	1	135	134.8	
Planned	1/4/2019	1	40	39.8	
Planned	1/4/2019	2	280	139.8	
Planned	1/4/2019	8	1,853	231.6	
Planned	1/4/2019	2	68	33.9	
Planned	1/4/2019	1	117	116.9	
Planned	1/4/2019	14	1,036	74.0	
Planned	1/4/2019	3	136	45.5	
Planned	1/4/2019	3	222	74.1	
Planned	1/4/2019	1	92	92.0	
Planned	1/4/2019	1	46	45.9	
Planned	1/4/2019	2	56	27.9	
Planned	1/4/2019	1	356	355.7	
Customer Request	1/4/2019	1	128	128.3	
Customer Request	1/4/2019	1	29	29.1	
Planned	1/5/2019	5	214	42.9	
Planned	1/5/2019	29	15,074	519.8	
Planned	1/5/2019	1	26	25.7	
Planned	1/5/2019	3	716	238.6	
Planned	1/5/2019	1	15	15.3	
Planned	1/5/2019	1	137	136.6	
Planned	1/5/2019	3	43	14.3	
	1/5/2019	4	828	207.0	
Planned Planned		4		32.3	
	1/5/2019	1	129		
Customer Request	1/5/2019		52	52.0	
Customer Request	1/5/2019	1	30	30.0	
Customer Request	1/5/2019	1	116	116.0	

Q13 – Distribution Excluded Outage Events				
Date	CI	CMI	L-Bar	
1/6/2019	9	3,845	427.3	
1/6/2019	6	653	108.8	
1/6/2019	1	64	63.7	
1/6/2019	2	181	90.5	
1/7/2019	1	20	20.5	
1/7/2019	1	342	341.8	
1/7/2019	7	1,199	171.3	
1/7/2019	1	22	22.0	
1/7/2019	2	1,047	523.6	
1/7/2019	1	263	263.4	
1/7/2019	4	588	147.0	
1/7/2019	4	763	190.8	
1/7/2019	1	48	48.2	
1/7/2019	3	183	60.9	
1/7/2019	7	724	103.4	
1/7/2019	1	149	149.0	
	1	157	157.4	
	2		226.1	
			107.2	
			122.5	
			89.5	
		+	43.3	
			134.1	
		+	18.2	
			73.6	
			11.7	
			45.3	
			57.0	
			95.0	
			558.2	
			38.9	
			316.4	
			508.2	
			32.3	
		+	70.4	
		_	129.1	
		+	135.9	
· ·			75.3	
			47.6	
			60.3	
<u> </u>			82.0	
			121.8	
			33.3	
		+	38.6	
			407.0	
			19.3	
			17.9	
1/8/2019	1	48	48.4	
	Date 1/6/2019 1/6/2019 1/6/2019 1/6/2019 1/6/2019 1/7/2019 1/8/2019 1/	Date CI 1/6/2019 9 1/6/2019 6 1/6/2019 1 1/6/2019 2 1/6/2019 2 1/7/2019 1 1/7/2019 1 1/7/2019 1 1/7/2019 1 1/7/2019 1 1/7/2019 4 1/7/2019 4 1/7/2019 3 1/7/2019 3 1/7/2019 1 1/7/2019 1 1/7/2019 1 1/7/2019 1 1/7/2019 1 1/7/2019 1 1/7/2019 1 1/7/2019 1 1/7/2019 1 1/7/2019 1 1/7/2019 1 1/7/2019 1 1/7/2019 1 1/8/2019 1 1/8/2019 1 1/8/2019 1 1/8/2019 1	Date CI CMI 1/6/2019 9 3,845 1/6/2019 6 653 1/6/2019 1 64 1/6/2019 2 181 1/7/2019 1 20 1/7/2019 1 342 1/7/2019 7 1,199 1/7/2019 1 22 1/7/2019 1 263 1/7/2019 4 588 1/7/2019 4 588 1/7/2019 4 763 1/7/2019 3 183 1/7/2019 3 183 1/7/2019 3 183 1/7/2019 1 149 1/7/2019 1 149 1/7/2019 1 149 1/7/2019 1 157 1/7/2019 1 18 1/7/2019 1 18 1/7/2019 1 18 1/7/2019 1 18	

Q13 – D	Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar	
Planned	1/8/2019	1	111	111.1	
Planned	1/8/2019	3	67	22.2	
Planned	1/8/2019	1	70	69.8	
Planned	1/8/2019	1	66	65.6	
Planned	1/8/2019	4	387	96.7	
Planned	1/8/2019	1	16	16.3	
Planned	1/8/2019	2	273	136.5	
Planned	1/8/2019	5	340	68.0	
Planned	1/8/2019	1	14	13.8	
Planned	1/8/2019	1	367	367.0	
Planned	1/8/2019	2	28	13.9	
Planned	1/8/2019	5	237	47.5	
Planned	1/8/2019	5	295	59.1	
Planned	1/8/2019	1	26	26.0	
Planned	1/8/2019	6	649	108.1	
Planned	1/8/2019	4	150	37.4	
Planned	1/8/2019	1	20	20.4	
Planned	1/8/2019	7	177	25.3	
Planned	1/8/2019	1	29	28.7	
Planned	1/9/2019	1	158	157.9	
Planned	1/9/2019	4	133	33.3	
Planned	1/9/2019	1	64	64.0	
Planned	1/9/2019	44	6,262	142.3	
Planned	1/9/2019	2	319	159.5	
Planned	1/9/2019	1	65	65.0	
Planned	1/9/2019	24	2,766	115.3	
Planned	1/9/2019	2	306	152.9	
Planned	1/9/2019	1	100	99.7	
Planned	1/9/2019	1	37	36.5	
Planned	1/9/2019	3	460	153.3	
Planned	1/9/2019	1	96	96.1	
Planned	1/9/2019	1	267	267.0	
Planned	1/9/2019	3	253	84.4	
Planned	1/9/2019	1	83	82.6	
Planned	1/9/2019	110	13,035	118.5	
Planned	1/9/2019	1	222	221.8	
Planned	1/9/2019	8	2,965	370.6	
Planned	1/9/2019	1	28	27.9	
Planned	1/9/2019	6	37	6.1	
Planned	1/9/2019	1	29	29.4	
Planned	1/9/2019	23	5,635	245.0	
Planned	1/9/2019	2	19	9.5	
Planned	1/9/2019	1	12	11.8	
Planned	1/9/2019	3	154	51.4	
Planned	1/9/2019	1	64	63.7	
Planned	1/9/2019	5	317	63.4	
Planned	1/9/2019	2	119	59.5	
Planned	1/9/2019	1	187	186.7	

Q13 – I	Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar	
Planned	1/9/2019	3	262	87.3	
Planned	1/9/2019	20	1,043	52.2	
Planned	1/9/2019	1	87	86.8	
Planned	1/9/2019	1	84	83.6	
Planned	1/9/2019	4	88	22.1	
Planned	1/9/2019	2	309	154.6	
Planned	1/9/2019	20	1,405	70.3	
Planned	1/9/2019	2	103	51.7	
Planned	1/9/2019	1	18	17.8	
Planned	1/10/2019	8	909	113.7	
Planned	1/10/2019	1	301	300.8	
Planned	1/10/2019	1	126	125.9	
Planned	1/10/2019	16	538	33.7	
Planned	1/10/2019	1	294	293.9	
Planned	1/10/2019	1	32	31.5	
Planned	1/10/2019	2	229	114.3	
Planned	1/10/2019	1	38	37.8	
Planned	1/10/2019	1	183	183.0	
Planned	1/10/2019	2	63	31.5	
Planned	1/10/2019	29	843	29.1	
Planned	1/10/2019	7	411	58.8	
Planned	1/10/2019	6	129	21.5	
Planned	1/10/2019	20	476	23.8	
Planned	1/10/2019	2	388	194.1	
Planned	1/10/2019	3	589	196.5	
Planned	1/10/2019	12	654	54.5	
Planned	1/10/2019	1	192	191.5	
Planned	1/10/2019	1	29	28.7	
Planned	1/10/2019	1	15	15.5	
Planned	1/10/2019	3	119	39.7	
Planned	1/10/2019	3	224	74.6	
Planned	1/10/2019	2	286	142.8	
Planned	1/10/2019	1	10	9.9	
	1/10/2019	1	24	24.5	
Planned Planned	1/10/2019	1	36	35.8	
Planned	1/10/2019	9	202	22.5	
Planned		9 1	16	16.4	
	1/10/2019				
Planned	1/10/2019	7	194	27.7	
Planned	1/10/2019	5	1,388	277.5	
Planned	1/10/2019	4	292	72.9	
Planned	1/10/2019	1	54	54.3	
Planned	1/10/2019	1	23	23.2	
Planned	1/10/2019	2	53	26.3	
Planned	1/10/2019	6	271	45.2	
Planned	1/10/2019	1	31	31.1	
Planned	1/10/2019	3	66	22.1	
Planned	1/10/2019	1	23	22.9	
Planned	1/10/2019	8	195	24.4	

Q13 – D	Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar	
Planned	1/10/2019	11	224	20.4	
Planned	1/10/2019	7	804	114.8	
Planned	1/10/2019	10	1,139	113.9	
Planned	1/10/2019	1	51	50.8	
Planned	1/10/2019	1	44	43.9	
Planned	1/10/2019	1	35	34.7	
Planned	1/10/2019	1	35	34.6	
Planned	1/10/2019	1	22	21.7	
Planned	1/10/2019	3	100	33.2	
Planned	1/10/2019	3	60	19.8	
Planned	1/10/2019	12	874	72.9	
Planned	1/10/2019	4	159	39.8	
Planned	1/11/2019	1	40	40.2	
Planned	1/11/2019	2	274	136.8	
Planned	1/11/2019	106	22,691	214.1	
Planned	1/11/2019	1	46	46.3	
Planned	1/11/2019	3	61	20.5	
Planned	1/11/2019	13	1,835	141.2	
Planned	1/11/2019	1	71	71.2	
Planned	1/11/2019	4	305	76.4	
Planned	1/11/2019	1	54	54.1	
Planned	1/11/2019	3	193	64.5	
Planned	1/11/2019	1	64	64.4	
Planned	1/11/2019	4	605	151.2	
Planned	1/11/2019	1	59	58.6	
Planned	1/11/2019	1	53	52.6	
Planned	1/11/2019	4	87	21.7	
Planned	1/11/2019	1	258	258.0	
Planned	1/11/2019	8	866	108.3	
Planned	1/11/2019	1	49	48.6	
Planned	1/11/2019	9	427	47.4	
Planned	1/11/2019	3	90	30.1	
Planned	1/11/2019	1	32	31.6	
			14		
Planned	1/11/2019	1		13.6	
Planned	1/11/2019	1	20	19.7	
Planned	1/11/2019	1	18	18.0	
Planned	1/11/2019	1	206	206.0	
Planned	1/11/2019	4	130	32.5	
Planned	1/11/2019	1	8	8.3	
Planned	1/11/2019	3	239	79.5	
Planned	1/11/2019	1	55	54.6	
Planned	1/11/2019	2	238	119.0	
Planned	1/11/2019	1	29	28.9	
Planned	1/11/2019	8	272	34.0	
Planned	1/11/2019	4	95	23.8	
Planned	1/11/2019	4	67	16.8	
Customer Request	1/11/2019	1	117	117.3	
Customer Request	1/11/2019	1	44	44.0	

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	1/12/2019	1	134	133.6
Planned	1/12/2019	1	246	245.8
Planned	1/12/2019	17	450	26.5
Planned	1/12/2019	1	7	6.9
Planned	1/12/2019	1	88	87.6
Planned	1/12/2019	1	151	151.0
Planned	1/12/2019	1	102	102.4
Customer Request	1/12/2019	1	143	143.0
Planned	1/13/2019	1	18	18.5
Planned	1/13/2019	1	17	17.1
Planned	1/13/2019	2	23	11.3
Planned	1/13/2019	1	55	55.1
Planned	1/13/2019	6	171	28.6
Planned	1/13/2019	4	1,104	276.1
Planned	1/13/2019	2	49	24.3
Planned	1/13/2019	4	309	77.1
Planned	1/13/2019	2	27	13.6
Planned	1/14/2019	7	98	14.0
Planned	1/14/2019	2	62	31.0
Planned	1/14/2019	3	50	16.7
Planned	1/14/2019	1	107	107.4
Planned	1/14/2019	6	975	162.6
Planned	1/14/2019	6	1,832	305.4
Planned	1/14/2019	1	103	102.7
Planned	1/14/2019	5	109	21.9
Planned	1/14/2019	1	294	293.8
Planned	1/14/2019	1	26	26.2
Planned	1/14/2019	6	480	80.0
Planned	1/14/2019	21	2,410	114.8
Planned	1/14/2019	8	902	112.8
Planned	1/14/2019	4	119	29.7
Planned	1/14/2019	1	490	489.6
Planned	1/14/2019	3	360	120.0
Planned	1/14/2019	3	99	33.0
Planned	1/14/2019	1	54	53.7
Planned	1/14/2019	7	1,091	155.9
Planned	1/14/2019	14	585	41.8
Planned	1/14/2019	1	82	82.4
Planned	1/14/2019	5	293	58.7
Planned	1/14/2019	1	119	118.6
Planned	1/14/2019	5	405	81.1
Planned	1/14/2019	5	522	104.4
Planned	1/14/2019	11	339	30.9
Planned	1/14/2019	4	236	59.1
Planned	1/15/2019	1	160	160.0
Planned	1/15/2019	5	126	25.3
Planned	1/15/2019	1	102	102.3
Planned	1/15/2019	1	285	284.7

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	1/15/2019	1	26	26.0
Planned	1/15/2019	8	2,238	279.8
Planned	1/15/2019	1	105	104.9
Planned	1/15/2019	5	269	53.8
Planned	1/15/2019	3	193	64.3
Planned	1/15/2019	78	1,814	23.3
Planned	1/15/2019	1	106	106.0
Planned	1/15/2019	1	248	248.0
Planned	1/15/2019	3	651	217.2
Planned	1/15/2019	1	24	24.4
Planned	1/15/2019	1	67	66.7
Planned	1/15/2019	2	259	129.5
Planned	1/15/2019	1	30	30.0
Planned	1/15/2019	4	144	36.0
Planned	1/15/2019	6	183	30.5
Planned	1/15/2019	1	88	88.5
Planned	1/15/2019	1	11	11.4
Customer Request	1/15/2019	1	49	49.0
Planned	1/16/2019	1	98	98.2
Planned	1/16/2019	24	270	11.3
Planned	1/16/2019	1	11	11.4
Planned	1/16/2019	2	425	212.6
Planned	1/16/2019	6	2,235	372.4
Planned	1/16/2019	1	94	93.7
Planned	1/16/2019	1	206	206.4
Planned	1/16/2019	5	1,023	204.5
Planned	1/16/2019	1	24	24.1
Planned	1/16/2019	1	15	14.8
Planned	1/16/2019	1	26	26.2
Planned	1/16/2019	6	1,893	315.4
Planned	1/16/2019	9	795	88.4
Planned	1/16/2019	180	19,884	110.5
Planned	1/16/2019	4	646	161.5
Planned	1/16/2019	18	3,004	166.9
Planned	1/16/2019	6	379	63.2
Planned	1/16/2019	20	3,341	167.1
Planned	1/16/2019	5	1,401	280.1
Planned	1/16/2019	2	365	182.7
Planned	1/16/2019	9	259	28.7
Planned	1/16/2019	1	31	31.5
Planned	1/16/2019	1	26	26.2
Planned	1/16/2019	3	53	17.6
Planned	1/16/2019	1	20	19.6
Planned	1/16/2019	1	223	222.6
Planned	1/16/2019	6	505	84.2
Planned	1/16/2019	14	147	10.5
Planned	1/16/2019	7	1,246	178.0
Planned	1/16/2019	1	13	12.7

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	1/16/2019	4	125	31.3
Planned	1/16/2019	2	546	273.1
Planned	1/16/2019	4	247	61.8
Planned	1/16/2019	2	549	274.7
Planned	1/16/2019	2	33	16.4
Planned	1/16/2019	3	76	25.3
Planned	1/16/2019	1	144	144.4
Planned	1/16/2019	1	6	6.4
Planned	1/16/2019	3	69	23.0
Planned	1/16/2019	5	273	54.7
Customer Request	1/16/2019	1	57	57.0
Customer Request	1/16/2019	1	32	32.0
Planned	1/17/2019	1	125	125.3
Planned	1/17/2019	3	181	60.4
Planned	1/17/2019	2	246	122.8
Planned	1/17/2019	1	21	20.8
Planned	1/17/2019	2	250	124.8
Planned	1/17/2019	4	191	47.7
Planned	1/17/2019	1	74	73.6
Planned	1/17/2019	7	161	23.0
Planned	1/17/2019	1	83	82.9
Planned	1/17/2019	14	881	62.9
Planned	1/17/2019	1	58	57.9
Planned	1/17/2019	3	170	56.7
Planned	1/17/2019	2	36	18.0
Planned	1/17/2019	1	64	64.0
Planned	1/17/2019	7	476	68.0
Planned	1/17/2019	1	127	127.1
Planned	1/17/2019	2	101	50.7
Planned	1/17/2019	1	115	114.8
Planned	1/17/2019	7	673	96.1
Planned	1/17/2019	2	62	31.0
Planned	1/17/2019	2	99	49.4
Planned	1/17/2019	1	22	22.2
Planned	1/17/2019	1	16	16.2
Planned	1/17/2019	4	192	48.0
Planned	1/17/2019	6	33	5.5
Planned	1/17/2019	4	445	111.2
Planned	1/17/2019	4	234	58.4
Planned	1/17/2019	3	195	65.1
Planned	1/17/2019	2	108	53.9
Planned	1/17/2019	1	30	29.7
Planned	1/17/2019	5	239	47.7
Customer Request	1/17/2019	1	38	38.2
Customer Request	1/17/2019	1	59	59.0
Planned	1/18/2019	1	122	122.4
Planned	1/18/2019	5	89	17.8
Planned	1/18/2019	12	762	63.5

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	1/18/2019	2	224	112.0
Planned	1/18/2019	3	79	26.4
Planned	1/18/2019	2	36	18.1
Planned	1/18/2019	1	70	70.0
Planned	1/18/2019	2	135	67.4
Planned	1/18/2019	14	1,778	127.0
Planned	1/18/2019	1	37	37.2
Planned	1/18/2019	5	97	19.3
Planned	1/18/2019	4	156	39.0
Planned	1/18/2019	6	300	50.0
Planned	1/18/2019	4	284	70.9
Planned	1/18/2019	1	30	30.0
Planned	1/18/2019	1	48	48.0
Planned	1/18/2019	3	46	15.3
Planned	1/18/2019	8	772	96.5
Planned	1/18/2019	1	16	15.8
Planned	1/18/2019	4	93	23.3
Planned	1/18/2019	1	120	119.8
Planned	1/18/2019	1	24	23.7
Planned	1/18/2019	3	97	32.4
Planned	1/18/2019	1	24	24.0
Planned	1/18/2019	1	42	42.2
Planned	1/18/2019	1	31	30.5
Planned	1/18/2019	1	24	23.8
Customer Request	1/18/2019	3	88	29.2
Planned	1/19/2019	1	251	251.1
Planned	1/19/2019	9	361	40.1
Planned	1/20/2019	2	108	53.9
Planned	1/20/2019	4	1,281	320.3
Planned	1/20/2019	3	144	48.0
Planned	1/20/2019	13	912	70.1
Planned	1/20/2019	4	255	63.8
Planned	1/20/2019	2	45	22.4
Planned	1/20/2019	12	176	14.7
Planned	1/21/2019	1	52	52.0
Planned	1/21/2019	1	176	175.6
Planned	1/21/2019	1	101	101.1
Planned	1/21/2019	6	282	47.1
Planned	1/21/2019	1	121	121.4
Planned	1/21/2019	3	120	39.9
Planned	1/21/2019	4	58	14.6
Planned	1/21/2019	3	75	24.9
Customer Request	1/21/2019	1	61	61.0
Customer Request	1/21/2019	1	111	111.0
Customer Request	1/21/2019	1	76	76.0
Planned	1/22/2019	3	211	70.5
Planned	1/22/2019	1	70	69.6
Planned	1/22/2019	5	179	35.8

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	1/22/2019	5	616	123.1
Planned	1/22/2019	1	201	201.0
Planned	1/22/2019	1	50	50.2
Planned	1/22/2019	1	32	31.6
Planned	1/22/2019	1	69	69.4
Planned	1/22/2019	4	738	184.6
Planned	1/22/2019	1	27	27.5
Planned	1/22/2019	2	73	36.6
Planned	1/22/2019	19	876	46.1
Planned	1/22/2019	3	38	12.8
Planned	1/22/2019	2	93	46.6
Planned	1/22/2019	1	60	60.0
Planned	1/22/2019	1	59	58.5
Planned	1/22/2019	4	165	41.3
Planned	1/22/2019	11	666	60.6
Planned	1/22/2019	1	287	287.4
Planned	1/22/2019	6	109	18.2
Planned	1/22/2019	40	311	7.8
Planned	1/22/2019	1	286	286.3
Planned	1/22/2019	5	126	25.1
Planned	1/22/2019	3	601	200.4
Planned	1/22/2019	1	169	168.7
Planned	1/22/2019	1	111	110.7
Planned	1/22/2019	4	80	19.9
Planned	1/22/2019	43	4,559	106.0
Planned	1/22/2019	6	29	4.8
Planned	1/22/2019	1	61	61.4
Planned	1/22/2019	7	386	55.1
Planned	1/22/2019	15	1,006	67.1
Planned	1/22/2019	3	70	23.4
Planned	1/22/2019	10	157	15.7
Planned	1/22/2019	20	322	16.1
Planned	1/22/2019	5	310	62.0
Planned	1/22/2019	1	73	73.2
	1/22/2019	5		
Planned		1	229	45.8
Planned	1/22/2019		1 572	44.4
Planned	1/22/2019	40	1,573	39.3
Planned	1/22/2019	1	9	9.0
Planned	1/22/2019	1	86	86.1
Planned	1/22/2019	1	62	61.9
Customer Request	1/22/2019	0	0	76.8
Customer Request	1/22/2019	1	65	65.1
Customer Request	1/22/2019	1	58	58.0
Customer Request	1/22/2019	1	95	95.0
Customer Request	1/22/2019	1	116	116.0
Planned	1/23/2019	6	1,125	187.5
Planned	1/23/2019	1	523	522.6
Planned	1/23/2019	2	889	444.7

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	1/23/2019	2	602	300.8
Planned	1/23/2019	2	299	149.6
Planned	1/23/2019	5	2,235	447.0
Planned	1/23/2019	5	226	45.2
Planned	1/23/2019	23	1,273	55.4
Planned	1/23/2019	8	429	53.7
Planned	1/23/2019	7	176	25.1
Planned	1/23/2019	1	178	177.8
Planned	1/23/2019	1	284	284.4
Planned	1/23/2019	1	21	20.5
Planned	1/23/2019	17	351	20.7
Planned	1/23/2019	8	116	14.5
Planned	1/23/2019	6	189	31.6
Planned	1/23/2019	3	440	146.5
Planned	1/23/2019	2	187	93.3
Planned	1/23/2019	7	457	65.3
Planned	1/23/2019	1	18	18.4
Planned	1/23/2019	9	372	41.4
Planned	1/23/2019	3	65	21.6
Planned	1/23/2019	16	319	19.9
Planned	1/23/2019	1	68	67.8
Customer Request	1/23/2019	1	63	63.3
Planned	1/24/2019	6	381	63.5
Planned	1/24/2019	4	507	126.6
Planned	1/24/2019	1	189	189.1
Planned	1/24/2019	2	108	53.9
Planned	1/24/2019	1	125	124.7
Planned	1/24/2019	1	448	447.9
Planned	1/24/2019	4	1,778	444.5
Planned	1/24/2019	3	31	10.2
Planned	1/24/2019	15	4,433	295.5
Planned	1/24/2019	4	95	23.7
Planned	1/24/2019	2	774	387.2
	1/24/2019	2	89	44.3
Planned	1/24/2019	2	274	137.1
Planned		1	16	16.3
Planned	1/24/2019			
Planned	1/24/2019	1	87	86.9
Planned	1/24/2019	3	277	92.5
Planned	1/24/2019	2	345	172.3
Planned	1/24/2019	1	17	16.8
Planned	1/24/2019	2	77	38.5
Planned	1/24/2019	1	14	14.0
Planned	1/24/2019	1	102	102.3
Planned	1/24/2019	1	91	91.4
Planned	1/24/2019	1	307	306.6
Planned	1/24/2019	1	14	13.7
Planned	1/24/2019	1	70	69.6
Planned	1/24/2019	4	356	88.9

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	1/24/2019	9	420	46.6
Planned	1/24/2019	1	167	167.4
Customer Request	1/24/2019	1	121	120.8
Planned	1/25/2019	4	873	218.2
Planned	1/25/2019	2	324	162.0
Planned	1/25/2019	9	92	10.3
Planned	1/25/2019	2	23	11.7
Planned	1/25/2019	1	82	81.9
Planned	1/25/2019	1	255	255.4
Planned	1/25/2019	22	3,402	154.6
Planned	1/25/2019	1	118	117.7
Planned	1/25/2019	1	113	113.3
Planned	1/25/2019	4	113	28.3
Planned	1/25/2019	1	23	23.4
Planned	1/25/2019	3	175	58.2
Planned	1/25/2019	1	86	86.1
Planned	1/25/2019	1	20	20.3
Planned	1/25/2019	5	112	22.3
Planned	1/25/2019	2	79	39.3
Planned	1/25/2019	1	65	65.2
Planned	1/25/2019	3	98	32.7
Planned	1/25/2019	74	1,138	15.4
Planned	1/25/2019	1	3	2.9
Planned	1/25/2019	1	21	21.3
Planned	1/25/2019	1	20	19.5
Planned	1/25/2019	1	27	27.0
Planned	1/26/2019	2	89	44.6
Planned	1/27/2019	1	59	58.9
Planned	1/27/2019	1	33	33.2
Planned	1/27/2019	1	56	56.2
	1/27/2019	2	84	
Planned	1/27/2019	1	31	42.1 30.8
Planned		1		
Planned	1/28/2019		559	559.0
Planned	1/28/2019	1	154	153.6
Planned	1/28/2019	1	75	74.6
Planned	1/28/2019	2	197	98.6
Planned	1/28/2019	1	201	200.5
Planned	1/28/2019	1	37	36.6
Planned	1/28/2019	2	49	24.7
Planned	1/28/2019	4	59	14.7
Planned	1/28/2019	6	244	40.7
Planned	1/28/2019	3	294	98.0
Planned	1/28/2019	3	54	17.9
Planned	1/28/2019	1	97	96.5
Planned	1/28/2019	6	321	53.6
Planned	1/28/2019	1	32	31.9
Planned	1/28/2019	27	1,300	48.1
Planned	1/28/2019	12	1,020	85.0

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	1/28/2019	6	128	21.3
Planned	1/28/2019	4	328	82.0
Planned	1/28/2019	5	107	21.3
Planned	1/28/2019	1	32	32.2
Planned	1/28/2019	4	66	16.5
Planned	1/28/2019	3	105	35.1
Planned	1/28/2019	1	77	76.9
Planned	1/28/2019	6	227	37.8
Planned	1/28/2019	5	189	37.7
Planned	1/28/2019	1	127	127.3
Planned	1/28/2019	2	188	94.0
Planned	1/28/2019	1	94	94.0
Planned	1/28/2019	4	1,435	358.8
Planned	1/28/2019	2	201	100.7
Planned	1/28/2019	19	1,847	97.2
Planned	1/28/2019	6	590	98.4
Planned	1/28/2019	2	35	17.7
Planned	1/28/2019	1	17	17.1
Planned	1/28/2019	2	63	31.6
Planned	1/28/2019	7	364	52.0
Planned	1/28/2019	2	480	239.8
Planned	1/28/2019	6	819	136.5
Planned	1/28/2019	4	723	180.8
Planned	1/28/2019	1	27	26.8
Planned	1/28/2019	4	114	28.5
Planned	1/28/2019	1	36	36.3
Planned	1/28/2019	3	243	81.1
Customer Request	1/28/2019	1	155	155.0
Customer Request	1/28/2019	1	113	113.0
Customer Request	1/28/2019	1	43	43.0
Customer Request	1/28/2019	1	132	132.4
Customer Request	1/28/2019	1	97	96.9
Planned	1/29/2019	1	10	10.3
Planned	1/29/2019	1	28	28.4
Planned	1/29/2019	1	23	23.3
Planned	1/29/2019	1	94	94.4
Planned	1/29/2019	4	51	12.7
Planned	1/29/2019	4	92	23.0
Planned	1/29/2019	24	338	14.1
Planned	1/29/2019	138	5,145	37.3
Planned	1/29/2019	6	1,323	220.4
Planned	1/29/2019	15	2,908	193.9
Planned	1/29/2019	3	276	92.0
Planned	1/29/2019	5	581	116.1
Planned	1/29/2019	3	88	29.2
Planned	1/29/2019	5	348	69.6
Planned	1/29/2019	7	175	25.0
Planned	1/29/2019	6	757	126.1

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	1/29/2019	2	179	89.4
Planned	1/29/2019	1	121	120.8
Planned	1/29/2019	13	815	62.7
Planned	1/29/2019	1	51	50.7
Planned	1/29/2019	2	187	93.6
Planned	1/29/2019	2	61	30.6
Planned	1/29/2019	22	2,095	95.2
Planned	1/29/2019	6	123	20.6
Planned	1/29/2019	1	78	78.3
Planned	1/29/2019	2	146	73.2
Planned	1/29/2019	1	51	51.0
Planned	1/29/2019	5	162	32.5
Planned	1/29/2019	8	672	84.0
Planned	1/30/2019	1	94	94.1
Planned	1/30/2019	1	85	85.0
Planned	1/30/2019	1	37	36.6
Planned	1/30/2019	2	63	31.7
Planned	1/30/2019	1	13	13.0
Planned	1/30/2019	1	141	141.5
Planned	1/30/2019	1	7	7.3
Planned	1/30/2019	1	147	146.9
Planned	1/30/2019	3	414	138.0
Planned	1/30/2019	1	118	118.2
Planned	1/30/2019	17	251	14.8
Planned	1/30/2019	3	552	184.1
Planned	1/30/2019	1	66	66.3
Planned	1/30/2019	1	74	74.0
Planned	1/30/2019	1	63	62.6
Planned	1/30/2019	3	87	28.9
Planned	1/30/2019	152	3,732	24.6
Planned	1/30/2019	7	387	55.3
Planned	1/30/2019	3	265	88.4
Planned	1/30/2019	48	5,234	109.0
Planned	1/30/2019	1	63	63.3
Planned	1/30/2019	2	121	60.5
Planned	1/30/2019	2	121	60.4
Planned	1/30/2019	2	158	78.9
Planned	1/30/2019	3	79	26.4
Planned	1/30/2019	1	97	96.7
Planned	1/30/2019	1	22	21.8
Customer Request	1/30/2019	4	504	125.9
Planned	1/31/2019	108	18,036	167.0
Planned	1/31/2019	8	1,127	140.8
Planned	1/31/2019	1	14	14.3
Planned	1/31/2019	1	85	85.3
Planned	1/31/2019	1	176	176.0
Planned	1/31/2019	6	933	155.5
Planned	1/31/2019	1	102	102.4

Q13 – Distribution Excluded Outage Events				
Date	CI	CMI	L-Bar	
1/31/2019	4	64	16.1	
1/31/2019	1	21	21.3	
1/31/2019	1	33	32.9	
1/31/2019	3	60	20.1	
1/31/2019	2	32	16.2	
1/31/2019	2	68	34.1	
1/31/2019	1	84	83.7	
1/31/2019	1	102	102.4	
1/31/2019	4	539	134.8	
1/31/2019	2	96	47.8	
1/31/2019	3	368	122.7	
1/31/2019	8	273	34.1	
	5	115	23.0	
1/31/2019	3	407	135.7	
1/31/2019	1	56	56.1	
1/31/2019	1	35	35.3	
	1	122	122.4	
	6		122.7	
			30.4	
			23.0	
		-	118.3	
			120.0	
		+	87.5	
			98.4	
			118.7	
			72.7	
			76.3	
			131.5	
			153.3	
			182.9	
			61.1	
			29.8	
		_	40.2	
		11	11.0	
		+	24.4	
	1	+	86.7	
		+	37.6	
			17.9	
		+	112.5	
		+	5.1	
			30.4	
			18.6	
			62.1	
			79.3	
		<u> </u>	30.3	
		T T	21.9	
		10	10.0	
2/1/2019	1	1111	1 11111	
	Date 1/31/2019 2/1/2019	Date CI 1/31/2019 4 1/31/2019 1 1/31/2019 1 1/31/2019 2 1/31/2019 2 1/31/2019 1 1/31/2019 1 1/31/2019 1 1/31/2019 3 1/31/2019 3 1/31/2019 3 1/31/2019 3 1/31/2019 1 1/31/2019 1 1/31/2019 1 1/31/2019 1 1/31/2019 1 1/31/2019 1 1/31/2019 1 1/31/2019 1 1/31/2019 1 1/31/2019 1 1/31/2019 1 2/1/2019 1 2/1/2019 1 2/1/2019 1 2/1/2019 1 2/1/2019 1 2/1/2019 1 2/1/2019 1 2/1/2019	Date CI CMI 1/31/2019 4 64 1/31/2019 1 21 1/31/2019 1 33 1/31/2019 2 32 1/31/2019 2 68 1/31/2019 1 102 1/31/2019 1 102 1/31/2019 4 539 1/31/2019 3 368 1/31/2019 3 368 1/31/2019 3 368 1/31/2019 3 407 1/31/2019 3 407 1/31/2019 1 56 1/31/2019 1 35 1/31/2019 1 35 1/31/2019 1 122 1/31/2019 1 122 1/31/2019 1 120 1/31/2019 1 120 1/31/2019 1 120 1/31/2019 1 120 1/31/2019 1 73	

Q13 – Distribution Excluded Outage Events					
Causation	Date	CI	CMI	L-Bar	
Planned	2/1/2019	2	73	36.3	
Planned	2/1/2019	1	128	128.0	
Planned	2/1/2019	1	20	19.8	
Planned	2/1/2019	6	219	36.5	
Planned	2/1/2019	2	72	36.0	
Planned	2/1/2019	7	190	27.1	
Planned	2/1/2019	1	32	32.2	
Planned	2/1/2019	6	384	63.9	
Planned	2/1/2019	1	24	24.0	
Planned	2/2/2019	3	232	77.3	
Planned	2/2/2019	2	143	71.7	
Planned	2/2/2019	3	174	58.0	
Planned	2/2/2019	7	335	47.8	
Planned	2/2/2019	4	71	17.7	
Planned	2/2/2019	4	116	28.9	
Planned	2/3/2019	4	249	62.3	
Customer Request	2/3/2019	1	32	32.0	
Customer Request	2/3/2019	1	37	37.0	
Customer Request	2/3/2019	1	56	56.0	
Customer Request	2/3/2019	1	30	30.0	
Customer Request	2/3/2019	1	39	39.0	
Planned	2/4/2019	1	66	65.9	
Planned	2/4/2019	24	242	10.1	
Planned	2/4/2019	3	374	124.8	
Planned	2/4/2019	16	2,084	130.3	
Planned	2/4/2019	1	128	128.1	
Planned	2/4/2019	10	276	27.6	
Planned	2/4/2019	1	74	74.4	
Planned	2/4/2019	7	971	138.8	
Planned	2/4/2019	1	66	66.4	
Planned	2/4/2019	2	136	67.8	
Planned	2/4/2019	11	1,469	133.6	
Planned	2/4/2019	1	152	151.8	
Planned	2/4/2019	8	1,020	127.5	
Planned	2/4/2019	8	954	119.3	
Planned	2/4/2019	2	18	9.0	
Planned	2/4/2019	1	194	194.5	
Planned	2/4/2019	6	876	146.1	
Planned	2/4/2019	2	40	20.0	
Planned	2/4/2019	7	45	6.4	
Planned	2/4/2019	2	109	54.3	
Planned	2/4/2019	3	65	21.7	
Planned	2/4/2019	1	85	85.4	
Planned	2/4/2019	11	562	51.1	
Planned	2/4/2019	6	306	51.0	
Planned	2/4/2019	1	31	31.0	
Planned	2/4/2019	24	531	22.1	
Planned	2/4/2019	2	275	137.6	

Q13 – Di	Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar	
Planned	2/4/2019	1	31	30.9	
Planned	2/4/2019	3	95	31.6	
Planned	2/4/2019	2	154	76.9	
Planned	2/4/2019	17	3,590	211.2	
Planned	2/4/2019	2	409	204.5	
Planned	2/4/2019	1	225	225.2	
Planned	2/4/2019	1	66	66.2	
Planned	2/4/2019	1	101	100.9	
Planned	2/4/2019	1	83	83.4	
Planned	2/4/2019	1	71	70.7	
Planned	2/4/2019	1	22	22.1	
Planned	2/4/2019	4	563	140.8	
Planned	2/4/2019	1	139	138.8	
Planned	2/5/2019	4	705	176.3	
Planned	2/5/2019	2	56	27.9	
Planned	2/5/2019	7	785	112.2	
Planned	2/5/2019	4	204	51.0	
Planned	2/5/2019	16	4,262	266.4	
Planned	2/5/2019	3	527	175.6	
Planned	2/5/2019	2	68	34.1	
Planned	2/5/2019	11	857	77.9	
Planned	2/5/2019	1	60	59.9	
Planned	2/5/2019	2	876	438.0	
Planned	2/5/2019	1	124	124.0	
Planned	2/5/2019	17	334	19.7	
Planned	2/5/2019	1	8	7.6	
Planned	2/5/2019	1	284	284.3	
Planned	2/5/2019	5	485	96.9	
Planned	2/5/2019	2	87	43.5	
Planned	2/5/2019	4	544	136.0	
Planned	2/5/2019	5	1,631	326.3	
Planned	2/5/2019	5	665	132.9	
Planned	2/5/2019	1	62	62.3	
Planned	2/5/2019	1	62	62.4	
Planned	2/5/2019	1	57	56.8	
Planned	2/5/2019	1	114	113.6	
Planned	2/5/2019	8	188	23.5	
Planned	2/5/2019	22	2,960	134.5	
Planned	2/5/2019	8	1,227	153.4	
Planned	2/5/2019	2	128	63.8	
Planned	2/5/2019	3	513	171.0	
Planned	2/5/2019	14	100	7.2	
Planned	2/5/2019	3	559	186.5	
Planned	2/5/2019	2	226	113.1	
Planned	2/5/2019	1	35	35.4	
Customer Request	2/5/2019	0	0	18.0	
Planned	2/6/2019	1	162	162.0	
Planned	2/6/2019	1	37	37.1	

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	2/6/2019	28	1,786	63.8
Planned	2/6/2019	38	947	24.9
Planned	2/6/2019	3	125	41.8
Planned	2/6/2019	1	25	25.2
Planned	2/6/2019	1	193	193.1
Planned	2/6/2019	1	140	140.2
Planned	2/6/2019	4	1,246	311.4
Planned	2/6/2019	4	1,235	308.7
Planned	2/6/2019	2	617	308.6
Planned	2/6/2019	1	308	308.3
Planned	2/6/2019	2	16	8.1
Planned	2/6/2019	5	1,054	210.9
Planned	2/6/2019	10	1,656	165.6
Planned	2/6/2019	1	105	105.2
Planned	2/6/2019	19	154	8.1
Planned	2/6/2019	2	214	107.2
Planned	2/6/2019	1	12	12.2
Planned	2/6/2019	1	113	113.1
Planned	2/6/2019	1	12	12.2
Planned	2/6/2019	9	1,203	133.7
Planned	2/6/2019	34	2,424	71.3
Planned	2/6/2019	1	30	30.2
Planned	2/6/2019	6	464	77.4
Planned	2/6/2019	25	358	14.3
Planned		10	138	
Planned	2/6/2019	3	75	13.8 25.0
	2/6/2019			
Planned	2/6/2019	1	27	26.9
Planned	2/6/2019	2	44	22.1
Planned	2/6/2019	1	138	137.9
Planned	2/6/2019	4	106	26.4
Planned	2/6/2019	3	49	16.2
Planned	2/6/2019	4	166	41.4
Planned	2/6/2019	2	79	39.6
Planned	2/6/2019	6	225	37.5
Planned	2/6/2019	1	62	61.9
Planned	2/6/2019	4	288	72.0
Planned	2/6/2019	4	303	75.7
Planned	2/6/2019	19	345	18.1
Planned	2/6/2019	2	265	132.6
Planned	2/6/2019	2	244	121.9
Planned	2/6/2019	3	98	32.8
Planned	2/7/2019	1	15	14.8
Planned	2/7/2019	3	599	199.7
Planned	2/7/2019	1	345	344.7
Planned	2/7/2019	3	55	18.5
Planned	2/7/2019	2	75	37.4
Planned	2/7/2019	1	220	220.2
Planned	2/7/2019	1	55	55.4

Q13 – D	Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar	
Planned	2/7/2019	5	87	17.3	
Planned	2/7/2019	4	450	112.4	
Planned	2/7/2019	10	366	36.6	
Planned	2/7/2019	1	132	132.3	
Planned	2/7/2019	4	191	47.9	
Planned	2/7/2019	1	560	559.9	
Planned	2/7/2019	1	105	105.4	
Planned	2/7/2019	6	253	42.1	
Planned	2/7/2019	8	337	42.2	
Planned	2/7/2019	6	254	42.3	
Planned	2/7/2019	6	660	110.0	
Planned	2/7/2019	1	31	31.2	
Planned	2/7/2019	4	217	54.2	
Planned	2/7/2019	4	236	58.9	
Planned	2/7/2019	6	374	62.3	
Planned	2/7/2019	1	69	69.1	
Planned	2/7/2019	2	37	18.3	
Planned	2/7/2019	1	93	93.4	
Planned	2/7/2019	4	94	23.6	
Planned	2/7/2019	1	25	25.4	
Planned	2/7/2019	1	107	106.6	
Planned	2/8/2019	9	1,723	191.5	
Planned	2/8/2019	3	93	31.1	
Planned	2/8/2019	4	218	54.5	
Planned	2/8/2019	3	374	124.5	
Planned	2/8/2019	1	18	17.9	
Planned	2/8/2019	4	163	40.8	
Planned	2/8/2019	1	26	26.4	
Planned	2/8/2019	1	43	43.5	
Planned	2/8/2019	3	100	33.2	
Planned	2/8/2019	1	64	64.2	
Planned	2/8/2019	11	241	21.9	
Planned	2/8/2019	3	329	109.7	
Planned	2/8/2019	1	44	44.0	
Planned	2/8/2019	5	518	103.6	
Planned	2/8/2019	1	35	34.7	
Planned	2/8/2019	1	6	6.4	
Planned	2/8/2019	1	49	49.0	
Planned	2/8/2019	1	11	11.1	
Planned	2/8/2019	1	24	23.5	
Planned	2/8/2019	7	914	130.6	
Planned	2/8/2019	4	296	74.1	
Planned	2/8/2019	2	89	44.7	
Planned	2/8/2019	5	87	17.3	
Planned	2/8/2019	7	168	24.0	
Planned	2/9/2019	6	50	8.3	
Planned	2/9/2019	3	61	20.4	
Planned	2/9/2019	6	115	19.1	

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	2/9/2019	1	10	10.5
Planned	2/9/2019	1	512	512.0
Customer Request	2/9/2019	1	121	121.1
Customer Request	2/9/2019	1	119	118.7
Planned	2/10/2019	1	53	52.9
Planned	2/10/2019	1	30	29.5
Planned	2/10/2019	4	180	45.0
Planned	2/10/2019	1	38	38.2
Planned	2/10/2019	2	47	23.5
Planned	2/10/2019	1	38	38.4
Planned	2/10/2019	1	12	12.3
Planned	2/10/2019	1	29	29.2
Planned	2/10/2019	1	30	29.5
Planned	2/10/2019	1	29	29.4
Planned	2/10/2019	2	96	48.0
Planned	2/10/2019	29	16,686	575.4
Planned	2/11/2019	1	125	125.3
Planned	2/11/2019	1	309	308.8
Planned	2/11/2019	1	20	19.5
Planned	2/11/2019	57	17,449	306.1
Planned	2/11/2019	1	305	304.5
Planned	2/11/2019	11	242	22.0
Planned	2/11/2019	1	43	43.4
Planned	2/11/2019	1	27	26.6
Planned	2/11/2019	1	32	31.6
Planned	2/11/2019	5	203	40.6
Planned	2/11/2019	1	31	30.8
Planned	2/11/2019	7	243	34.7
Planned	2/11/2019	2	87	43.4
Planned	2/11/2019	3	672	224.1
Planned	2/11/2019	2	329	164.5
Planned	2/11/2019	1	12	11.5
Planned	2/11/2019	1	120	120.4
Planned	2/11/2019	2	228	113.9
Planned	2/11/2019	1	97	96.8
Planned	2/11/2019	8	1,651	206.4
Planned	2/11/2019	4	266	66.4
Planned	2/11/2019	3	190	63.4
Planned	2/11/2019	1	12	11.7
Planned	2/11/2019	2	193	96.4
Planned	2/11/2019	8	237	29.6
Planned	2/11/2019	1	30	29.8
Planned	2/11/2019	6	514	85.7
Planned	2/11/2019	2	226	113.1
Planned	2/11/2019	1	185	184.8
Planned	2/11/2019	4	123	30.8
Planned	2/11/2019	1	79	79.0
Customer Request	2/11/2019	1	55	55.0

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Customer Request	2/11/2019	6	2,230	371.6
Planned	2/12/2019	6	159	26.5
Planned	2/12/2019	1	27	27.1
Planned	2/12/2019	4	46	11.6
Planned	2/12/2019	1	28	28.2
Planned	2/12/2019	1	289	289.0
Planned	2/12/2019	3	240	79.9
Planned	2/12/2019	10	59	5.9
Planned	2/12/2019	1	280	280.2
Planned	2/12/2019	5	95	19.0
Planned	2/12/2019	4	440	110.1
Planned	2/12/2019	2	159	79.7
Planned	2/12/2019	10	997	99.7
Planned	2/12/2019	10	772	77.2
Planned	2/12/2019	4	317	79.1
Planned	2/12/2019	1	25	25.4
Planned	2/12/2019	1	137	137.0
Planned	2/12/2019	1	76	76.0
Planned	2/12/2019	2	92	45.9
Planned	2/12/2019	1	170	169.9
Planned	2/12/2019	1	15	14.7
Planned	2/12/2019	1	37	37.0
Planned	2/12/2019	1	51	51.0
Planned	2/12/2019	3	402	134.0
Planned	2/12/2019	1	33	32.7
Planned	2/12/2019	1	14	14.5
	2/12/2019	35	838	23.9
Planned	İ			ł
Planned	2/12/2019	1	10	9.6
Planned	2/12/2019	1	10	10.1
Planned	2/12/2019	3	146	48.6
Planned	2/12/2019	4	101	25.2
Planned	2/12/2019	4	96	24.0
Planned	2/12/2019	1	35	35.1
Planned	2/12/2019	4	689	172.3
Planned	2/12/2019	1	189	188.8
Planned	2/13/2019	1	31	31.5
Planned	2/13/2019	1	17	17.0
Planned	2/13/2019	35	4,537	129.6
Planned	2/13/2019	17	392	23.1
Planned	2/13/2019	1	22	21.9
Planned	2/13/2019	1	614	613.8
Planned	2/13/2019	2	62	31.0
Planned	2/13/2019	1	270	269.6
Planned	2/13/2019	3	470	156.6
Planned	2/13/2019	1	33	33.4
Planned	2/13/2019	1	11	11.0
Planned	2/13/2019	7	241	34.4
Planned	2/13/2019	2	242	121.2

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	2/13/2019	2	23	11.6
Planned	2/13/2019	1	6	6.2
Planned	2/13/2019	3	356	118.6
Planned	2/13/2019	10	1,154	115.4
Planned	2/13/2019	3	24	8.1
Planned	2/13/2019	90	8,571	95.2
Planned	2/13/2019	1	32	31.9
Planned	2/13/2019	75	15,505	206.7
Planned	2/13/2019	3	69	23.1
Planned	2/13/2019	1	97	96.9
Planned	2/13/2019	15	194	12.9
Planned	2/13/2019	1	72	72.3
Planned	2/13/2019	2	55	27.6
Planned	2/13/2019	3	88	29.2
Planned	2/13/2019	2	336	168.0
Planned	2/13/2019	3	616	205.2
Planned	2/13/2019	5	364	72.8
Planned	2/13/2019	2	88	43.9
Planned	2/13/2019	3	47	15.5
Planned	2/13/2019	1	159	159.3
Planned	2/13/2019	1	32	32.4
Planned	2/13/2019	2	174	86.8
Planned	2/13/2019	1	125	124.8
Planned	2/13/2019	8	275	34.3
Planned	2/13/2019	6	641	106.8
Planned	2/13/2019	9	539	59.8
Planned	2/13/2019	1	137	137.1
Planned	2/13/2019	1	92	92.1
Planned	2/13/2019	13	143	11.0
Planned	2/13/2019	56	575	10.3
Planned	2/13/2019	14	141	10.1
Planned	2/13/2019	3	28	9.4
Planned	2/13/2019	34	315	9.3
Planned	2/13/2019	2	230	114.8
Planned	2/13/2019	1	98	97.8
Planned	2/13/2019	8	1,977	247.1
Planned	2/13/2019	11	746	67.8
Planned	2/13/2019	38	5,618	147.9
Planned	2/13/2019	4	582	145.6
Planned	2/13/2019	2	292	145.8
Planned	2/13/2019	4	294	73.5
Planned	2/13/2019	2	371	185.7
Planned	2/13/2019	3	143	47.5
Planned	2/13/2019	3	197	65.5
Planned	2/13/2019	1	39	39.5
Planned	2/13/2019	3	208	69.2
Planned	2/13/2019	6	345	57.5
Planned	2/13/2019	4	87	21.8

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Customer Request	2/13/2019	3	754	251.5
Planned	2/14/2019	8	2,487	310.9
Planned	2/14/2019	2	98	49.1
Planned	2/14/2019	5	973	194.6
Planned	2/14/2019	1	132	132.4
Planned	2/14/2019	7	1,157	165.3
Planned	2/14/2019	2	464	232.2
Planned	2/14/2019	4	74	18.6
Planned	2/14/2019	13	2,123	163.3
Planned	2/14/2019	22	352	16.0
Planned	2/14/2019	34	504	14.8
Planned	2/14/2019	5	786	157.3
Planned	2/14/2019	2	74	37.2
Planned	2/14/2019	10	569	56.9
Planned	2/14/2019	1	76	75.6
Planned	2/14/2019	11	1,136	103.3
Planned	2/14/2019	2	280	139.9
Planned	2/14/2019	1	97	97.2
Planned	2/14/2019	9	783	87.0
Planned	2/14/2019	6	204	34.0
Planned	2/14/2019	4	710	177.5
Planned	2/14/2019	1	59	58.6
Planned	2/14/2019	1	66	66.4
Planned	2/14/2019	1	45	44.8
Planned	2/14/2019	1	138	138.3
			1	1.0
Planned	2/14/2019	2	8	
Planned	2/14/2019	1		8.0
Planned	2/14/2019	2	132	66.2
Planned	2/14/2019	1	56	55.6
Planned	2/14/2019	1	23	23.5
Planned	2/14/2019	2	130	65.0
Planned	2/14/2019	17	292	17.2
Planned	2/14/2019	25	432	17.3
Planned	2/14/2019	1	9	8.8
Planned	2/14/2019	4	46	11.6
Planned	2/14/2019	3	16	5.5
Planned	2/14/2019	1	17	17.4
Planned	2/14/2019	2	50	25.2
Planned	2/14/2019	2	107	53.3
Planned	2/14/2019	4	82	20.4
Planned	2/14/2019	4	323	80.8
Planned	2/14/2019	6	230	38.3
Planned	2/14/2019	4	235	58.8
Planned	2/14/2019	1	21	20.9
Planned	2/14/2019	1	17	16.7
Planned	2/14/2019	1	12	12.3
Planned	2/14/2019	266	12,728	47.9
Planned	2/14/2019	1	76	75.7

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	2/14/2019	3	189	62.9
Customer Request	2/14/2019	1	31	31.0
Planned	2/15/2019	4	750	187.5
Planned	2/15/2019	5	155	31.1
Planned	2/15/2019	1	11	10.6
Planned	2/15/2019	1	26	26.3
Planned	2/15/2019	4	689	172.4
Planned	2/15/2019	1	44	44.2
Planned	2/15/2019	1	60	59.9
Planned	2/15/2019	4	280	70.0
Planned	2/15/2019	3	210	69.9
Planned	2/15/2019	1	26	26.4
Planned	2/15/2019	6	458	76.3
Planned	2/15/2019	1	129	129.2
Planned	2/15/2019	4	592	148.0
Planned	2/15/2019	2	63	31.6
Planned	2/15/2019	2	75	37.4
Planned	2/15/2019	3	349	116.5
Planned	2/15/2019	1	133	132.8
Planned	2/15/2019	3	162	54.0
Planned	2/15/2019	3	138	46.0
Planned	2/15/2019	6	362	60.3
Planned	2/15/2019	4	153	38.2
Planned	2/15/2019	1	27	27.2
Planned	2/15/2019	1	103	102.6
Planned	2/15/2019	1	99	99.0
Planned	2/15/2019	2	34	17.1
Planned		3	101	33.6
Planned	2/15/2019 2/15/2019	2	37	18.4
Planned	2/15/2019	1	-	
Planned			13 33	13.0 16.5
Planned	2/15/2019 2/15/2019	2	106	53.1
Planned		2	44	21.9
	2/15/2019			
Planned	2/15/2019	5	242	48.4
Planned	2/15/2019	3	148	49.4
Planned	2/15/2019	2	90	45.1
Planned	2/15/2019	5	414	82.8
Planned	2/16/2019	1	185	185.0
Planned	2/16/2019	1	1,470	1470.1
Planned	2/16/2019	1	1,470	1470.1
Planned	2/16/2019	1	326	325.6
Planned	2/16/2019	2	48	24.0
Planned	2/16/2019	2	312	156.0
Planned	2/16/2019	6	38	6.3
Planned	2/16/2019	3	506	168.6
Planned	2/16/2019	1	324	324.3
Planned	2/16/2019	1	37	36.5
Planned	2/16/2019	1	24	23.6

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	2/16/2019	3	58	19.2
Planned	2/16/2019	3	186	61.9
Planned	2/16/2019	2	37	18.5
Customer Request	2/16/2019	1	94	94.0
Planned	2/17/2019	7	578	82.6
Planned	2/17/2019	1	508	507.8
Planned	2/17/2019	6	635	105.8
Planned	2/17/2019	5	246	49.3
Planned	2/18/2019	6	532	88.6
Planned	2/18/2019	45	5,568	123.7
Planned	2/18/2019	1	143	142.8
Planned	2/18/2019	8	192	24.0
Planned	2/18/2019	2	260	130.2
Planned	2/18/2019	5	361	72.3
Planned	2/18/2019	1	163	163.2
Planned	2/18/2019	3	321	107.1
Planned	2/18/2019	4	1,008	251.9
Planned	2/18/2019	3	79	26.4
Planned	2/18/2019	4	120	29.9
Planned	2/18/2019	3	394	131.3
Planned	2/18/2019	1	123	122.7
Planned	2/18/2019	1	63	62.8
Planned	2/18/2019	1	71	70.8
Planned	2/18/2019	1	104	104.1
Planned	2/18/2019	1	17	17.0
Planned	2/18/2019	1	95	94.6
Planned	2/18/2019	1	94	94.4
Planned	2/18/2019	4	264	66.1
Planned	2/18/2019	1	30	29.7
Planned	2/18/2019	2	35	17.4
Planned	2/18/2019	3	134	44.7
Planned	2/18/2019	1	89	88.7
Planned	2/18/2019	22	517	23.5
Planned	2/18/2019	2	48	23.8
Planned	2/18/2019	5	414	82.7
Planned	2/18/2019	1	38	38.3
Planned	2/18/2019	11	596	54.2
Planned	2/18/2019	1	57	57.4
Planned	2/18/2019	3	48	16.1
Planned	2/18/2019	6	277	46.1
Planned	2/18/2019	2	289	144.3
Planned	2/18/2019	3	232	77.5
Planned	2/18/2019	29	797	27.5
		29	196	
Planned	2/18/2019		<u> </u>	98.2
Planned	2/18/2019	71	1,299	18.3
Planned	2/18/2019		115	115.0
Planned	2/18/2019	1	98	98.1
Planned	2/18/2019	1	38	38.1

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	2/18/2019	1	57	56.9
Customer Request	2/18/2019	1	92	92.0
Customer Request	2/18/2019	1	81	81.0
Customer Request	2/18/2019	1	114	113.7
Customer Request	2/18/2019	6	583	97.1
Customer Request	2/18/2019	15	981	65.4
Planned	2/19/2019	2	97	48.5
Planned	2/19/2019	4	168	41.9
Planned	2/19/2019	2	217	108.5
Planned	2/19/2019	13	428	32.9
Planned	2/19/2019	6	318	53.0
Planned	2/19/2019	1	243	242.9
Planned	2/19/2019	8	2,141	267.6
Planned	2/19/2019	23	2,282	99.2
Planned	2/19/2019	1	41	41.5
Planned	2/19/2019	1	140	139.9
Planned	2/19/2019	4	1,306	326.5
Planned	2/19/2019	1	195	195.0
Planned	2/19/2019	25	1,116	44.7
Planned	2/19/2019	1	42	41.9
Planned	2/19/2019	14	2,984	213.2
Planned	2/19/2019	2	82	40.8
Planned	2/19/2019	1	71	70.6
Planned	2/19/2019	2	103	51.6
Planned	2/19/2019	1	80	80.5
Planned	2/19/2019	1	42	42.0
Planned	2/19/2019	24	2,232	93.0
Planned	2/19/2019	3	301	100.4
Planned	2/19/2019	1	22	21.9
Planned	2/19/2019	8	275	34.4
Planned	2/19/2019	4	234	58.5
Planned	2/19/2019	3	176	58.6
Planned	2/19/2019	3	53	17.5
	2/19/2019	2	19	9.6
Planned	2/19/2019	8	762	95.3
Planned	2/19/2019	4	81	20.3
Planned			+	
Planned	2/19/2019	10	277	27.7
Planned	2/19/2019	1	21	20.7
Planned	2/19/2019	22	863	39.2
Planned	2/19/2019	1	8	7.6
Planned	2/19/2019	18	565	31.4
Planned	2/19/2019	1	45	44.6
Planned	2/19/2019	1	38	37.9
Planned	2/19/2019	1	225	225.3
Planned	2/19/2019	1	28	28.0
Planned	2/19/2019	3	78	25.9
Planned	2/19/2019	160	2,568	16.1
Planned	2/19/2019	32	547	17.1

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	2/19/2019	1	98	98.4
Planned	2/19/2019	1	71	70.9
Planned	2/19/2019	2	92	45.9
Planned	2/19/2019	2	171	85.7
Planned	2/19/2019	1	27	27.3
Customer Request	2/19/2019	1	96	95.8
Planned	2/20/2019	210	5,222	24.9
Planned	2/20/2019	1	102	101.9
Planned	2/20/2019	1	56	55.6
Planned	2/20/2019	1	65	65.0
Planned	2/20/2019	6	1,368	228.0
Planned	2/20/2019	1	63	63.2
Planned	2/20/2019	2	141	70.4
Planned	2/20/2019	1	84	83.6
Planned	2/20/2019	2	60	29.8
Planned	2/20/2019	45	2,635	58.6
Planned	2/20/2019	16	229	14.3
Planned	2/20/2019	1	51	51.1
Planned	2/20/2019	4	574	143.6
Planned	2/20/2019	3	130	43.3
Planned	2/20/2019	17	3,287	193.4
Planned	2/20/2019	2	576	287.9
Planned	2/20/2019	1	95	95.0
Planned	2/20/2019	5	496	99.2
Planned	2/20/2019	2	269	134.3
Planned	2/20/2019	1	102	102.1
Customer Request	2/20/2019	1	50	50.0
Planned	2/20/2019	3	296	98.8
Planned	2/21/2019	7	389	55.6
Planned	2/21/2019	3	195	64.8
Planned	2/21/2019	1	121	121.4
Planned	2/21/2019	1	143	142.8
Planned	2/21/2019	2	24	12.0
Planned	2/21/2019	1	33	33.0
Planned	2/21/2019	2	17	8.7
		1	108	
Planned	2/21/2019	1		108.2
Planned	2/21/2019		102	101.5
Planned	2/21/2019	4	326	81.5
Planned	2/21/2019	1	47	47.3
Planned	2/21/2019	1	122	122.5
Planned	2/21/2019	7	623	89.0
Planned	2/21/2019	1	105	104.9
Planned	2/21/2019	9	225	25.0
Planned	2/21/2019	1	143	142.7
Planned	2/21/2019	13	707	54.4
Planned	2/21/2019	2	56	27.8
Planned	2/21/2019	1	16	15.8
Planned	2/21/2019	2	106	53.0

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	2/21/2019	4	18	4.4
Planned	2/21/2019	1	60	60.2
Planned	2/21/2019	1	153	153.5
Planned	2/21/2019	4	110	27.4
Planned	2/21/2019	5	34	6.9
Planned	2/21/2019	1	7	7.1
Planned	2/21/2019	6	717	119.5
Planned	2/21/2019	3	255	84.9
Planned	2/21/2019	2	38	19.0
Planned	2/21/2019	4	101	25.3
Planned	2/21/2019	7	1,239	177.1
Planned	2/21/2019	6	620	103.3
Customer Request	2/21/2019	1	73	73.0
Planned	2/22/2019	2	209	104.7
Planned	2/22/2019	1	172	172.4
Planned	2/22/2019	2	92	45.9
Planned	2/22/2019	7	753	107.6
Planned	2/22/2019	4	109	27.3
Planned	2/22/2019	16	1,496	93.5
Planned	2/22/2019	2	99	49.7
Planned	2/22/2019	4	412	103.0
Planned	2/22/2019	2	123	61.3
Planned	2/22/2019	17	834	49.0
Planned	2/22/2019	13	808	62.2
Planned	2/22/2019	1	12	12.1
Planned	2/22/2019	24	1,976	82.3
Planned	2/22/2019	2	8	4.0
Planned	2/22/2019	2	258	129.1
Planned	2/22/2019	10	311	31.1
Planned	2/22/2019	5	95	18.9
Planned	2/22/2019	4	382	95.6
Planned	2/22/2019	1	13	12.9
Planned	2/22/2019	6	42	7.0
Planned	2/22/2019	2	66	32.8
Planned	2/22/2019	1	128	128.3
Planned	2/22/2019	3	42	14.0
Planned	2/22/2019	3	22	7.4
Planned	2/22/2019	3	269	89.7
Planned	2/22/2019	6	210	35.0
Customer Request	2/22/2019	16	128	8.0
Customer Request	2/22/2019	4	185	46.2
Planned	2/23/2019	3	73	24.3
Planned	2/23/2019	1	40	39.7
Planned	2/23/2019	1	66	65.9
Planned	2/23/2019	22	7,637	347.1
Planned	2/23/2019	6	161	26.8
Planned	2/23/2019	1	40	39.9
Planned	2/23/2019	1	93	92.6

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	2/23/2019	3	176	58.8
Planned	2/23/2019	2	194	97.2
Customer Request	2/23/2019	1	130	129.6
Planned	2/24/2019	3	88	29.4
Planned	2/24/2019	1	11	11.0
Planned	2/24/2019	2	127	63.3
Customer Request	2/24/2019	1	17	17.4
Planned	2/25/2019	1	115	114.8
Planned	2/25/2019	127	17,022	134.0
Planned	2/25/2019	1	123	122.6
Planned	2/25/2019	1	110	109.8
Planned	2/25/2019	2	151	75.5
Planned	2/25/2019	1	26	25.9
Planned	2/25/2019	1	10	9.8
Planned	2/25/2019	9	1,923	213.7
Planned	2/25/2019	1	56	56.3
Planned	2/25/2019	3	771	256.9
Planned	2/25/2019	1	18	18.2
Planned	2/25/2019	4	227	56.8
Planned	2/25/2019	6	1,481	246.9
Planned	2/25/2019	3	790	263.3
Planned	2/25/2019	1	24	24.0
Planned	2/25/2019	1	259	258.5
Planned	2/25/2019	7	168	238.3
Planned	2/25/2019	1	9	9.0
Planned	2/25/2019	4	153	38.2
	2/25/2019	5	923	184.6
Planned		1	195	
Planned	2/25/2019	2	445	195.1
Planned	2/25/2019			222.6
Planned	2/25/2019	3	49	16.2
Planned	2/25/2019	1	22	21.9
Planned	2/25/2019	1	68	67.5
Planned	2/25/2019	7	200	28.5
Planned	2/25/2019	22	961	43.7
Planned	2/25/2019	2	475	237.7
Planned	2/25/2019	3	417	138.8
Planned	2/25/2019	2	294	147.0
Planned	2/25/2019	1 -	16	16.1
Planned	2/25/2019	5	228	45.5
Customer Request	2/25/2019	34	20,115	591.6
Customer Request	2/25/2019	1	133	133.0
Customer Request	2/25/2019	1	180	180.0
Customer Request	2/25/2019	1	69	69.0
Customer Request	2/25/2019	1	66	66.0
Planned	2/26/2019	3	308	102.5
Planned	2/26/2019	1	23	23.1
Planned	2/26/2019	4	541	135.3
Planned	2/26/2019	1	39	39.2

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	2/26/2019	2	579	289.3
Planned	2/26/2019	1	57	56.5
Planned	2/26/2019	1	85	85.4
Planned	2/26/2019	5	402	80.4
Planned	2/26/2019	5	857	171.4
Planned	2/26/2019	2	30	14.8
Planned	2/26/2019	1	15	14.5
Planned	2/26/2019	6	399	66.5
Planned	2/26/2019	1	134	134.0
Planned	2/26/2019	2	50	24.8
Planned	2/26/2019	3	22	7.5
Planned	2/26/2019	4	107	26.8
Planned	2/26/2019	1	116	115.7
Planned	2/26/2019	16	3,878	242.4
Planned	2/26/2019	3	762	253.9
Planned	2/26/2019	4	159	39.6
Planned	2/26/2019	1	12	12.2
Planned	2/26/2019	1	212	211.6
Planned	2/26/2019	22	1,460	66.4
Planned	2/26/2019	1	57	56.9
Planned	2/26/2019	7	212	30.2
Planned	2/26/2019	1	21	21.3
Planned	2/26/2019	1	20	20.3
Planned	2/26/2019	2	119	59.4
Planned	2/26/2019	12	738	61.5
Planned	2/26/2019	1	212	211.8
Planned	2/26/2019	1	10	10.1
Planned	2/26/2019	1	12	11.6
Planned	2/26/2019	5	50	10.0
Planned	2/26/2019	5		266.9
Planned	2/26/2019	1	1,335 38	
	2/26/2019	7	646	37.8 92.3
Planned		2	+	52.8
Planned	2/26/2019		106	
Planned	2/26/2019	11	1,410	128.2
Planned	2/26/2019	2	165	82.5
Planned	2/26/2019	10	2,385	238.5
Planned	2/26/2019	2	126	63.1
Planned	2/26/2019	2	203	101.5
Planned	2/26/2019	1	5	4.9
Planned	2/26/2019	2	32	15.9
Planned	2/26/2019	1	46	46.2
Planned	2/26/2019	5	40	7.9
Planned	2/26/2019	7	57	8.1
Planned	2/27/2019	2	123	61.6
Planned	2/27/2019	1	117	116.6
Planned	2/27/2019	2	112	55.8
Planned	2/27/2019	23	964	41.9
Planned	2/27/2019	3	611	203.8

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	2/27/2019	1	174	174.2
Planned	2/27/2019	15	620	41.3
Planned	2/27/2019	4	165	41.2
Planned	2/27/2019	1	68	67.7
Planned	2/27/2019	9	312	34.7
Planned	2/27/2019	4	156	38.9
Planned	2/27/2019	1	23	22.7
Planned	2/27/2019	5	305	61.0
Planned	2/27/2019	3	101	33.6
Planned	2/27/2019	5	43	8.6
Planned	2/27/2019	5	981	196.2
Planned	2/27/2019	2	235	117.6
Planned	2/27/2019	1	325	324.6
Planned	2/27/2019	1	324	324.5
Planned	2/27/2019	1	35	34.7
Planned	2/27/2019	5	93	18.5
Customer Request	2/27/2019	1	151	151.0
Planned	2/28/2019	5	751	150.1
Planned	2/28/2019	3	105	35.1
Planned	2/28/2019	1	278	277.5
Planned	2/28/2019	1	15	15.4
Planned	2/28/2019	1	99	99.0
Planned	2/28/2019	1	47	47.0
Planned	2/28/2019	1	115	114.8
Planned		2	82	41.0
Planned	2/28/2019	1	17	
	2/28/2019			17.0
Planned	2/28/2019	14	799	57.1
Planned	2/28/2019	1	62	62.3
Planned	2/28/2019	3	600	200.1
Planned	2/28/2019	7	89	12.7
Planned	2/28/2019	27	5,974	221.3
Planned	2/28/2019	2	144	72.0
Planned	2/28/2019	14	1,277	91.2
Planned	2/28/2019	1	61	61.2
Planned	2/28/2019	1	53	53.0
Planned	2/28/2019	8	1,107	138.4
Customer Request	2/28/2019	17	1,528	89.9
Customer Request	2/28/2019	30	7,320	244.0
Planned	3/1/2019	1	116	116.1
Planned	3/1/2019	4	183	45.8
Planned	3/1/2019	3	40	13.3
Planned	3/1/2019	27	2,178	80.7
Planned	3/1/2019	1	52	52.4
Planned	3/1/2019	6	260	43.3
Planned	3/1/2019	4	29	7.3
Planned	3/1/2019	1	79	79.1
Planned	3/1/2019	1	57	56.6
Planned	3/1/2019	6	222	36.9

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	3/1/2019	1	42	41.8
Planned	3/1/2019	2	18	8.9
Planned	3/1/2019	3	36	12.1
Planned	3/1/2019	2	25	12.6
Customer Request	3/1/2019	8	1,177	147.1
Customer Request	3/1/2019	8	933	116.6
Customer Request	3/1/2019	22	8,570	389.6
Customer Request	3/1/2019	18	6,960	386.7
Customer Request	3/1/2019	1	118	118.0
Planned	3/2/2019	4	163	40.7
Planned	3/2/2019	4	744	186.1
Customer Request	3/2/2019	1	46	46.3
Planned	3/3/2019	6	421	70.1
Planned	3/3/2019	1	56	56.0
Customer Request	3/3/2019	1	86	85.6
Customer Request	3/3/2019	1	70	70.0
Planned	3/4/2019	1	37	37.4
Planned	3/4/2019	4	393	98.2
Planned	3/4/2019	1	143	143.5
Planned	3/4/2019	1	19	19.0
Planned	3/4/2019	1	79	78.6
Planned	3/4/2019	1	17	17.3
Planned	3/4/2019	1	22	21.6
Planned	3/4/2019	13	569	43.8
Planned	3/4/2019	8	947	118.4
Planned	3/4/2019	2	487	243.5
Planned	3/4/2019	6	181	30.1
Planned	3/4/2019	16	813	50.8
Planned	3/4/2019	3	486	162.0
Planned	3/4/2019	1	25	24.9
Planned	3/4/2019	2	248	124.0
Planned	3/4/2019	4	23	5.9
Planned	3/4/2019	2	31	15.5
Planned	3/4/2019	4	341	85.2
Planned	3/4/2019	4	46	11.4
Planned	3/4/2019	13	432	33.2
Planned	3/4/2019	5	59	11.7
Planned	3/4/2019	1	18	18.1
Planned	3/4/2019	1	43	42.6
Planned	3/4/2019	1	21	20.9
Planned	3/4/2019	16	657	41.1
Planned	3/4/2019	3	63	21.2
Planned	3/4/2019	1	17	16.5
Planned	3/4/2019	2	133	66.4
Planned	3/4/2019	4	78	19.4
Planned	3/4/2019	4	28	7.0
Planned	3/4/2019	1	96	96.4
Planned	3/4/2019	1	88	88.1

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	3/4/2019	1	23	22.6
Planned	3/4/2019	2	19	9.3
Planned	3/4/2019	1	13	13.0
Planned	3/4/2019	1	38	38.3
Planned	3/4/2019	27	2,210	81.9
Customer Request	3/4/2019	4	1,666	416.4
Customer Request	3/4/2019	28	703	25.1
Customer Request	3/4/2019	28	288	10.3
Planned	3/5/2019	3	20	6.8
Planned	3/5/2019	1	41	40.6
Planned	3/5/2019	3	58	19.2
Planned	3/5/2019	1	20	20.3
Planned	3/5/2019	1	62	62.4
Planned	3/5/2019	4	155	38.7
Planned	3/5/2019	6	755	125.9
Planned	3/5/2019	8	163	20.3
Planned	3/5/2019	6	291	48.5
Planned	3/5/2019	3	73	24.3
Planned	3/5/2019	1	84	83.7
Planned	3/5/2019	4	163	40.6
Planned	3/5/2019	1	15	15.1
Planned	3/5/2019	21	1,750	83.3
Planned	3/5/2019	2	77	38.6
Planned	3/5/2019	1	19	18.8
Planned	3/5/2019	24	2,428	101.2
Planned	3/5/2019	1	85	85.2
Planned	3/5/2019	9	304	33.7
Planned	3/5/2019	6	99	16.5
Planned	3/5/2019	1	41	40.8
Planned	3/5/2019	1	38	38.2
Planned	3/5/2019	4	922	230.6
	3/5/2019	1	37	37.5
Planned Planned		1	90	
	3/5/2019			89.8
Planned	3/5/2019	3	85	28.4
Planned	3/5/2019	4	70	17.4
Planned	3/5/2019	7	342	48.8
Planned	3/5/2019	1	49	48.8
Planned	3/5/2019	1	13	13.4
Planned	3/5/2019	1	13	12.8
Planned	3/5/2019	4	90	22.4
Planned	3/5/2019	3	502	167.4
Planned	3/5/2019	1	94	93.5
Planned	3/5/2019	1	94	93.8
Planned	3/5/2019	1	28	28.4
Planned	3/5/2019	2	67	33.7
Planned	3/5/2019	1	9	8.8
Planned	3/5/2019	1	16	16.4
Planned	3/6/2019	1	31	31.3

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	3/6/2019	1	20	19.8
Planned	3/6/2019	2	583	291.4
Planned	3/6/2019	1	118	117.9
Planned	3/6/2019	4	789	197.2
Planned	3/6/2019	1	111	111.0
Planned	3/6/2019	3	237	79.0
Planned	3/6/2019	1	19	19.2
Planned	3/6/2019	24	450	18.8
Planned	3/6/2019	1	41	40.8
Planned	3/6/2019	1	32	32.5
Planned	3/6/2019	4	312	78.0
Planned	3/6/2019	1	64	63.6
Planned	3/6/2019	4	61	15.2
Planned	3/6/2019	3	16	5.5
Planned	3/6/2019	4	747	186.8
Planned	3/6/2019	1	152	151.9
Planned	3/6/2019	4	204	51.0
Planned	3/6/2019	5	702	140.4
Planned	3/6/2019	1	83	83.4
Planned	3/6/2019	2	397	198.5
Planned	3/6/2019	5	309	61.7
Planned	3/6/2019	1	21	20.8
Planned	3/6/2019	1	15	14.9
Planned	3/6/2019	3	212	70.8
Planned		1	62	
Planned	3/6/2019	5	102	61.6
	3/6/2019	3		20.3
Customer Request	3/6/2019		977	325.7
Customer Request	3/6/2019	12	744	62.0
Planned	3/7/2019	13	1,321	101.7
Planned	3/7/2019	5	151	30.2
Planned	3/7/2019	2	373	186.7
Planned	3/7/2019	1	21	21.4
Planned	3/7/2019	1	252	252.1
Planned	3/7/2019	6	316	52.6
Planned	3/7/2019	6	289	48.2
Planned	3/7/2019	3	114	38.1
Planned	3/7/2019	4	88	22.0
Planned	3/7/2019	1	28	27.6
Planned	3/7/2019	3	116	38.6
Planned	3/7/2019	1	17	16.9
Planned	3/7/2019	4	394	98.5
Planned	3/7/2019	1	100	99.8
Planned	3/7/2019	1	26	26.3
Planned	3/7/2019	6	263	43.9
Planned	3/7/2019	1	62	61.8
Planned	3/7/2019	1	62	61.7
Planned	3/7/2019	1	62	61.7
Planned	3/7/2019	1	33	32.8

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	3/7/2019	3	279	93.0
Planned	3/7/2019	4	412	103.1
Planned	3/7/2019	1	41	40.7
Planned	3/7/2019	1	73	73.4
Planned	3/7/2019	1	36	36.5
Planned	3/7/2019	1	36	36.5
Planned	3/7/2019	1	37	36.5
Planned	3/7/2019	1	28	28.2
Planned	3/7/2019	3	47	15.7
Planned	3/7/2019	8	347	43.3
Planned	3/7/2019	1	26	26.1
Planned	3/7/2019	2	42	21.2
Planned	3/7/2019	4	558	139.5
Customer Request	3/7/2019	1	169	169.0
Customer Request	3/7/2019	1	48	48.0
Planned	3/8/2019	3	228	76.2
Planned	3/8/2019	9	575	63.8
Planned	3/8/2019	1	5	5.4
Planned	3/8/2019	2	24	12.0
Planned	3/8/2019	1	114	114.0
Planned	3/8/2019	2	179	89.5
Planned	3/8/2019	4	102	25.5
Planned	3/8/2019	5	65	13.0
Planned	3/8/2019	5	68	13.6
Planned	3/8/2019	2	25	12.3
Planned	3/8/2019	16	351	22.0
Planned	3/8/2019	1	233	233.0
Planned	3/9/2019	6	304	50.7
Planned	3/9/2019	3	106	35.2
Planned	3/9/2019	20	610	30.5
Planned	3/9/2019	1	55	54.9
Planned	3/10/2019	1	19	18.8
Planned	3/10/2019	2	429	214.7
Planned	3/10/2019	8	62	7.7
Planned	3/11/2019	6	356	59.3
Planned	3/11/2019	1	71	70.5
Planned	3/11/2019	1	140	140.4
Planned	3/11/2019	8	96	12.0
Planned	3/11/2019	3	129	42.9
Planned	3/11/2019	1	224	223.8
Planned	3/11/2019	4	1,086	271.6
Planned	3/11/2019	5	63	12.7
Planned	3/11/2019	2	514	257.0
Planned	3/11/2019	5	1,388	277.6
Planned	3/11/2019	1	278	277.6
Planned	3/11/2019	4	582	145.6
Planned	3/11/2019	1	17	16.7
Planned	3/11/2019	1	137	137.3

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	3/11/2019	19	2,580	135.8
Planned	3/11/2019	2	518	258.8
Planned	3/11/2019	4	925	231.2
Planned	3/11/2019	2	430	214.9
Planned	3/11/2019	2	458	229.1
Planned	3/11/2019	1	111	110.8
Planned	3/11/2019	1	120	119.7
Planned	3/11/2019	1	35	35.1
Planned	3/11/2019	8	593	74.1
Planned	3/11/2019	1	33	32.6
Planned	3/11/2019	1	34	34.0
Planned	3/11/2019	6	127	21.2
Planned	3/12/2019	21	138	6.6
Planned	3/12/2019	3	68	22.8
Planned	3/12/2019	1	137	136.7
Planned	3/12/2019	11	559	50.9
Planned	3/12/2019	2	114	57.2
Planned	3/12/2019	5	612	122.3
Planned	3/12/2019	3	38	12.8
Planned	3/12/2019	4	439	109.7
Planned	3/12/2019	2	36	17.9
Planned	3/12/2019	6	705	117.6
Planned	3/12/2019	1	59	59.4
Planned	3/12/2019	1	138	138.0
Planned	3/12/2019	1	17	16.6
Planned	3/12/2019	1	27	26.8
Planned	3/12/2019	1	137	137.0
Planned	3/12/2019	19	2,585	136.1
Planned	3/12/2019	1	125	125.2
Planned	3/12/2019	1	19	19.4
Planned	3/12/2019	1	102	102.0
Planned	3/12/2019	3	179	59.7
Planned	3/12/2019	5	204	40.7
Planned	3/12/2019	2	109	54.4
Planned	3/12/2019	1	54	54.4
Planned	3/12/2019	4	56	14.0
Planned	3/12/2019	1	27	27.1
Planned	3/12/2019	3	68	22.8
Planned	3/12/2019	1	170	169.6
Planned	3/12/2019	1	34	34.0
Planned	3/12/2019	4	189	47.3
Planned	3/12/2019	13	1,538	118.3
Planned	3/12/2019	2	61	30.3
Planned	3/12/2019	1	7	6.9
Planned	3/12/2019	4	632	158.1
Customer Request	3/12/2019	0	0	85.0
Planned	3/13/2019	1	9	9.3
Planned	3/13/2019	5	321	64.3

Q13 – Di	stribution Exc	luded Out	age Events	
Causation	Date	CI	CMI	L-Bar
Planned	3/13/2019	1	61	61.4
Planned	3/13/2019	1	126	126.2
Planned	3/13/2019	10	1,624	162.4
Planned	3/13/2019	1	531	531.0
Planned	3/13/2019	10	432	43.2
Planned	3/13/2019	4	51	12.7
Planned	3/13/2019	2	43	21.7
Planned	3/13/2019	5	519	103.8
Planned	3/13/2019	1	472	471.6
Planned	3/13/2019	1	84	83.7
Planned	3/13/2019	4	86	21.5
Planned	3/13/2019	2	33	16.5
Planned	3/13/2019	1	20	19.6
Planned	3/13/2019	2	68	33.9
Planned	3/13/2019	4	371	92.8
Planned	3/13/2019	18	2,266	125.9
Planned	3/13/2019	6	1,164	194.1
Planned	3/13/2019	2	41	20.6
Planned	3/13/2019	1	365	364.8
Planned		1	6	
	3/13/2019	1		5.9
Planned	3/13/2019		299	299.3
Planned	3/13/2019	48	1,015	21.2
Planned	3/13/2019	2	59	29.7
Planned	3/13/2019	22	470	21.4
Planned	3/13/2019	5	359	71.8
Planned	3/13/2019	1	124	124.0
Planned	3/13/2019	1	126	125.9
Planned	3/13/2019	1	141	141.3
Planned	3/13/2019	3	44	14.5
Planned	3/13/2019	1	102	101.8
Planned	3/13/2019	1	49	48.9
Planned	3/13/2019	1	49	48.8
Planned	3/13/2019	3	398	132.6
Planned	3/13/2019	5	108	21.7
Planned	3/13/2019	2	44	21.9
Planned	3/13/2019	18	2,038	113.2
Customer Request	3/13/2019	50	12,308	246.2
Customer Request	3/13/2019	1	58	58.4
Planned	3/14/2019	4	159	39.9
Planned	3/14/2019	1	117	116.9
Planned	3/14/2019	2	130	65.0
Planned	3/14/2019	4	1,474	368.6
Planned	3/14/2019	1	16	15.7
Planned	3/14/2019	1	87	87.1
Planned	3/14/2019	2	348	173.9
Planned	3/14/2019	8	318	39.8
Planned	3/14/2019	1	208	208.1
Planned	3/14/2019	3	16	5.2

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	3/14/2019	4	304	76.0
Planned	3/14/2019	1	155	155.0
Planned	3/14/2019	94	1,178	12.5
Planned	3/14/2019	1	46	46.3
Planned	3/14/2019	6	135	22.5
Planned	3/14/2019	2	57	28.6
Planned	3/14/2019	1	33	33.1
Planned	3/14/2019	2	212	106.0
Planned	3/14/2019	2	65	32.7
Planned	3/14/2019	5	57	11.4
Customer Request	3/14/2019	1	88	88.1
Customer Request	3/14/2019	20	820	41.0
Customer Request	3/14/2019	1	74	74.4
Customer Request	3/14/2019	0	0	39.0
Planned	3/15/2019	1	68	68.0
Planned	3/15/2019	1	43	42.9
Planned	3/15/2019	4	48	11.9
Planned	3/15/2019	1	34	33.8
Planned	3/15/2019	1	363	362.7
Planned	3/15/2019	1	35	34.8
Planned	3/15/2019	1	81	81.1
Planned	3/15/2019	6	178	29.6
Planned	3/15/2019	6	264	44.0
Planned	3/15/2019	1	32	31.7
Planned	3/15/2019	4	110	27.5
Planned	3/15/2019	7	554	79.2
Planned	3/15/2019	3	310	103.2
Planned	3/15/2019	1	107	107.0
Planned	3/15/2019	1	34	33.9
Planned	3/15/2019	3	90	30.1
Customer Request	3/15/2019	1	33	32.7
Customer Request	3/15/2019	1	32	32.0
Planned	3/16/2019	1	294	294.1
Planned	3/16/2019	3	176	58.8
Planned	3/16/2019	6	336	55.9
Planned	3/16/2019	1	17	17.3
Customer Request	3/16/2019	5	735	147.0
Planned	3/17/2019	4	1,068	267.0
Planned	3/17/2019	3	51	17.2
Planned	3/18/2019	8	1,048	131.1
Planned	3/18/2019	2	130	64.8
Planned	3/18/2019	1	36	36.3
Planned	3/18/2019	40	268	6.7
Planned	3/18/2019	1	7	6.8
Planned	3/18/2019	2	187	93.6
Planned	3/18/2019	1	52	52.3
Planned	3/18/2019	10	2,145	214.5
Planned	3/18/2019	3	163	54.5

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	3/18/2019	2	151	75.7
Planned	3/18/2019	3	353	117.7
Planned	3/18/2019	6	213	35.5
Planned	3/18/2019	2	194	97.0
Planned	3/18/2019	12	2,060	171.7
Planned	3/18/2019	1	35	34.9
Planned	3/18/2019	5	41	8.2
Planned	3/18/2019	1	42	42.1
Planned	3/18/2019	5	222	44.5
Planned	3/18/2019	1	34	33.7
Planned	3/18/2019	1	61	60.8
Planned	3/18/2019	2	153	76.5
Planned	3/18/2019	5	202	40.4
Planned	3/18/2019	1	31	31.0
Planned	3/18/2019	3	506	168.6
Planned	3/18/2019	1	219	218.7
Planned	3/18/2019	2	76	38.0
Planned	3/18/2019	2	110	55.1
Planned	3/18/2019	4	204	51.1
Planned	3/18/2019	2	85	42.6
Planned	3/18/2019	3	136	45.4
Planned	3/18/2019	6	75	12.4
Planned	3/18/2019	2	28	14.1
Planned	3/18/2019	3	122	40.6
Planned	3/18/2019	8	481	60.1
Planned	3/18/2019	1	45	45.0
Planned	3/18/2019	2	164	81.8
Planned	3/18/2019	1	21	20.5
Planned	3/18/2019	1	61	60.9
Planned	3/18/2019	3	23	7.5
Customer Request	3/18/2019	1	38	38.1
Planned	3/19/2019	1	161	160.9
Planned	3/19/2019	4	495	123.7
Planned	3/19/2019	8	989	123.7
Planned	3/19/2019	1	208	208.5
Planned	3/19/2019	2	25	12.7
Planned	3/19/2019	2	341	
Planned		1	37	170.4
	3/19/2019 3/19/2019	1	82	36.9
Planned		1	58	82.1
Planned Planned	3/19/2019	1		58.0 15.0
	3/19/2019	7	15	15.0
Planned	3/19/2019 3/19/2019	1	663	94.7 11.7
Planned			+	
Planned	3/19/2019	3	253	84.3
Planned	3/19/2019	15	30	2.0
Planned	3/19/2019	2	164	82.0
Planned	3/19/2019	2	52	26.1
Planned	3/19/2019	1	37	37.0

Q13 – Distribution Excluded Outage Events					
Causation	Date	CI	CMI	L-Bar	
Planned	3/19/2019	4	138	34.5	
Planned	3/19/2019	1	68	68.3	
Planned	3/19/2019	4	355	88.9	
Planned	3/19/2019	1	68	68.4	
Planned	3/19/2019	1	119	119.4	
Planned	3/19/2019	11	504	45.8	
Planned	3/19/2019	112	11,917	106.4	
Planned	3/19/2019	1	84	84.4	
Planned	3/19/2019	2	127	63.6	
Planned	3/19/2019	1	140	139.8	
Customer Request	3/19/2019	1	22	22.4	
Customer Request	3/19/2019	1	13	13.2	
Planned	3/20/2019	6	166	27.7	
Planned	3/20/2019	2	52	25.9	
Planned	3/20/2019	8	246	30.8	
Planned	3/20/2019	5	53	10.6	
Planned	3/20/2019	4	91	22.7	
Planned	3/20/2019	6	1,340	223.4	
Planned	3/20/2019	25	700	28.0	
Planned	3/20/2019	5	494	98.9	
Planned	3/20/2019	4	443	110.7	
Planned	3/20/2019	4	368	92.0	
Planned	3/20/2019	4	147	36.7	
Planned	3/20/2019	1	168	168.0	
Planned	3/20/2019	15	2,645	176.3	
Planned	3/20/2019	3	372	124.1	
Planned	3/20/2019	1	30	30.0	
Planned	3/20/2019	1	59	59.3	
Planned	3/20/2019	1	6	6.0	
Planned	3/20/2019	1	66	66.1	
Planned	3/20/2019	1	36	36.4	
Planned	3/20/2019	7	680	97.1	
Planned	3/20/2019	8	298	37.2	
Planned	3/20/2019	16	2,236	139.8	
Planned	3/20/2019	6	330	54.9	
Planned	3/20/2019	2	19	9.6	
Planned	3/20/2019	8	175	21.8	
Planned	3/20/2019	2	16	7.9	
Planned	3/20/2019	11	201	18.2	
Planned	3/20/2019	11	213	19.4	
Planned	3/20/2019	6	351	58.5	
Planned	3/20/2019	6	941	156.8	
Planned	3/20/2019	1	41	41.0	
Planned	3/20/2019	8	689	86.1	
Planned	3/20/2019	1	20	20.1	
Planned	3/20/2019	3	352	117.5	
Planned	3/20/2019	6	82	13.7	
Planned	3/20/2019	3	64	21.4	

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	3/20/2019	3	165	54.8
Planned	3/20/2019	1	63	63.1
Customer Request	3/20/2019	1	137	136.8
Customer Request	3/20/2019	1	58	58.0
Planned	3/21/2019	1	80	80.0
Planned	3/21/2019	1	114	114.1
Planned	3/21/2019	6	541	90.1
Planned	3/21/2019	7	226	32.3
Planned	3/21/2019	4	879	219.8
Planned	3/21/2019	10	592	59.2
Planned	3/21/2019	1	95	95.4
Planned	3/21/2019	11	1,558	141.6
Planned	3/21/2019	2	11	5.5
Planned	3/21/2019	1	10	9.9
Planned	3/21/2019	3	131	43.7
Planned	3/21/2019	1	35	35.0
Planned	3/21/2019	1	102	102.0
Planned	3/21/2019	2	100	49.8
Planned	3/21/2019	1	31	30.7
Planned	3/21/2019	17	927	54.6
Planned	3/21/2019	6	93	15.6
Planned	3/21/2019	6	92	15.3
	3/21/2019	3	528	175.9
Planned		6		
Planned	3/21/2019		273	45.5
Planned	3/21/2019	1	136	136.4
Planned	3/22/2019	2	22	11.0
Planned	3/22/2019	1	355	355.0
Planned	3/22/2019	3	12	4.0
Planned	3/22/2019	4	343	85.7
Planned	3/22/2019	1	57	56.5
Planned	3/22/2019	3	63	20.9
Planned	3/22/2019	6	342	57.0
Planned	3/22/2019	3	107	35.6
Planned	3/22/2019	5	378	75.7
Planned	3/22/2019	1	73	72.9
Planned	3/22/2019	4	67	16.9
Planned	3/22/2019	2	36	17.9
Planned	3/22/2019	1	43	43.1
Planned	3/22/2019	3	31	10.2
Planned	3/22/2019	16	368	23.0
Planned	3/22/2019	3	187	62.3
Planned	3/22/2019	10	876	87.6
Planned	3/22/2019	1	54	53.7
Planned	3/22/2019	7	323	46.2
Planned	3/22/2019	3	462	154.1
Planned	3/22/2019	3	91	30.4
Planned	3/22/2019	1	7	7.2
Planned	3/22/2019	1	15	14.9

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	3/23/2019	1	50	49.9
Planned	3/23/2019	785	5,037	6.4
Planned	3/23/2019	1	34	33.7
Planned	3/23/2019	1	43	43.2
Planned	3/23/2019	5	50	10.0
Customer Request	3/23/2019	1	22	21.8
Planned	3/24/2019	1	17	17.3
Planned	3/25/2019	6	185	30.8
Planned	3/25/2019	1	15	14.5
Planned	3/25/2019	4	447	111.8
Planned	3/25/2019	3	85	28.5
Planned	3/25/2019	2	80	39.8
Planned	3/25/2019	1	92	92.5
Planned	3/25/2019	3	41	13.5
Planned	3/25/2019	1	147	147.1
Planned	3/25/2019	4	90	22.4
Planned	3/25/2019	26	668	25.7
Planned	3/25/2019	3	193	64.3
Planned	3/25/2019	1	69	68.7
Planned	3/25/2019	6	47	7.9
Planned	3/25/2019	3	24	8.1
Planned	3/25/2019	3	278	92.8
Planned	3/25/2019	3	361	120.3
Planned	3/25/2019	1	38	37.9
Planned	3/25/2019	1	74	74.4
Planned	3/25/2019	3	32	10.7
Planned	3/25/2019	5	1,055	211.0
Planned	3/25/2019	4	545	136.2
Planned	3/25/2019	8	1,189	148.6
Planned	3/25/2019	4	68	17.0
Planned	3/25/2019	1	16	16.3
Planned	3/25/2019	4	491	122.8
Planned	3/25/2019	2	431	21.3
	3/25/2019	21	412	19.6
Planned	3/25/2019	1	33	33.3
Planned		1	18	
Planned	3/25/2019		+	17.9
Planned	3/25/2019	1	31	31.1
Planned	3/25/2019	3	93	30.9
Planned	3/25/2019	4	222	55.5
Planned	3/25/2019	5	112	22.4
Planned	3/25/2019	1	51	51.5
Planned	3/25/2019	6	94	15.7
Planned	3/25/2019	7	997	142.5
Planned	3/25/2019	1	38	37.7
Planned	3/25/2019	2	18	9.1
Customer Request	3/25/2019	9	2,023	224.8
Customer Request	3/25/2019	1	122	122.0
Planned	3/26/2019	2	73	36.5

Q13 – Di	Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar	
Planned	3/26/2019	2	56	28.0	
Planned	3/26/2019	23	117	5.1	
Planned	3/26/2019	17	1,079	63.5	
Planned	3/26/2019	6	407	67.8	
Planned	3/26/2019	1	97	96.9	
Planned	3/26/2019	1	21	21.2	
Planned	3/26/2019	15	800	53.3	
Planned	3/26/2019	3	46	15.3	
Planned	3/26/2019	6	418	69.7	
Planned	3/26/2019	1	63	63.3	
Planned	3/26/2019	3	40	13.3	
Planned	3/26/2019	1	76	76.4	
Planned	3/26/2019	3	324	108.0	
Planned	3/26/2019	6	75	12.5	
Planned	3/26/2019	18	754	41.9	
Planned	3/26/2019	3	462	154.0	
Planned	3/26/2019	3	132	43.9	
Planned	3/26/2019	10	1,581	158.1	
Planned	3/26/2019	10	1,601	160.1	
Planned	3/26/2019	5	692	138.3	
Planned	3/26/2019	2	153	76.5	
Planned	3/26/2019	4	444	111.0	
Planned	3/26/2019	1	194	194.2	
Planned	3/26/2019	2	164	82.1	
Planned	3/26/2019	3	74	24.6	
Planned	3/26/2019	23	112	4.9	
Planned	3/26/2019	2	61	30.7	
Planned	3/26/2019	7	314	44.9	
Planned	3/26/2019	2	52	25.8	
Planned	3/26/2019	2	27	13.5	
Planned	3/26/2019	1	27	27.4	
Planned	3/26/2019	2	64	32.0	
Planned	3/26/2019	13	1,435	110.4	
Planned	3/26/2019	2	159	79.7	
Planned	3/26/2019	4	267	66.8	
Planned	3/26/2019	2	199	99.3	
Planned	3/26/2019	1	18	18.0	
Planned	3/26/2019	4	121	30.3	
Planned	3/26/2019	1	28	28.0	
Planned	3/26/2019	1	47	47.3	
Planned	3/26/2019	23	437	19.0	
Customer Request	3/26/2019	0	0	49.6	
Customer Request	3/26/2019	1	50	49.9	
Customer Request	3/26/2019	9	429	47.7	
Customer Request	3/26/2019	14	1,294	92.4	
Planned	3/27/2019	1	14	14.5	
Planned	3/27/2019	1	70	70.4	
Planned	3/27/2019	1	355	355.2	

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	3/27/2019	1	6	6.4
Planned	3/27/2019	3	413	137.6
Planned	3/27/2019	2	153	76.5
Planned	3/27/2019	1	21	21.0
Planned	3/27/2019	1	19	18.6
Planned	3/27/2019	2	102	50.9
Planned	3/27/2019	3	291	97.1
Planned	3/27/2019	3	183	60.9
Planned	3/27/2019	1	29	29.3
Planned	3/27/2019	3	132	44.1
Planned	3/27/2019	1	12	12.0
Planned	3/27/2019	1	25	25.4
Planned	3/27/2019	1	20	19.7
Planned	3/27/2019	1	18	17.9
Planned	3/27/2019	2	240	120.2
Planned	3/27/2019	7	1,332	190.4
Planned	3/27/2019	1	33	32.6
Planned	3/27/2019	2	162	80.8
Customer Request	3/27/2019	23	1,495	65.0
Customer Request	3/27/2019	1	29	28.9
Customer Request	3/27/2019	22	97	4.4
Customer Request	3/27/2019	15	116	7.7
Planned	3/28/2019	2	131	65.5
Planned	3/28/2019	15	1,781	118.7
Planned	3/28/2019	2	67	33.3
Planned	3/28/2019	20	355	17.8
		20	80	40.2
Planned	3/28/2019	6		
Planned	3/28/2019	1	383	63.8
Planned	3/28/2019		177	177.1
Planned	3/28/2019	7	675	96.4
Planned	3/28/2019	5	58	11.7
Planned	3/28/2019	2	618	154.6
Planned	3/28/2019		44	21.9
Planned	3/28/2019	2	54	27.0
Planned	3/28/2019	9	362	40.2
Planned	3/28/2019	3	18	5.9
Planned	3/28/2019	1	41	40.6
Planned	3/28/2019	1	13	12.5
Planned	3/28/2019	50	316	6.3
Planned	3/28/2019	4	129	32.2
Planned	3/28/2019	1	24	23.7
Planned	3/28/2019	1	17	16.8
Planned	3/28/2019	1	21	21.5
Planned	3/28/2019	2	134	66.9
Planned	3/28/2019	3	76	25.4
Planned	3/28/2019	6	956	159.3
Planned	3/28/2019	2	43	21.6
Planned	3/28/2019	1	19	19.4

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Customer Request	3/28/2019	1	108	108.0
Customer Request	3/28/2019	1	240	239.6
Customer Request	3/28/2019	1	42	42.0
Customer Request	3/28/2019	23	440	19.1
Customer Request	3/28/2019	1	169	169.4
Customer Request	3/28/2019	1	74	74.0
Customer Request	3/28/2019	15	163	10.9
Customer Request	3/28/2019	1	52	52.0
Customer Request	3/28/2019	1	50	50.0
Planned	3/29/2019	1	59	59.3
Planned	3/29/2019	1	48	47.6
Planned	3/29/2019	3	49	16.3
Planned	3/29/2019	3	155	51.8
Planned	3/29/2019	3	32	10.7
Planned	3/29/2019	4	830	207.6
Planned	3/29/2019	4	225	56.3
Planned	3/29/2019	4	57	14.3
Planned	3/29/2019	4	105	26.3
Planned	3/29/2019	2	281	140.6
Planned	3/29/2019	4	72	18.0
Planned	3/29/2019	1	85	85.1
Planned	3/29/2019	6	306	51.0
Customer Request	3/29/2019	1	85	85.0
Customer Request	3/29/2019	1	87	87.0
Planned	3/30/2019	1	19	19.4
Planned	3/30/2019	1	21	21.0
Planned	3/30/2019	2	38	19.1
Planned	3/30/2019	10	542	54.2
Planned	3/30/2019	2	29	14.4
Customer Request	3/30/2019	0	0	8.8
Customer Request	3/30/2019	0	0	14.0
Planned	3/31/2019	13	311	23.9
Planned	3/31/2019	2	84	42.1
Planned	4/1/2019	3	602	200.6
Planned	4/1/2019	3	149	49.8
Planned	4/1/2019	1	47	46.6
Planned	4/1/2019	1	20	19.6
Planned	4/1/2019	1	51	51.2
Planned	4/1/2019	7	1,043	149.0
Planned	4/1/2019	5	617	123.3
Planned	4/1/2019	7	70	10.1
Planned	4/1/2019	2	144	72.0
Planned	4/1/2019	10	923	92.3
Planned	4/1/2019	2	240	120.0
Planned	4/1/2019	12	1,960	163.4
Planned	4/1/2019	8	577	72.1
Planned	4/1/2019	3	129	43.1
Planned	4/1/2019	3	208	69.2

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	4/1/2019	2	47	23.4
Planned	4/1/2019	9	843	93.7
Planned	4/1/2019	13	646	49.7
Planned	4/1/2019	113	7,852	69.5
Planned	4/1/2019	39	865	22.2
Planned	4/1/2019	1	25	24.7
Planned	4/1/2019	2	268	134.0
Planned	4/1/2019	4	396	99.0
Planned	4/1/2019	8	1,136	142.0
Planned	4/1/2019	7	66	9.5
Planned	4/1/2019	6	27	4.6
Planned	4/1/2019	39	387	9.9
Planned	4/1/2019	3	168	56.0
Planned	4/1/2019	4	583	145.7
Planned	4/1/2019	2	23	11.4
Planned	4/1/2019	1	12	11.6
Planned	4/1/2019	4	264	66.0
Planned	4/1/2019	1	129	128.7
Planned	4/1/2019	18	539	29.9
Planned	4/1/2019	1	83	83.0
Planned	4/1/2019	1	23	22.6
Planned	4/1/2019	7	241	34.5
Planned	4/1/2019	1	38	37.6
Customer Request	4/1/2019	1	244	244.5
Customer Request	4/1/2019	1	54	54.0
Planned	4/2/2019	7	651	93.0
Planned	4/2/2019	4	404	101.0
Planned	4/2/2019	1	101	100.8
Planned	4/2/2019	1	28	27.5
Planned	4/2/2019	1	27	27.4
Planned	4/2/2019	1	356	355.8
Planned	4/2/2019	4	373	93.3
Planned	4/2/2019	6	204	34.0
Planned	4/2/2019	1	9	9.0
Planned	4/2/2019	3	474	158.0
Planned	4/2/2019	5	98	19.6
Planned	4/2/2019	3	279	92.9
Planned	4/2/2019	2	23	11.7
Planned	4/2/2019	1	55	55.4
Planned	4/2/2019	2	70	35.0
Planned	4/2/2019	2	30	15.2
Planned	4/2/2019	2	265	132.4
Planned	4/2/2019	3	534	178.0
Planned	4/2/2019	7	238	34.1
Planned	4/2/2019	138	12,558	91.0
Planned	4/2/2019	3	129	43.0
Planned	4/2/2019	1	43	43.1
Planned	4/2/2019	1	83	83.0

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	4/2/2019	1	219	219.0
Planned	4/2/2019	1	5	5.3
Planned	4/2/2019	4	1,008	252.1
Planned	4/2/2019	2	26	13.0
Planned	4/2/2019	13	1,238	95.2
Planned	4/2/2019	1	17	17.0
Planned	4/2/2019	2	174	87.0
Planned	4/2/2019	3	253	84.4
Planned	4/2/2019	4	640	160.0
Planned	4/2/2019	1	26	25.8
Planned	4/2/2019	3	319	106.5
Planned	4/2/2019	5	508	101.7
Planned	4/2/2019	4	50	12.6
Planned	4/2/2019	1	142	142.0
Planned	4/2/2019	1	48	47.9
Planned	4/2/2019	1	26	25.8
Customer Request	4/2/2019	1	131	131.0
Planned	4/3/2019	13	3,449	265.3
Planned	4/3/2019	4	78	19.6
Planned	4/3/2019	1	309	308.8
Planned	4/3/2019	2	76	37.8
Planned	4/3/2019	1	40	40.1
Planned	4/3/2019	2	242	121.0
Planned	4/3/2019	1	316	315.8
Planned	4/3/2019	3	36	11.9
Planned	4/3/2019	19	1,718	90.4
Planned	4/3/2019	11	1,229	111.7
Planned	4/3/2019	1	114	113.7
Planned	4/3/2019	1	63	62.6
Planned	4/3/2019	1	51	50.8
Planned	4/3/2019	5	261	52.3
Planned	4/3/2019	1	27	27.0
Planned	4/3/2019	1	28	28.5
Planned	4/3/2019	9	1,222	135.7
Planned	4/3/2019	19	2,577	135.6
Planned	4/3/2019	5	1,173	234.6
Planned	4/3/2019	1	9	9.5
Planned	4/3/2019	1	63	62.7
Planned	4/3/2019	1	27	26.8
Planned	4/3/2019	1	52	52.2
Planned	4/3/2019	11	1,075	97.7
Planned	4/3/2019	2	172	86.1
Planned	4/3/2019	7	147	21.0
Planned	4/3/2019	2	89	44.4
Customer Request	4/3/2019	1	12	11.9
Planned	4/4/2019	3	599	199.7
Planned	4/4/2019	5	927	185.4
Planned	4/4/2019	1	24	24.4

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	4/4/2019	1	51	51.2
Planned	4/4/2019	4	637	159.4
Planned	4/4/2019	1	14	13.7
Planned	4/4/2019	2	30	15.0
Planned	4/4/2019	4	400	99.9
Planned	4/4/2019	6	48	8.1
Planned	4/4/2019	1	84	83.7
Planned	4/4/2019	7	53	7.6
Planned	4/4/2019	1	6	5.7
Planned	4/4/2019	4	364	91.0
Planned	4/4/2019	1	23	23.0
Planned	4/4/2019	5	240	48.0
Planned	4/4/2019	1	10	9.6
Planned	4/4/2019	4	62	15.4
Planned	4/4/2019	5	123	24.6
Planned	4/5/2019	1	24	24.3
Planned	4/5/2019	3	63	21.1
Planned	4/5/2019	4	362	90.6
Planned	4/5/2019	5	211	42.2
Planned	4/5/2019	7	231	33.0
Planned	4/5/2019	1	17	17.2
Planned	4/6/2019	6	132	22.1
Planned	4/6/2019	3	137	45.7
Planned	4/6/2019	1	121	121.5
Planned	4/6/2019	2	90	44.8
Planned	4/6/2019	2	128	63.8
Planned	4/6/2019	54	1,145	21.2
Planned	4/6/2019	3	232	77.3
Customer Request	4/6/2019	1	113	113.0
Planned	4/7/2019	1	38	37.8
Planned	4/7/2019	1	36	36.2
Planned	4/7/2019	1	20	20.4
Customer Request	4/7/2019	1	84	84.4
Planned	4/8/2019	1	29	29.0
Planned	4/8/2019	5	242	48.5
Planned	4/8/2019	1	43	42.6
Planned	4/8/2019	16	229	14.3
Planned	4/8/2019	2	183	91.4
Planned	4/8/2019	3	46	15.4
Planned	4/8/2019	1	10	10.3
Planned	4/8/2019	5	75	15.0
Planned	4/8/2019	13	578	44.5
Planned	4/8/2019	1	19	19.1
Planned	4/8/2019	1	45	44.7
Planned	4/8/2019	12	490	40.9
Planned	4/8/2019	1	162	162.3
Planned	4/8/2019	3	129	43.1
Planned	4/8/2019	1	59	59.3

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	4/8/2019	1	15	14.7
Customer Request	4/8/2019	1	78	77.9
Planned	4/9/2019	6	274	45.7
Planned	4/9/2019	3	65	21.6
Planned	4/9/2019	5	496	99.1
Planned	4/9/2019	1	49	49.3
Planned	4/9/2019	26	436	16.8
Planned	4/9/2019	1	33	33.5
Planned	4/9/2019	5	393	78.5
Planned	4/9/2019	1	10	10.2
Planned	4/9/2019	9	2,508	278.7
Planned	4/9/2019	19	856	45.1
Planned	4/9/2019	6	49	8.2
Planned	4/9/2019	4	594	148.6
Planned	4/9/2019	19	386	20.3
Planned	4/9/2019	4	579	144.7
Planned	4/9/2019	1	119	118.6
Planned	4/9/2019	1	25	24.9
Planned	4/9/2019	3	302	100.8
Planned	4/9/2019	2	202	100.9
Planned	4/9/2019	1	30	30.4
Planned	4/9/2019	4	654	163.6
Planned	4/9/2019	2	233	116.4
Planned	4/9/2019	2	38	18.9
Planned	4/9/2019	3	111	37.0
Planned	4/9/2019	1	62	62.3
Planned	4/9/2019	1	79	79.3
Planned	4/9/2019	1	22	21.6
Planned	4/9/2019	2	39	19.3
Planned	4/9/2019	1	37	37.1
Planned	4/9/2019	1	32	
	4/9/2019	3	94	31.6 31.4
Planned Planned		2	29	14.6
	4/9/2019		+	
Planned	4/9/2019	1	42	41.9
Planned	4/9/2019	6	668	111.4
Planned	4/9/2019	4	60	15.0
Planned	4/9/2019	1	225	224.8
Planned	4/9/2019	1	7	6.8
Planned	4/9/2019	1	263	263.3
Planned	4/9/2019	1	74	73.7
Planned	4/9/2019	1	111	111.5
Customer Request	4/9/2019	82	9,687	118.1
Customer Request	4/9/2019	12	1,428	119.0
Planned	4/10/2019	4	598	149.4
Planned	4/10/2019	11	3,470	315.5
Planned	4/10/2019	7	949	135.6
Planned	4/10/2019	2	95	47.4
Planned	4/10/2019	3	197	65.7

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	4/10/2019	7	626	89.4
Planned	4/10/2019	3	95	31.6
Planned	4/10/2019	1	27	26.9
Planned	4/10/2019	1	51	51.4
Planned	4/10/2019	6	627	104.5
Planned	4/10/2019	1	23	23.3
Planned	4/10/2019	1	102	101.8
Planned	4/10/2019	1	102	102.0
Planned	4/10/2019	2	172	85.8
Planned	4/10/2019	2	165	82.7
Planned	4/10/2019	1	7	7.0
Planned	4/10/2019	3	63	21.2
Planned	4/10/2019	2	44	21.9
Planned	4/10/2019	1	20	19.6
Planned	4/10/2019	1	24	23.7
Planned	4/10/2019	3	116	38.6
Planned	4/10/2019	1	36	35.8
Planned	4/10/2019	26	798	30.7
Planned	4/10/2019	1	48	47.6
Planned	4/10/2019	1	56	56.3
Planned	4/10/2019	2	130	65.1
Planned	4/10/2019	1	10	9.5
Planned	4/10/2019	3	197	65.8
Planned	4/10/2019	10	158	15.8
Planned	4/10/2019	10	160	16.0
Planned	4/10/2019	7	114	16.2
Planned	4/10/2019	12	197	16.4
Planned	4/10/2019	4	108	27.0
Planned	4/10/2019	3	61	20.5
Planned	4/10/2019	3	44	14.6
Planned	4/10/2019	1	51	50.7
Planned	4/10/2019	1	15	14.7
Planned	4/10/2019	1	64	64.3
Planned	4/10/2019	2	330	164.8
Planned	4/10/2019	1	126	126.2
Planned	4/10/2019	1	26	26.5
Customer Request	4/10/2019	1	271	270.8
Customer Request	4/10/2019	3	40	13.5
Customer Request	4/10/2019	2	42	21.0
Planned	4/11/2019	2	50	25.2
Planned	4/11/2019	1	134	133.9
Planned	4/11/2019	27	999	37.0
Planned	4/11/2019	4	71	17.9
Planned	4/11/2019	1	96	95.9
Planned	4/11/2019	1	59	59.0
Planned	4/11/2019	1	247	247.1
Planned	4/11/2019	6	746	124.4
Planned	4/11/2019	1	382	382.4

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	4/11/2019	2	74	36.8
Planned	4/11/2019	1	187	186.9
Planned	4/11/2019	5	1,036	207.1
Planned	4/11/2019	2	92	45.8
Planned	4/11/2019	1	156	156.2
Planned	4/11/2019	3	921	307.1
Planned	4/11/2019	2	52	26.2
Planned	4/11/2019	3	74	24.7
Planned	4/11/2019	1	29	28.8
Planned	4/11/2019	1	61	61.0
Planned	4/11/2019	4	279	69.8
Planned	4/11/2019	1	7	7.2
Planned	4/11/2019	1	22	22.1
Planned	4/11/2019	1	10	9.5
Customer Request	4/11/2019	8	79	9.8
Customer Request	4/11/2019	1	56	56.0
Planned	4/12/2019	5	216	43.2
Planned	4/12/2019	11	1,557	141.5
Planned	4/12/2019	2	37	18.6
Planned	4/12/2019	1	169	169.0
Planned	4/12/2019	5	654	130.7
Planned	4/12/2019	3	115	38.2
Planned	4/12/2019	1	53	53.2
Planned	4/12/2019	3	70	23.5
Planned	4/12/2019	1	64	63.9
Planned	4/12/2019	1	42	42.5
Planned	4/12/2019	5	146	29.3
Planned	4/12/2019	4	68	17.0
Planned	4/12/2019	4	279	69.7
Planned	4/12/2019	1	13	12.6
Planned	4/12/2019	3	41	13.6
Planned	4/12/2019	1	31	31.5
Planned	4/12/2019	1	40	40.2
Planned	4/12/2019	4	170	42.5
Planned	4/12/2019	5	89	17.8
Planned	4/12/2019	2	42	20.8
Planned	4/12/2019	1	20	20.4
Planned	4/13/2019	1	32	31.6
Planned	4/14/2019	5	37	7.3
Planned	4/14/2019	2	672	336.0
Planned	4/14/2019	1	210	210.0
Planned	4/14/2019	7	185	26.4
Planned	4/14/2019	3	67	22.3
Planned	4/14/2019	6	109	18.2
Planned	4/14/2019	2	128	64.2
Customer Request	4/14/2019	0	0	276.1
Customer Request	4/14/2019	0	0	134.7
Customer Request	4/14/2019	0	0	179.7

Q13 – I	Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar	
Planned	4/15/2019	3	59	19.7	
Planned	4/15/2019	1	123	123.0	
Planned	4/15/2019	2	82	41.0	
Planned	4/15/2019	8	1,023	127.9	
Planned	4/15/2019	3	1,130	376.8	
Planned	4/15/2019	1	22	22.2	
Planned	4/15/2019	1	80	80.3	
Planned	4/15/2019	3	366	121.9	
Planned	4/15/2019	3	458	152.6	
Planned	4/15/2019	3	158	52.5	
Planned	4/15/2019	1	177	177.0	
Planned	4/15/2019	6	2,203	367.2	
Planned	4/15/2019	7	855	122.1	
Planned	4/15/2019	1	27	27.0	
Planned	4/15/2019	11	2,936	266.9	
Planned	4/15/2019	4	180	45.1	
Planned	4/15/2019	1	111	111.2	
Planned	4/15/2019	2	90	44.8	
Planned	4/15/2019	1	34	34.2	
Planned	4/15/2019	2	458	229.2	
Planned	4/15/2019	4	187	46.8	
Planned	4/15/2019	3	133	44.4	
Planned	4/15/2019	1	125	125.3	
Planned	4/15/2019	4	223	55.8	
Planned	4/15/2019	1	41	40.8	
Planned	4/15/2019	1	158	157.5	
Planned	4/16/2019	6	181	30.2	
Planned	4/16/2019	41	14,414	351.6	
Planned	4/16/2019	1	235	234.5	
Planned	4/16/2019	2	835	417.6	
Planned	4/16/2019	7	236	33.8	
Planned	4/16/2019	2	303	151.3	
Planned	4/16/2019	1	106	105.9	
Planned	4/16/2019	3	425	141.8	
Planned	4/16/2019	3	203	67.7	
Planned	4/16/2019	1	56	55.7	
Planned	4/16/2019	1	87	86.8	
Planned	4/16/2019	1	43	43.5	
Planned	4/16/2019	4	121	30.2	
Planned	4/16/2019	2	96	47.8	
Planned	4/16/2019	1	207	206.8	
Planned	4/16/2019	4	104	26.0	
Planned	4/16/2019	7	839	119.8	
Planned	4/16/2019	10	1,210	121.0	
Planned	4/16/2019	10	236	235.8	
Planned	4/16/2019	1	37	37.4	
Planned	4/16/2019	7	1,510	215.7	
Planned			1		
Pianned	4/16/2019	1	283	282.6	

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	4/16/2019	4	157	39.2
Planned	4/16/2019	2	370	185.0
Planned	4/16/2019	10	540	54.0
Planned	4/16/2019	2	140	69.9
Planned	4/16/2019	1	172	172.2
Planned	4/16/2019	1	165	165.1
Planned	4/16/2019	1	142	142.2
Planned	4/16/2019	1	135	135.5
Planned	4/16/2019	1	83	82.9
Planned	4/16/2019	4	118	29.5
Planned	4/16/2019	1	117	116.6
Planned	4/16/2019	1	50	50.2
Planned	4/16/2019	1	70	70.3
Planned	4/16/2019	4	270	67.5
Planned	4/16/2019	1	21	20.9
Planned	4/16/2019	1	8	7.9
Planned	4/16/2019	1	42	42.1
Planned	4/16/2019	2	35	17.6
Planned	4/16/2019	1	16	16.4
Planned	4/16/2019	1	29	28.9
Planned	4/16/2019	1	28	28.0
Planned	4/16/2019	1	25	25.0
Planned	4/16/2019	1	41	40.8
Planned	4/16/2019	3	190	63.4
Planned	4/16/2019	4	123	30.7
Planned	4/16/2019	2	92	46.0
Planned	4/16/2019	3	192	64.1
Planned	4/16/2019	1	56	55.8
Planned	4/16/2019	1	50	49.9
Planned	4/16/2019	12	319	26.6
Planned	4/16/2019	26	188	7.2
Customer Request	4/16/2019	11	3,711	337.4
Planned	4/17/2019	1	316	315.6
Planned	4/17/2019	9	1,690	187.8
Planned	4/17/2019	2	34	16.8
Planned	4/17/2019	16	2,471	154.4
Planned	4/17/2019	5	709	141.7
Planned	4/17/2019	1	221	221.0
Planned	4/17/2019	6	59	9.8
Planned	4/17/2019	27	2,834	105.0
Planned	4/17/2019	1	30	29.9
Planned	4/17/2019	4	935	233.8
Planned	4/17/2019	10	170	17.0
Planned	4/17/2019	3	315	104.9
Planned	4/17/2019	1	66	66.4
Planned	4/17/2019	13	496	38.2
Planned	4/17/2019	2	658	329.2
Planned	4/17/2019	6	257	42.8

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	4/17/2019	1	13	12.5
Planned	4/17/2019	6	404	67.3
Planned	4/17/2019	7	423	60.4
Planned	4/17/2019	3	155	51.7
Planned	4/17/2019	5	392	78.3
Planned	4/17/2019	1	161	161.0
Planned	4/17/2019	2	317	158.7
Planned	4/17/2019	1	93	92.8
Planned	4/17/2019	1	24	23.7
Planned	4/17/2019	1	215	215.3
Planned	4/17/2019	9	1,070	118.8
Planned	4/17/2019	1	95	95.1
Planned	4/18/2019	51	7,585	148.7
Planned	4/18/2019	1	146	146.2
Planned	4/18/2019	45	214	4.8
Planned	4/18/2019	4	284	71.0
Planned	4/18/2019	1	425	425.2
Planned	4/18/2019	5	791	158.3
Planned	4/18/2019	7	504	72.0
Planned	4/18/2019	7	1,018	145.5
Planned	4/18/2019	6	755	125.8
Planned	4/18/2019	4	768	192.0
Planned	4/18/2019	1	26	25.8
Planned	4/18/2019	2	104	52.1
Planned	4/18/2019	1	52	52.0
Planned	4/18/2019	1	52	52.0
Planned	4/18/2019	1	280	280.1
Planned	4/18/2019	7	774	110.6
Planned	4/18/2019	3	36	12.0
Planned	4/18/2019	4	302	75.6
Planned	4/18/2019	1	143	142.6
Planned	4/18/2019	8	709	88.7
Planned	4/18/2019	1	93	93.3
Planned	4/18/2019	1	287	287.3
Planned	4/18/2019	3	219	73.1
Planned	4/18/2019	2	118	59.0
Planned	4/18/2019	1	7	7.2
Planned	4/18/2019	2	78	39.2
Planned	4/18/2019	4	110	27.6
Planned	4/18/2019	4	183	45.8
Planned	4/18/2019	1	43	43.2
Planned	4/18/2019	4	63	15.7
Planned	4/18/2019	3	217	72.3
Customer Request	4/18/2019	1	109	109.0
Planned	4/19/2019	4	72	18.1
Planned	4/19/2019	3	60	20.0
Planned	4/19/2019	18	1,368	76.0
Planned	4/19/2019	5	154	30.8

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	4/19/2019	2	404	201.9
Planned	4/19/2019	2	99	49.5
Planned	4/19/2019	1	62	61.6
Planned	4/19/2019	8	797	99.6
Planned	4/19/2019	2	31	15.7
Customer Request	4/19/2019	4	317	79.3
Customer Request	4/19/2019	0	0	87.0
Planned	4/20/2019	3	233	77.6
Planned	4/20/2019	7	196	28.0
Customer Request	4/20/2019	1	77	77.0
Planned	4/22/2019	12	117	9.8
Planned	4/22/2019	2	836	418.2
Planned	4/22/2019	1	102	101.6
Planned	4/22/2019	5	1,533	306.6
Planned	4/22/2019	4	536	134.0
Planned	4/22/2019	1	388	387.7
Planned	4/22/2019	7	154	22.0
Planned	4/22/2019	10	220	22.0
Planned	4/22/2019	1	372	371.7
Planned	4/22/2019	4	148	37.0
Planned	4/22/2019	1	290	289.8
Planned	4/22/2019	1	34	34.4
Planned	4/22/2019	1	63	63.4
Planned	4/22/2019	4	969	242.3
Planned	4/22/2019	2	56	27.8
Planned	4/22/2019	4	20	5.0
Planned	4/22/2019	1	11	11.0
Planned	4/22/2019	1	77	77.0
Planned	4/22/2019	2	333	166.7
Planned	4/22/2019	1	168	168.5
Planned	4/22/2019	1	163	163.2
Planned	4/22/2019	6	1,655	275.8
Planned	4/22/2019	1	27	27.0
Planned	4/22/2019	5	1,263	252.7
Planned	4/22/2019	1	33	33.2
Planned	4/22/2019	1	42	42.1
Planned	4/22/2019	2	126	62.8
Planned	4/22/2019	3	120	4.0
Planned	4/22/2019	2	307	153.3
Planned	4/22/2019	1	119	119.1
Planned	4/22/2019	2	272	136.2
Planned	4/22/2019	2	59	29.3
Planned	4/22/2019	1	62	61.9
Planned	4/22/2019	1	48	48.3
Planned	4/22/2019	1	30	30.2
Planned	4/22/2019	1	22	21.7
	4/22/2019		40	
Planned		2		20.0
Planned	4/22/2019	4	245	61.4

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	4/22/2019	1	172	172.0
Planned	4/22/2019	3	36	12.1
Planned	4/22/2019	1	104	104.0
Customer Request	4/22/2019	1	213	213.0
Customer Request	4/22/2019	0	0	62.8
Customer Request	4/22/2019	1	65	65.1
Planned	4/23/2019	1	112	111.9
Planned	4/23/2019	9	620	68.8
Planned	4/23/2019	4	75	18.7
Planned	4/23/2019	1	45	45.0
Planned	4/23/2019	1	67	67.1
Planned	4/23/2019	2	84	42.0
Planned	4/23/2019	7	763	109.0
Planned	4/23/2019	4	412	103.0
Planned	4/23/2019	1	522	522.3
Planned	4/23/2019	1	97	97.0
Planned	4/23/2019	1	81	81.3
Planned	4/23/2019	2	188	93.8
Planned	4/23/2019	5	505	100.9
Planned	4/23/2019	3	501	167.0
Planned	4/23/2019	5	75	15.0
Planned	4/23/2019	1	42	41.6
Planned	4/23/2019	2	196	97.9
Planned	4/23/2019	11	1,047	95.2
Planned	4/23/2019	4	391	97.8
Planned	4/23/2019	5	155	31.0
Planned	4/23/2019	1	47	46.9
Planned	4/23/2019	7	287	41.0
Planned	4/23/2019	2	128	64.0
Planned	4/23/2019	2	27	13.6
Planned	4/23/2019	1	28	27.6
Planned	4/23/2019	1	50	50.4
Planned	4/23/2019	2	691	345.7
Planned	4/23/2019	1	51	51.2
Planned	4/23/2019	5	119	23.9
Planned	4/23/2019	13	845	65.0
Planned	4/23/2019	1	26	25.5
Planned	4/23/2019	1	23	23.2
Planned	4/23/2019	1	291	290.9
Planned	4/23/2019	2	70	35.2
Planned	4/23/2019	1	62	62.0
Planned	4/23/2019	4	613	153.4
Planned	4/23/2019	7	1,505	214.9
		1	33	
Planned	4/23/2019	6	240	33.5
Planned	4/23/2019	4		40.0
Planned Customer Request	4/23/2019		1,268	317.0
Customer Request	4/23/2019	0	0	582.4
Customer Request	4/23/2019	0	0	17.9

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Customer Request	4/23/2019	1	12	11.5
Planned	4/24/2019	10	583	58.3
Planned	4/24/2019	1	16	15.8
Planned	4/24/2019	1	7	6.8
Planned	4/24/2019	1	45	44.5
Planned	4/24/2019	2	45	22.5
Planned	4/24/2019	8	631	78.9
Planned	4/24/2019	3	238	79.4
Planned	4/24/2019	43	5,504	128.0
Planned	4/24/2019	5	90	18.0
Planned	4/24/2019	4	1,113	278.2
Planned	4/24/2019	6	90	15.0
Planned	4/24/2019	1	28	28.2
Planned	4/24/2019	6	860	143.4
Planned	4/24/2019	1	45	45.0
Planned	4/24/2019	1	111	111.1
Planned	4/24/2019	7	322	46.0
Planned	4/24/2019	3	45	15.0
Planned	4/24/2019	3	45	15.0
Planned	4/24/2019	4	60	15.0
Planned	4/24/2019	3	271	90.2
Planned	4/24/2019	1	89	88.6
Planned	4/24/2019	3	26	8.6
Planned	4/24/2019	3	354	118.0
Planned	4/24/2019	1	97	97.3
Planned	4/24/2019	3	396	132.1
Planned	4/24/2019	2	32	16.0
Planned	4/24/2019	13	2,355	181.2
Planned	4/24/2019	5	949	189.7
Planned	4/24/2019	2	83	41.6
Planned	4/24/2019	11	534	48.5
Planned	4/24/2019	4	342	85.5
Planned	4/24/2019	1	11	11.5
	4/24/2019	7	404	-
Planned Planned	1	1	21	57.7 20.7
	4/24/2019	1		+
Planned	4/24/2019		106	105.7
Planned	4/24/2019	1	185	185.2
Customer Request	4/24/2019	1	42	42.0
Customer Request	4/24/2019	1	24	24.0
Customer Request	4/24/2019	1	21	20.6
Customer Request	4/24/2019	1.0	41	41.0
Planned	4/25/2019	16	170	10.6
Planned	4/25/2019	1	34	34.1
Planned	4/25/2019	1	43	43.2
Planned	4/25/2019	1	95	95.4
Planned	4/25/2019	3	278	92.5
Planned	4/25/2019	3	127	42.4
Planned	4/25/2019	28	16,394	585.5

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	4/25/2019	7	921	131.6
Planned	4/25/2019	1	29	29.2
Planned	4/25/2019	2	360	180.0
Planned	4/25/2019	3	1,726	575.3
Planned	4/25/2019	6	1,080	180.0
Planned	4/25/2019	1	180	179.9
Planned	4/25/2019	6	259	43.2
Planned	4/25/2019	4	74	18.5
Planned	4/25/2019	44	13,686	311.1
Planned	4/25/2019	1	33	33.4
Planned	4/25/2019	1	49	49.4
Planned	4/25/2019	22	3,080	140.0
Planned	4/25/2019	1	51	51.0
Planned	4/25/2019	2	66	32.8
Planned	4/25/2019	1	16	16.0
Planned	4/25/2019	1	8	8.2
Planned	4/25/2019	4	245	61.2
Planned	4/25/2019	28	2,341	83.6
Planned	4/25/2019	3	251	83.7
Planned	4/25/2019	1	111	110.6
		11		
Customer Request	4/25/2019		385	35.0
Planned	4/26/2019	3	147	48.9
Planned	4/26/2019	1	332	331.9
Planned	4/26/2019	1	40	39.5
Planned	4/26/2019	3	210	70.0
Planned	4/26/2019	1	109	108.7
Planned	4/26/2019	2	217	108.3
Planned	4/26/2019	1	31	31.5
Planned	4/26/2019	1	23	22.8
Planned	4/26/2019	1	47	46.9
Planned	4/26/2019	1	58	57.8
Planned	4/26/2019	4	596	149.0
Planned	4/26/2019	4	775	193.7
Planned	4/26/2019	3	41	13.8
Planned	4/27/2019	5	1,643	328.6
Planned	4/27/2019	4	337	84.3
Planned	4/27/2019	2	58	28.9
Planned	4/27/2019	5	136	27.3
Planned	4/28/2019	10	1,237	123.7
Planned	4/28/2019	4	472	117.9
Planned	4/28/2019	1	15	14.7
Customer Request	4/28/2019	1	60	60.1
Planned	4/29/2019	1	18	17.5
Planned	4/29/2019	2	104	51.8
Planned	4/29/2019	12	1,620	135.0
Planned	4/29/2019	1	15	15.2
Planned	4/29/2019	2	429	214.6
Planned	4/29/2019	1	78	78.3

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	4/29/2019	1	30	30.4
Planned	4/29/2019	4	48	12.1
Planned	4/29/2019	5	882	176.3
Planned	4/29/2019	6	381	63.5
Planned	4/29/2019	7	905	129.3
Planned	4/29/2019	1	38	37.5
Planned	4/29/2019	4	119	29.8
Planned	4/29/2019	1	36	36.4
Planned	4/29/2019	1	113	113.0
Planned	4/29/2019	7	1,186	169.5
Planned	4/29/2019	2	114	57.1
Planned	4/29/2019	9	998	110.9
Planned	4/29/2019	3	313	104.2
Planned	4/29/2019	2	458	228.8
Planned	4/29/2019	1	229	228.6
Planned	4/29/2019	1	26	25.7
Planned	4/29/2019	1	140	140.2
Planned	4/29/2019	11	619	56.3
Planned	4/29/2019	1	87	87.0
Planned	4/29/2019	1	23	22.8
Planned	4/29/2019	3	158	52.5
Planned	4/29/2019	7	278	39.7
Planned	4/29/2019	1	33	33.4
Planned	4/29/2019	1	40	39.9
Planned	4/29/2019	1	36	36.1
Planned	4/29/2019	4	132	33.0
Planned	4/29/2019	25	1,475	59.0
Planned	4/29/2019	5	182	36.3
Planned	4/29/2019	2	24	12.1
Planned	4/29/2019	1	58	58.3
Customer Request	4/29/2019	0	0	35.9
Customer Request	4/29/2019	1	74	74.0
Customer Request	4/29/2019	0	0	189.2
Customer Request	4/29/2019	0	0	113.1
Customer Request	4/29/2019	1	29	29.0
Customer Request	4/29/2019	1	46	46.0
Customer Request	4/29/2019	3	984	328.1
Planned	4/30/2019	6	1,526	254.4
Planned	4/30/2019	1	199	199.4
Planned	4/30/2019	1	31	30.6
Planned	4/30/2019	2	79	39.7
Planned	4/30/2019	1	190	190.0
Planned	4/30/2019	1	158	158.2
Planned	4/30/2019	1	28	27.6
Planned	4/30/2019	4	117	29.1
Planned	4/30/2019	3	1,220	406.7
Planned	4/30/2019	7	887	126.7
Planned	4/30/2019	1	58	58.0

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	4/30/2019	7	1,021	145.9
Planned	4/30/2019	72	1,934	26.9
Planned	4/30/2019	30	7,632	254.4
Planned	4/30/2019	9	749	83.2
Planned	4/30/2019	1	425	425.4
Planned	4/30/2019	1	21	21.1
Planned	4/30/2019	1	93	93.5
Planned	4/30/2019	1	304	303.8
Planned	4/30/2019	1	62	62.0
Planned	4/30/2019	5	325	65.0
Planned	4/30/2019	7	663	94.7
Planned	4/30/2019	1	50	49.6
Planned	4/30/2019	1	99	98.6
Customer Request	4/30/2019	1	183	182.6
Customer Request	4/30/2019	1	90	90.0
Customer Request	4/30/2019	1	47	46.6
Customer Request	4/30/2019	1	21	21.0
Customer Request	4/30/2019	1	93	93.0
Planned	5/1/2019	2	48	23.8
Planned	5/1/2019	19	1,140	60.0
Planned	5/1/2019	1	13	12.7
Planned	5/1/2019	1	37	37.4
Planned	5/1/2019	1	18	17.6
Planned	5/1/2019	13	2,407	185.1
Planned	5/1/2019	7	1,284	183.4
Planned	5/1/2019	1	215	215.1
Planned	5/1/2019	7	380	54.3
Planned	5/1/2019	1	21	20.8
Planned	5/1/2019	2	158	79.1
Planned	5/1/2019	6		200.7
Planned	5/1/2019	1	1,204 133	
Planned	5/1/2019	3	147	132.9 49.1
		5	604	120.9
Planned	5/1/2019		+	
Planned	5/1/2019	1	76	75.9
Planned	5/1/2019	3	81	26.8
Planned	5/1/2019	8	185	23.2
Planned	5/1/2019	4	128	31.9
Planned	5/1/2019	1	133	133.3
Planned	5/1/2019	2	199	99.5
Planned	5/1/2019	3	54	17.9
Planned	5/1/2019	3	267	88.9
Planned	5/1/2019	1	190	190.3
Planned	5/1/2019	3	537	179.0
Planned	5/1/2019	1	30	30.3
Planned	5/1/2019	1	369	368.7
Planned	5/2/2019	3	83	27.8
Planned	5/2/2019	1	46	46.1
Planned	5/2/2019	1	101	101.1

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	5/2/2019	1	29	29.4
Planned	5/2/2019	2	242	120.9
Planned	5/2/2019	1	102	101.7
Planned	5/2/2019	3	302	100.6
Planned	5/2/2019	1	38	38.4
Planned	5/2/2019	6	114	19.0
Planned	5/2/2019	3	354	118.0
Planned	5/2/2019	26	1,037	39.9
Planned	5/2/2019	1	78	77.9
Planned	5/2/2019	4	548	137.1
Planned	5/2/2019	7	470	67.1
Planned	5/2/2019	1	17	16.8
Planned	5/2/2019	5	420	84.0
Planned	5/2/2019	1	28	27.9
Planned	5/2/2019	43	1,419	33.0
Planned	5/2/2019	1	50	49.7
Planned	5/2/2019	1	9	9.0
Planned	5/2/2019	4	131	32.7
Planned	5/2/2019	1	31	30.8
Planned	5/2/2019	1	29	29.3
Planned	5/2/2019	44	880	20.0
Planned	5/2/2019	1	14	14.3
Planned	5/2/2019	5	649	129.8
Planned	5/2/2019	1	17	17.5
Customer Request	5/2/2019	1	46	45.7
Customer Request	5/2/2019	1	96	96.0
Planned	5/3/2019	1	9	9.0
Planned	5/3/2019	1	97	96.7
Planned	5/3/2019	1	41	41.2
Planned	5/3/2019	1	31	31.2
Planned	5/3/2019	1	70	69.6
Planned	5/3/2019	1	24	23.8
Planned	5/3/2019	18	940	52.2
Planned	5/3/2019	6	169	28.2
Planned	5/3/2019	1	8	8.4
Planned	5/3/2019	2	34	17.0
Planned	5/3/2019	1	20	19.7
Planned	5/3/2019	2	157	78.4
Planned	5/3/2019	56	5,039	90.0
Planned	5/3/2019	2	26	13.0
Planned	5/3/2019	16	449	28.1
Planned	5/3/2019	1	6	6.4
Planned	5/3/2019	1	34	34.3
Planned	5/3/2019	39	366	9.4
Planned	5/3/2019	1	56	55.8
Planned	5/3/2019	1	30	30.1
Planned	5/3/2019	1	7	7.0
Planned	5/3/2019	1	17	17.0

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	5/3/2019	3	55	18.4
Customer Request	5/3/2019	0	0	213.0
Planned	5/4/2019	2	74	37.2
Planned	5/4/2019	1	34	33.9
Planned	5/4/2019	4	24	6.0
Planned	5/4/2019	2	187	93.5
Planned	5/4/2019	1	29	28.7
Planned	5/4/2019	4	156	39.1
Planned	5/4/2019	694	6,153	8.9
Planned	5/4/2019	1	80	80.4
Customer Request	5/4/2019	1	106	106.0
Planned	5/5/2019	1	11	11.3
Customer Request	5/5/2019	1	72	72.4
Customer Request	5/5/2019	1	77	77.0
Planned	5/6/2019	7	375	53.5
Planned	5/6/2019	8	690	86.3
Planned	5/6/2019	1	56	56.3
Planned	5/6/2019	3	40	13.2
Planned	5/6/2019	6	139	23.1
Planned	5/6/2019	2	78	39.1
Planned	5/6/2019	1	178	177.7
Planned	5/6/2019	3	516	172.1
Planned	5/6/2019	1	540	539.8
Planned	5/6/2019	3	160	53.2
Planned	5/6/2019	7	1,151	164.5
Planned	5/6/2019	2	268	134.1
Planned	5/6/2019	2	107	53.5
Planned	5/6/2019	1	45	44.6
Planned	5/6/2019	4	340	85.0
Planned	5/6/2019	1	27	27.4
Planned	5/6/2019	6	356	59.3
Planned	5/6/2019	3	265	88.2
Planned	5/6/2019	2	227	113.4
Planned	5/6/2019	8	771	96.4
Planned	5/6/2019	2	43	21.6
Planned	5/6/2019	3	171	57.0
Planned	5/6/2019	3	146	48.6
Planned	5/6/2019	8	332	41.5
Planned	5/6/2019	1	31	31.3
Planned	5/6/2019	1	26	26.4
Planned	5/6/2019	4	112	27.9
Planned	5/6/2019	2	343	171.3
Planned	5/6/2019	1	11	171.5
	5/6/2019	4	210	52.6
Planned		4		
Planned	5/6/2019	1	423	105.9
Planned	5/6/2019		228	227.6
Planned	5/6/2019	1	137	136.9
Planned	5/6/2019	6	76	12.7

Q13 – Di	Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar	
Planned	5/6/2019	3	43	14.4	
Planned	5/6/2019	1	53	52.6	
Planned	5/6/2019	1	56	55.6	
Planned	5/6/2019	2	226	112.8	
Planned	5/7/2019	1	19	19.2	
Planned	5/7/2019	3	306	102.1	
Planned	5/7/2019	3	221	73.7	
Planned	5/7/2019	1	13	13.0	
Planned	5/7/2019	2	56	27.9	
Planned	5/7/2019	1	52	51.8	
Planned	5/7/2019	4	144	36.0	
Planned	5/7/2019	18	658	36.5	
Planned	5/7/2019	4	531	132.7	
Planned	5/7/2019	3	324	108.0	
Planned	5/7/2019	3	34	11.4	
Planned	5/7/2019	3	274	91.4	
Planned	5/7/2019	6	754	125.7	
Planned	5/7/2019	2	248	124.0	
Planned	5/7/2019	2	89	44.4	
Planned	5/7/2019	1	115	114.7	
Planned	5/7/2019	4	164	41.0	
Planned	5/7/2019	1	36	36.0	
Planned	5/7/2019	2	124	62.2	
Planned	5/7/2019	5	66	13.3	
Planned	5/7/2019	1	133	133.0	
Planned	5/7/2019	3	107	35.8	
Planned	5/7/2019	1	19	18.7	
Planned	5/7/2019	1	55	55.3	
Planned	5/7/2019	1	103	102.8	
Planned	5/7/2019	1	150	150.3	
Planned	5/7/2019	1	12	11.6	
Planned	5/7/2019	2	196	98.0	
Planned	5/7/2019	40	531	13.3	
Planned	5/7/2019	4	311	77.9	
Planned	5/7/2019	1	55	54.7	
Planned	5/7/2019	1	52	51.5	
Planned	5/7/2019	4	168	42.1	
Customer Request	5/7/2019	1	43	43.0	
Planned	5/8/2019	3	865	288.3	
Planned	5/8/2019	4	76	19.0	
Planned	5/8/2019	1	145	145.0	
Planned	5/8/2019	2	42	21.2	
Planned	5/8/2019	1	233	233.0	
Planned	5/8/2019	1	48	47.5	
Planned	5/8/2019	1	245	245.1	
Planned	5/8/2019	1	87	87.2	
Planned	5/8/2019	12	148	12.4	
Planned	5/8/2019	24	734	30.6	

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	5/8/2019	1	122	122.0
Planned	5/8/2019	2	394	196.9
Planned	5/8/2019	2	196	98.1
Planned	5/8/2019	2	182	91.0
Planned	5/8/2019	1	177	176.9
Planned	5/8/2019	2	80	40.1
Planned	5/8/2019	2	280	140.2
Planned	5/8/2019	2	257	128.5
Planned	5/8/2019	3	306	102.0
Planned	5/8/2019	5	279	55.8
Planned	5/8/2019	5	558	111.7
Planned	5/8/2019	4	131	32.7
Planned	5/8/2019	1	83	82.9
Planned	5/8/2019	2	246	123.1
Planned	5/8/2019	2	204	102.0
Planned	5/8/2019	1	103	103.4
Planned	5/8/2019	2	172	86.0
Planned	5/8/2019	1	14	14.4
Planned	5/8/2019	6	770	128.3
Planned	5/8/2019	1	64	63.9
Planned	5/8/2019	4	284	71.0
Planned	5/8/2019	4	406	101.5
Planned	5/9/2019	2	150	74.8
Planned	5/9/2019	1	17	17.1
Planned		1	22	22.3
Planned	5/9/2019	1	30	
	5/9/2019			29.8
Planned	5/9/2019	2	169	84.4
Planned	5/9/2019	1	103	102.6
Planned	5/9/2019	4	349	87.2
Planned	5/9/2019	2	79	39.5
Planned	5/9/2019	1	50	49.9
Planned	5/9/2019	2	48	23.8
Planned	5/9/2019	1	45	44.9
Planned	5/9/2019	2	57	28.7
Planned	5/9/2019	1	21	21.3
Planned	5/9/2019	2	38	19.0
Planned	5/9/2019	1	56	56.2
Planned	5/9/2019	9	461	51.3
Planned	5/9/2019	2	249	124.3
Planned	5/9/2019	3	444	148.2
Planned	5/9/2019	3	90	29.9
Planned	5/9/2019	1	80	80.4
Planned	5/9/2019	1	112	111.8
Planned	5/9/2019	1	15	15.3
Planned	5/9/2019	4	211	52.7
Planned	5/10/2019	2	79	39.5
Planned	5/10/2019	1	137	137.0
Planned	5/10/2019	1	24	23.8

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	5/10/2019	1	114	113.8
Planned	5/10/2019	1	22	21.9
Planned	5/10/2019	3	256	85.4
Planned	5/10/2019	1	19	19.3
Planned	5/10/2019	2	40	20.2
Planned	5/10/2019	1	97	97.5
Planned	5/10/2019	1	102	102.4
Planned	5/10/2019	2	32	16.0
Planned	5/10/2019	1	61	61.5
Planned	5/10/2019	1	68	68.1
Planned	5/10/2019	1	39	38.7
Planned	5/10/2019	7	401	57.2
Planned	5/10/2019	2	30	15.0
Planned	5/10/2019	1	31	30.8
Planned	5/10/2019	3	61	20.4
Customer Request	5/10/2019	1	220	220.0
Planned	5/11/2019	1	164	164.2
Planned	5/11/2019	1	58	58.2
Planned	5/11/2019	2	87	43.5
Planned	5/11/2019	2	47	23.3
Planned	5/11/2019	1	19	19.2
Planned	5/11/2019	13	995	76.5
Planned	5/11/2019	1	90	89.9
Customer Request	5/11/2019	0	0	82.0
Customer Request	5/11/2019	1	14	14.0
Planned	5/12/2019	3	90	30.0
Planned	5/12/2019	4	47	11.9
Planned	5/12/2019	1	14	14.1
Planned	5/12/2019	1	8	7.8
Planned	5/12/2019	10	325	32.5
Planned	5/12/2019	1	57	57.0
Customer Request	5/12/2019	1	69	69.0
Customer Request	5/12/2019	0	0	115.3
Customer Request	5/12/2019	1	29	29.0
Customer Request	5/12/2019	1	40	40.0
Customer Request	5/12/2019	1	39	39.0
Customer Request	5/12/2019	1	29	29.0
Planned	5/13/2019	5	102	20.5
Planned	5/13/2019	2	177	88.7
Planned	5/13/2019	3	512	170.8
Planned	5/13/2019	2	110	55.0
Planned	5/13/2019	2	84	42.1
Planned	5/13/2019	8	706	88.3
Planned	5/13/2019	3	86	28.6
Planned	5/13/2019	3	190	63.5
Planned	5/13/2019	1	64	63.7
Planned	5/13/2019	1	97	96.9
Planned	5/13/2019	3	145	48.5

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	5/13/2019	4	80	20.0
Planned	5/13/2019	3	73	24.4
Planned	5/13/2019	2	49	24.7
Planned	5/13/2019	6	106	17.7
Planned	5/13/2019	1	37	36.8
Planned	5/13/2019	2	37	18.4
Planned	5/13/2019	16	423	26.4
Planned	5/13/2019	4	128	32.0
Planned	5/13/2019	4	195	48.8
Planned	5/13/2019	1	92	91.9
Planned	5/13/2019	1	27	26.7
Planned	5/13/2019	2	22	11.0
Planned	5/13/2019	2	75	37.5
Planned	5/13/2019	3	56	18.5
Planned	5/13/2019	1	127	127.2
Planned	5/13/2019	4	495	123.7
Planned	5/13/2019	3	376	125.3
Planned	5/13/2019	1	142	141.9
Planned	5/13/2019	1	58	57.7
Planned	5/13/2019	3	188	62.7
Planned	5/13/2019	6	68	11.4
Customer Request	5/13/2019	1	19	19.0
Planned	5/14/2019	6	486	81.0
Planned	5/14/2019	4	82	20.6
Planned	5/14/2019	2	85	42.6
Planned	5/14/2019	1	58	57.8
Planned	5/14/2019	1	19	18.7
Planned	5/14/2019	5	204	40.8
Planned	5/14/2019	4	279	69.9
Planned	5/14/2019	2	253	126.7
Planned	5/14/2019	1	20	20.4
Planned	5/14/2019	4	625	156.3
Planned	5/14/2019	1	79	79.5
Planned	5/14/2019	3	45	15.2
Planned	5/14/2019	1	14	13.6
Planned	5/14/2019	2	24	11.9
Planned	5/14/2019	1	160	160.0
Planned	5/14/2019	1	21	20.6
Planned	5/14/2019	3	364	121.4
Planned	5/14/2019	2	89	44.4
Planned	5/14/2019	1	100	99.6
Planned	5/14/2019	2	70	34.8
Planned	5/14/2019	1	44	44.2
Planned	5/14/2019	1	18	17.7
Planned	5/14/2019	1	29	29.4
Planned	5/14/2019	1	70	70.5
Planned	5/14/2019	4	123	30.8
Planned	5/14/2019	2	282	141.2

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	5/14/2019	4	109	27.3
Planned	5/14/2019	4	606	151.4
Planned	5/14/2019	1	18	18.2
Planned	5/14/2019	2	55	27.5
Planned	5/14/2019	1	23	22.7
Planned	5/14/2019	1	28	28.2
Planned	5/14/2019	1	108	107.8
Planned	5/14/2019	5	600	120.0
Planned	5/14/2019	1	8	8.4
Planned	5/14/2019	1	20	20.0
Customer Request	5/14/2019	0	0	31.0
Customer Request	5/14/2019	1	23	23.0
Planned	5/15/2019	3	85	28.3
Planned	5/15/2019	4	499	124.8
Planned	5/15/2019	1	26	26.3
Planned	5/15/2019	4	385	96.2
Planned	5/15/2019	2	191	95.6
Planned	5/15/2019	106	9,584	90.4
Planned	5/15/2019	5	274	54.8
Planned	5/15/2019	1	42	42.4
Planned	5/15/2019	2	147	73.5
Planned	5/15/2019	6	134	22.3
Planned	5/15/2019	6	257	42.9
Planned	5/15/2019	5	76	15.3
Planned	5/15/2019	5	98	19.6
Planned	5/15/2019	1	123	123.4
Planned	5/15/2019	4	113	28.3
Planned	5/15/2019	3	154	51.5
Planned	5/15/2019	1	104	104.2
Planned	5/15/2019	2	118	59.0
Planned	5/15/2019	1	29	28.9
Planned	5/15/2019	4	114	28.6
Planned	5/15/2019	1	42	42.3
Planned	5/15/2019	4	125	31.4
Planned	5/15/2019	2	169	84.5
Planned	5/15/2019	4	321	80.4
Planned	5/15/2019	1	26	25.5
Planned	5/15/2019	4	123	30.7
Planned	5/15/2019	3	66	21.9
Planned	5/16/2019	1	27	27.2
Planned	5/16/2019	1	26	26.2
Planned	5/16/2019	10	268	26.8
Planned	5/16/2019	19	684	36.0
Planned	5/16/2019	4	240	60.0
Planned	5/16/2019	1	23	22.7
Planned	5/16/2019	1	215	215.4
Planned	5/16/2019	32	928	29.0
Planned	5/16/2019	1	166	165.6

Q13 – Di	stribution Exc	luded Out	age Events	
Causation	Date	CI	CMI	L-Bar
Planned	5/16/2019	5	565	112.9
Planned	5/16/2019	1	35	34.9
Planned	5/16/2019	1	19	19.1
Planned	5/16/2019	4	64	16.1
Planned	5/16/2019	1	30	29.7
Planned	5/16/2019	2	50	25.1
Planned	5/16/2019	1	19	18.8
Planned	5/16/2019	1	55	54.9
Planned	5/16/2019	1	238	237.7
Customer Request	5/16/2019	1	248	248.2
Planned	5/17/2019	2	159	79.6
Planned	5/17/2019	1	13	13.4
Planned	5/17/2019	14	928	66.3
Planned	5/17/2019	1	105	105.2
Planned	5/17/2019	1	17	17.4
Planned	5/17/2019	1	42	41.8
Planned	5/17/2019	1	56	55.7
Planned	5/17/2019	1	17	17.1
Planned	5/17/2019	6	153	25.5
Planned	5/17/2019	2	107	53.7
Planned	5/17/2019	6	318	53.1
Planned	5/18/2019	4	111	27.9
Planned	5/18/2019	6	100	16.6
Planned	5/18/2019	1	37	37.0
Planned	5/18/2019	1	16	16.3
Planned	5/18/2019	7	599	85.6
Customer Request	5/18/2019	1	321	320.6
Customer Request	5/18/2019	1	94	94.0
Planned	5/19/2019	10	275	27.5
Planned	5/19/2019	6	228	38.0
Planned	5/19/2019	2	70	35.2
Customer Request	5/19/2019	1	567	567.0
Planned	5/20/2019	4	275	68.7
Planned	5/20/2019	7	295	42.2
Planned	5/20/2019	3	221	73.8
Planned	5/20/2019	2	254	126.9
	5/20/2019	2	253	
Planned				126.5
Planned	5/20/2019	39	2,061	52.9
Planned	5/20/2019	1	33	33.5
Planned	5/20/2019	101	2,836	28.1
Planned	5/20/2019	2	103	51.3
Planned	5/20/2019	6	122	20.4
Planned	5/20/2019	7	211	30.1
Planned	5/20/2019	1	20	19.6
Planned	5/20/2019	3	157	52.2
Planned	5/20/2019	4	749	187.3
Planned	5/20/2019	5	547	109.4
Planned	5/20/2019	4	462	115.5

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	5/20/2019	5	397	79.5
Planned	5/20/2019	3	17	5.5
Planned	5/20/2019	2	146	73.0
Planned	5/20/2019	1	34	33.6
Planned	5/20/2019	1	28	27.9
Planned	5/20/2019	1	25	24.6
Planned	5/20/2019	1	45	45.3
Planned	5/20/2019	1	21	21.2
Planned	5/20/2019	2	276	137.9
Planned	5/20/2019	1	288	287.8
Planned	5/20/2019	1	9	8.9
Planned	5/20/2019	1	21	20.8
Planned	5/20/2019	3	59	19.8
Planned	5/20/2019	1	32	31.6
Planned	5/20/2019	3	74	24.6
Planned	5/20/2019	1	26	26.3
Planned	5/20/2019	6	74	12.3
Planned	5/20/2019	1	14	13.6
Customer Request	5/20/2019	16	11,102	693.9
Planned	5/21/2019	1	106	106.1
Planned	5/21/2019	1	29	29.3
Planned	5/21/2019	1	139	138.8
Planned	5/21/2019	8	56	7.0
Planned	5/21/2019	7	249	35.5
Planned	5/21/2019	1	42	42.4
Planned	5/21/2019	5	98	19.7
Planned	5/21/2019	1	103	102.6
Planned	5/21/2019	3	247	82.4
Planned	5/21/2019	1	15	15.0
Planned	5/21/2019	1	27	27.2
Planned	5/21/2019	6	227	37.8
Planned	5/21/2019	5	189	37.8
Planned	5/21/2019	1	31	30.9
Planned	5/21/2019	3	142	47.2
Planned	5/21/2019	4	93	23.3
Planned	5/21/2019	24	1,556	64.9
Planned	5/21/2019	3	107	35.7
Planned	5/21/2019	5	191	38.2
Planned	5/21/2019	1	82	82.0
Planned	5/21/2019	4	237	59.2
Planned	5/21/2019	2	25	12.6
Planned	5/21/2019	1	25	24.9
Planned	5/21/2019	1	160	160.3
Planned	5/21/2019	9	203	22.5
Planned	5/21/2019	4	49	12.2
Planned	5/21/2019	2	149	74.6
Planned	5/21/2019	1	85	85.1
Planned	5/21/2019	2	57	28.6

Q13 – Di	stribution Exc	luded Out	age Events	
Causation	Date	CI	CMI	L-Bar
Customer Request	5/21/2019	1	38	38.0
Customer Request	5/21/2019	1	55	55.0
Planned	5/22/2019	1	131	131.3
Planned	5/22/2019	4	149	37.2
Planned	5/22/2019	3	56	18.6
Planned	5/22/2019	1	93	92.6
Planned	5/22/2019	1	57	57.0
Planned	5/22/2019	4	235	58.8
Planned	5/22/2019	2	135	67.7
Planned	5/22/2019	4	158	39.5
Planned	5/22/2019	1	37	36.6
Planned	5/22/2019	1	58	58.4
Planned	5/22/2019	33	3,285	99.5
Planned	5/22/2019	4	552	138.0
Planned	5/22/2019	1	30	30.0
Planned	5/22/2019	1	92	91.6
Planned	5/22/2019	4	354	88.4
Planned	5/22/2019	1	434	434.0
Planned	5/22/2019	54	5,402	100.0
Planned	5/22/2019	1	100	100.5
Planned	5/22/2019	1	99	98.8
Planned	5/22/2019	3	59	19.7
Planned	5/22/2019	5	158	31.6
Planned	5/22/2019	4	244	60.9
Planned	5/22/2019	3	152	50.6
Planned	5/22/2019	1	57	57.1
Planned	5/22/2019	1	50	50.2
Planned	5/22/2019	2	94	47.0
Planned	5/22/2019	10	932	93.2
Planned	5/22/2019	1	13	13.0
Planned	5/22/2019	3	86	28.7
Planned	5/22/2019	4	149	37.3
Planned	5/22/2019	3	54	18.1
Planned	5/22/2019	4	195	48.8
Planned	5/22/2019	1	35	34.6
Planned	5/22/2019	3	49	16.5
Planned	5/22/2019	1	8	7.7
Planned	5/22/2019	1	47	47.3
Planned	5/22/2019	2	213	106.4
		1	54	
Planned Customer Request	5/22/2019	1	42	53.7
•	5/22/2019	1		42.0
Planned	5/23/2019		20	19.8
Planned	5/23/2019	1	118	118.0
Planned	5/23/2019	3	351	117.0
Planned	5/23/2019	2	381	190.7
Planned	5/23/2019	1	66	66.0
Planned	5/23/2019	4	319	79.7
Planned	5/23/2019	1	6	5.8

Q13 – Distribution Excluded Outage Events					
Causation	Date	CI	CMI	L-Bar	
Planned	5/23/2019	2	243	121.4	
Planned	5/23/2019	2	194	97.0	
Planned	5/23/2019	1	7	6.8	
Planned	5/23/2019	3	157	52.3	
Planned	5/23/2019	137	1,831	13.4	
Planned	5/23/2019	2	100	49.8	
Planned	5/23/2019	1	32	32.1	
Planned	5/23/2019	1	41	40.7	
Planned	5/23/2019	1	6	5.7	
Planned	5/23/2019	1	25	25.3	
Planned	5/23/2019	1	6	6.3	
Planned	5/23/2019	1	21	20.8	
Planned	5/23/2019	1	7	6.6	
Planned	5/23/2019	1	62	61.8	
Planned	5/23/2019	8	273	34.1	
Planned	5/23/2019	1	39	39.3	
Customer Request	5/23/2019	0	0	171.7	
Customer Request	5/23/2019	3	1,168	389.2	
Planned	5/24/2019	1	14	14.3	
Planned	5/24/2019	1	49	49.0	
Planned	5/24/2019	3	496	165.2	
Planned	5/24/2019	5	51	10.2	
Planned	5/24/2019	1	27	26.5	
Planned	5/24/2019	9	712	79.2	
Planned	5/24/2019	6	113	18.8	
Planned	5/24/2019	5	280	55.9	
Planned	5/24/2019	1	201	201.4	
Planned	5/24/2019	4	61	15.2	
Planned	5/24/2019	1	80	80.4	
Planned	5/24/2019	1	41	40.9	
Planned	5/24/2019	1	45	44.8	
Planned	5/24/2019	1	5	5.0	
Planned	5/24/2019	1	38	38.1	
Planned	5/24/2019	1	38	38.3	
Planned	5/24/2019	1	52	51.7	
Planned	5/24/2019	1	6	5.6	
Planned	5/24/2019	4	41	10.2	
Planned	5/24/2019	3	131	43.7	
Planned	5/24/2019	3	133	44.4	
Planned	5/24/2019	8	904	113.0	
Planned	5/24/2019	5	552	110.4	
Planned	5/24/2019	5	410	82.1	
Planned	5/24/2019	5	707	141.4	
Planned	5/24/2019	41	917	22.4	
Customer Request	5/24/2019	1	41	41.0	
Planned	5/25/2019	1	113	113.1	
Planned	5/25/2019	1	15	15.0	
Planned	5/25/2019	1	76	75.5	

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	5/25/2019	1	259	258.6
Planned	5/25/2019	2	517	258.3
Planned	5/25/2019	1	13	13.4
Planned	5/25/2019	2	75	37.5
Planned	5/25/2019	5	1,915	383.0
Customer Request	5/25/2019	0	0	162.0
Customer Request	5/25/2019	2	64	32.0
Customer Request	5/25/2019	1	306	306.0
Planned	5/26/2019	7	561	80.2
Customer Request	5/26/2019	1	46	46.0
Customer Request	5/26/2019	1	48	48.4
Customer Request	5/27/2019	6	324	54.0
Planned	5/28/2019	5	778	155.5
Planned	5/28/2019	2	1,007	503.3
Planned	5/28/2019	6	454	75.7
Planned	5/28/2019	3	40	13.3
Planned	5/28/2019	1	34	34.3
Planned	5/28/2019	5	202	40.3
Planned	5/28/2019	6	390	65.1
Planned	5/28/2019	1	57	57.1
Planned	5/28/2019	6	1,391	231.8
Planned	5/28/2019	1	13	13.3
Planned	5/28/2019	20	287	14.4
Planned	5/28/2019	3	45	15.0
Planned	5/28/2019	1	33	32.7
Planned	5/28/2019	4	81	20.2
Planned	5/28/2019	1	92	91.7
Planned	5/28/2019	1	151	151.2
Planned	5/28/2019	14	168	12.0
Planned	5/28/2019	1	49	49.5
Planned	5/28/2019	3	238	79.3
Planned	5/28/2019	1	12	11.9
Planned	5/28/2019	2	209	104.5
Planned	5/28/2019	2	96	48.1
Planned	5/28/2019	1	6	6.0
Customer Request	5/28/2019	1	23	23.0
Planned	5/29/2019	1	21	21.0
Planned	5/29/2019	1	5	4.6
Planned	5/29/2019	1	10	9.8
Planned	5/29/2019	10	992	99.2
Planned	5/29/2019	1	33	33.2
Planned	5/29/2019	2	34	17.0
Planned	5/29/2019	8	136	17.0
Planned	5/29/2019	1	30	29.9
Planned	5/29/2019	1	181	181.1
Planned	5/29/2019	4	547	136.9
Planned	5/29/2019	3	123	41.1
Planned	5/29/2019	5	357	71.4

Q13 – D	Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar	
Planned	5/29/2019	4	51	12.8	
Planned	5/29/2019	1	5	5.3	
Planned	5/29/2019	1	29	29.4	
Planned	5/29/2019	1	4	4.3	
Planned	5/29/2019	7	126	18.0	
Planned	5/29/2019	1	9	9.0	
Planned	5/29/2019	1	11	11.1	
Planned	5/29/2019	4	501	125.3	
Planned	5/29/2019	6	624	104.1	
Planned	5/29/2019	1	12	12.5	
Planned	5/29/2019	3	153	51.1	
Planned	5/29/2019	11	404	36.8	
Planned	5/29/2019	20	1,900	95.0	
Planned	5/29/2019	9	473	52.6	
Planned	5/29/2019	1	11	11.2	
Planned	5/29/2019	1	248	248.2	
Planned	5/29/2019	1	9	8.7	
Planned	5/29/2019	4	151	37.9	
Planned	5/29/2019	8	313	39.1	
Planned	5/29/2019	4	251	62.7	
Planned	5/29/2019	8	657	82.1	
Planned	5/29/2019	2	150	74.8	
Planned	5/29/2019	7	525	75.0	
Planned	5/29/2019	1	15	15.1	
Planned	5/29/2019	5	166	33.2	
Planned	5/29/2019	3	114	38.1	
Planned	5/29/2019	20	80	4.0	
Planned	5/29/2019	4	251	62.9	
Planned	5/29/2019	4	170	42.4	
Planned	5/29/2019	3	136	45.2	
Planned	5/29/2019	1	31	30.9	
Planned	5/29/2019	49	1,107	22.6	
Planned	5/29/2019	241	1,060	4.4	
Planned	5/29/2019	3	290	96.6	
Planned	5/30/2019	3	263	87.7	
Planned	5/30/2019	11	173	15.8	
Planned	5/30/2019	2	40	20.0	
Planned	5/30/2019	1	185	185.2	
Planned	5/30/2019	3	68	22.6	
Planned	5/30/2019	3	225	75.1	
Planned	5/30/2019	105	2,126	20.3	
Planned	5/30/2019	26	764	29.4	
Planned	5/30/2019	1	63	62.8	
Planned	5/30/2019	3	175	58.3	
Planned	5/30/2019	4	219	54.9	
Planned	5/30/2019	3	391	130.5	
Planned	5/30/2019	2	188	94.0	
Planned	5/30/2019	8	1,413	176.6	
Fiailileu	3/30/2013	0	1,413	1/0.0	

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	5/30/2019	62	998	16.1
Planned	5/30/2019	2	267	133.3
Planned	5/30/2019	1	179	179.2
Planned	5/30/2019	31	1,208	39.0
Planned	5/30/2019	4	125	31.3
Planned	5/30/2019	1	57	57.5
Planned	5/30/2019	16	469	29.3
Planned	5/30/2019	15	670	44.6
Planned	5/30/2019	3	90	29.8
Planned	5/30/2019	1	7	7.0
Planned	5/30/2019	5	439	87.8
Planned	5/30/2019	1	86	86.3
Planned	5/30/2019	3	79	26.4
Planned	5/30/2019	1	30	30.4
Planned	5/30/2019	11	141	12.8
Planned	5/30/2019	1	13	13.5
Planned	5/30/2019	13	2,876	221.2
Planned	5/30/2019	1	71	71.2
Planned	5/31/2019	933	7,091	7.6
Planned	5/31/2019	25	898	35.9
Planned	5/31/2019	2	72	35.8
Planned	5/31/2019	4	172	43.0
Planned	5/31/2019	2	176	88.1
Planned	5/31/2019	1	131	130.9
Planned	5/31/2019	79	4,508	57.1
Planned	5/31/2019	1	39	39.3
Planned	5/31/2019	1	396	395.7
Planned	5/31/2019	2	177	88.6
Planned	5/31/2019	6	193	32.2
Planned	5/31/2019	4	164	40.9
Planned	5/31/2019	1	78	78.4
Planned	5/31/2019	3	364	121.3
Planned	5/31/2019	1	23	22.6
Planned	5/31/2019	2	211	105.4
Planned	5/31/2019	2	51	25.4
Planned	5/31/2019	1	14	14.2
Planned	5/31/2019	4	222	55.5
Planned	5/31/2019	1	45	44.7
Planned	5/31/2019	10	1,801	180.1
Customer Request	5/31/2019	1	34	34.0
Planned	6/1/2019	1,502	12,692	8.5
Planned	6/1/2019	4	222	55.5
Planned	6/1/2019	2	107	53.5
Planned	6/1/2019	1	16	15.6
Planned	6/1/2019	1	71	70.7
Planned	6/1/2019	1	61	60.5
Planned	6/1/2019	1	101	100.7
Planned	6/1/2019	1	41	40.6

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	6/1/2019	6	36	6.0
Planned	6/2/2019	1	14	13.6
Planned	6/3/2019	1	51	51.5
Planned	6/3/2019	2	199	99.4
Planned	6/3/2019	1	154	154.0
Planned	6/3/2019	2	148	74.2
Planned	6/3/2019	2	175	87.3
Planned	6/3/2019	3	1,165	388.2
Planned	6/3/2019	4	65	16.4
Planned	6/3/2019	1	42	41.8
Planned	6/3/2019	1	88	87.8
Planned	6/3/2019	6	154	25.6
Planned	6/3/2019	1	226	226.1
Planned	6/3/2019	8	1,717	214.7
Planned	6/3/2019	1	53	53.5
Planned	6/3/2019	2	97	48.4
Planned	6/3/2019	4	564	141.0
Planned	6/3/2019	3	584	194.6
Planned	6/3/2019	1	180	179.5
Planned	6/3/2019	2	118	58.8
Planned	6/3/2019	3	168	56.1
Planned	6/3/2019	2	191	95.4
Planned	6/3/2019	2	45	22.5
Planned	6/3/2019	4	120	30.0
Planned	6/3/2019	5	53	10.6
Planned	6/3/2019	1	10	10.4
Planned	6/3/2019	3	43	14.4
Planned	6/3/2019	43	1,298	30.2
Planned	6/3/2019	1	34	34.4
Customer Request	6/3/2019	1	77	77.0
Customer Request	6/3/2019	1	93	93.0
Customer Request	6/3/2019	1	207	206.8
Customer Request	6/3/2019	1	127	127.0
Customer Request	6/3/2019	0	0	53.9
Planned	6/4/2019	4	353	88.4
Planned	6/4/2019	5	406	81.3
Planned	6/4/2019	1	111	111.1
Planned	6/4/2019	4	234	58.6
Planned	6/4/2019	1	55	55.0
Planned	6/4/2019	1	24	24.0
Planned	6/4/2019	3	21	7.1
Planned	6/4/2019	1	22	22.2
Planned	6/4/2019	4	870	217.4
Planned	6/4/2019	7	58	8.3
Planned	6/4/2019	12	237	19.8
Planned	6/4/2019	6	196	32.7
Planned	6/4/2019	1	498	497.8
Planned	6/4/2019	1	37	37.0

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	6/4/2019	3	252	84.0
Planned	6/4/2019	1	7	6.8
Planned	6/4/2019	1	108	107.8
Planned	6/4/2019	3	53	17.8
Planned	6/4/2019	1	28	28.3
Planned	6/4/2019	127	2,093	16.5
Planned	6/4/2019	3	44	14.6
Planned	6/4/2019	1	16	15.9
Planned	6/4/2019	1	20	19.6
Planned	6/4/2019	44	1,532	34.8
Planned	6/4/2019	1	23	22.9
Planned	6/4/2019	1	69	69.5
Planned	6/4/2019	94	841	9.0
Planned	6/4/2019	2	77	38.7
Planned	6/4/2019	5	502	100.5
Planned	6/4/2019	2	267	133.5
Planned	6/4/2019	45	386	8.6
Planned	6/4/2019	2	53	26.3
Planned	6/4/2019	3	74	24.5
Planned	6/4/2019	1	19	19.2
Planned	6/4/2019	1	57	57.3
Planned	6/4/2019	1	115	115.4
Planned	6/4/2019	2	328	163.8
Planned	6/4/2019	3	411	137.0
Planned	6/4/2019	2	82	41.2
Planned	6/4/2019	6	128	21.4
Planned	6/4/2019	4	687	171.7
Planned	6/5/2019	7	919	131.3
Planned	6/5/2019	1	18	18.1
Planned	6/5/2019	4	347	86.8
Planned	6/5/2019	4	209	52.1
Planned	6/5/2019	5	100	20.1
Planned	6/5/2019	1	140	139.9
Planned	6/5/2019	1	6	6.0
Planned	6/5/2019	1	6	5.7
Planned	6/5/2019	1	41	40.9
Planned	6/5/2019	4	31	7.7
Planned	6/5/2019	3	260	86.5
Planned	6/5/2019	1	57	56.9
Planned	6/5/2019	1	82	81.7
Planned	6/5/2019	4	183	45.7
Planned	6/5/2019	4	343	85.7
Planned	6/5/2019	1	35	35.1
Planned	6/5/2019	1	80	80.3
Planned	6/5/2019	7	81	11.6
Planned	6/5/2019	1	35	35.0
Planned	6/5/2019	1	21	20.8
Planned	6/5/2019	1	378	378.1

Q13 – Di	Q13 – Distribution Excluded Outage Events					
Causation	Date	CI	CMI	L-Bar		
Planned	6/5/2019	1	24	24.0		
Planned	6/5/2019	1	22	21.9		
Planned	6/5/2019	6	146	24.3		
Planned	6/5/2019	1	114	114.4		
Planned	6/5/2019	2	179	89.7		
Planned	6/5/2019	3	143	47.8		
Planned	6/5/2019	7	109	15.6		
Planned	6/5/2019	4	243	60.8		
Planned	6/5/2019	4	90	22.5		
Planned	6/5/2019	5	50	10.0		
Planned	6/5/2019	1	22	21.8		
Planned	6/5/2019	4	364	91.1		
Planned	6/5/2019	7	98	14.0		
Planned	6/5/2019	7	862	123.2		
Customer Request	6/5/2019	1	101	101.0		
Planned	6/6/2019	1	118	117.8		
Planned	6/6/2019	1	116	116.1		
Planned	6/6/2019	2	145	72.5		
Planned	6/6/2019	24	332	13.8		
Planned	6/6/2019	1	48	48.0		
Planned	6/6/2019	3	18	6.0		
Planned	6/6/2019	2	18	9.0		
Planned	6/6/2019	1	11	11.4		
Planned	6/6/2019	1	37	37.4		
Planned	6/6/2019	2	273	136.4		
Planned	6/6/2019	124	8,942	72.1		
	6/6/2019	1	11	10.7		
Customer Request		1	27			
Planned	6/7/2019	1		26.6 25.2		
Planned	6/7/2019		25			
Planned	6/7/2019	2	64	32.0		
Planned	6/7/2019	5 1	309	61.7		
Planned	6/7/2019		11	11.0		
Planned	6/7/2019	93	812	8.7		
Planned	6/7/2019	1 75	24	24.4		
Planned	6/7/2019	75	1,276	17.0		
Planned	6/7/2019	3	31	10.3		
Planned	6/7/2019	1	36	36.0		
Planned	6/7/2019	2	26	12.9		
Customer Request	6/7/2019	0	0	20.8		
Planned	6/8/2019	1	20	19.9		
Planned	6/8/2019	1	67	67.0		
Planned	6/8/2019	2	37	18.3		
Planned	6/8/2019	9	181	20.1		
Planned	6/8/2019	4	61	15.3		
Planned	6/8/2019	1	38	38.0		
Planned	6/8/2019	16	1,640	102.5		
Planned	6/8/2019	16	1,582	98.9		
Customer Request	6/8/2019	1	131	130.9		

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	6/9/2019	1	118	118.0
Planned	6/10/2019	5	116	23.2
Planned	6/10/2019	6	399	66.5
Planned	6/10/2019	5	142	28.5
Planned	6/10/2019	1	20	19.7
Planned	6/10/2019	1	58	58.1
Planned	6/10/2019	2	20	10.0
Planned	6/10/2019	1	24	24.4
Planned	6/10/2019	1	24	24.0
Planned	6/10/2019	1	32	31.9
Planned	6/10/2019	6	154	25.7
Planned	6/10/2019	1	60	59.6
Planned	6/10/2019	1	12	11.8
Planned	6/10/2019	4	268	67.0
Planned	6/10/2019	2	67	33.5
Planned	6/11/2019	6	271	45.2
Planned	6/11/2019	44	2,435	55.4
Planned	6/11/2019	1	17	16.7
Planned	6/11/2019	1	23	22.6
Planned	6/11/2019	3	35	11.7
Planned	6/11/2019	4	47	11.8
Planned	6/11/2019	3	118	39.4
Planned	6/11/2019	1	26	25.5
Planned	6/11/2019	3	124	41.3
Planned	6/11/2019	3	283	94.4
Planned	6/11/2019	1	41	41.0
Planned	6/11/2019	1	57	57.4
Planned	6/11/2019	6	451	75.2
Planned	6/11/2019	1	13	13.0
Planned	6/11/2019	316	13,893	44.0
Planned	6/11/2019	1	22	22.2
Planned	6/11/2019	2	31	15.6
Planned	6/11/2019	1	39	39.4
Planned	6/11/2019	3	192	63.9
Planned	6/11/2019	1	91	91.4
Planned	6/11/2019	1	55	55.5
Planned	6/11/2019	1	30	29.8
Planned	6/11/2019	1	45	44.7
Planned	6/11/2019	4	145	36.2
Planned	6/11/2019	28	614	21.9
Planned	6/11/2019	4	254	63.4
Planned	6/11/2019	2	258	129.0
Planned	6/11/2019	6	617	102.8
Planned	6/11/2019	5	632	126.4
Planned	6/11/2019	28	290	10.4
Planned	6/11/2019	5	89	17.8
Planned	6/11/2019	5	162	32.5
Customer Request	6/11/2019	1	58	58.1

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	6/12/2019	74	1,258	17.0
Planned	6/12/2019	1	44	44.3
Planned	6/12/2019	4	151	37.7
Planned	6/12/2019	4	95	23.9
Planned	6/12/2019	5	892	178.5
Planned	6/12/2019	25	4,028	161.1
Planned	6/12/2019	1	32	31.8
Planned	6/12/2019	1	41	40.5
Planned	6/12/2019	47	2,901	61.7
Planned	6/12/2019	2	292	146.1
Planned	6/12/2019	2	113	56.5
Planned	6/12/2019	1	112	112.0
Planned	6/12/2019	10	1,006	100.6
Planned	6/12/2019	8	293	36.6
Planned	6/12/2019	6	311	51.8
Planned	6/12/2019	6	496	82.6
Planned	6/12/2019	3	130	43.3
Planned	6/12/2019	1	74	74.2
Planned	6/12/2019	1	26	26.0
Planned	6/12/2019	4	308	77.1
Planned	6/12/2019	6	270	44.9
Planned	6/12/2019	1	348	347.6
Planned	6/12/2019	1	38	37.7
Planned	6/12/2019	1	182	182.1
Planned	6/12/2019	4	270	67.5
Planned	6/12/2019	3	147	49.0
Planned	6/12/2019	2	181	90.3
Planned	6/12/2019	4	362	90.6
Planned	6/12/2019	1	180	180.2
Planned	6/12/2019	1	97	97.1
Planned	6/12/2019	1	42	42.3
Planned	6/12/2019	9	476	52.8
Planned	6/12/2019	1	21	21.1
Customer Request	6/12/2019	1	34	34.0
Customer Request	6/12/2019	1	52	52.0
Planned	6/13/2019	4	269	67.3
Planned	6/13/2019	3	144	48.0
Planned	6/13/2019	5	259	51.8
Planned	6/13/2019	1	60	60.1
Planned	6/13/2019	1	13	12.7
Planned	6/13/2019	1	48	48.2
Planned	6/13/2019	4	350	87.5
Planned	6/13/2019	1	11	10.9
Planned	6/13/2019	2	111	55.7
Planned	6/13/2019	2	140	70.0
Planned	6/13/2019	2	60	30.2
Planned	6/13/2019	7	685	97.8
Planned	6/13/2019	3	122	40.7

Q13 – [Distribution Excl	uded Out	age Events	
Causation	Date	CI	CMI	L-Bar
Planned	6/13/2019	1	97	96.8
Planned	6/13/2019	1	13	12.7
Planned	6/13/2019	1	62	62.0
Planned	6/13/2019	1	14	14.0
Planned	6/13/2019	1	24	24.0
Planned	6/13/2019	4	16	4.0
Planned	6/13/2019	1	15	15.4
Planned	6/13/2019	2	111	55.6
Planned	6/13/2019	1	91	91.5
Planned	6/13/2019	1	156	156.0
Planned	6/13/2019	1	25	24.5
Planned	6/13/2019	3	31	10.3
Planned	6/13/2019	2	43	21.4
Planned	6/14/2019	1	137	136.8
Planned	6/14/2019	1	72	71.5
Planned	6/14/2019	6	252	42.0
Planned	6/14/2019	1	44	44.1
Planned	6/14/2019	7	139	19.9
Planned	6/14/2019	7	187	26.8
Planned	6/14/2019	7	119	17.0
Planned	6/14/2019	1	28	28.4
Planned	6/14/2019	1	24	24.0
Planned	6/15/2019	1	181	181.0
Planned	6/15/2019	5	202	40.5
Planned	6/15/2019	6	372	62.0
Planned	6/17/2019	1	10	9.6
Planned	6/17/2019	6	417	69.4
Planned	6/17/2019	3	491	163.7
Planned	6/17/2019	4	635	158.8
Planned	6/17/2019	1	137	136.8
Planned	6/17/2019	1	20	19.5
Planned	6/17/2019	3	339	113.0
Planned	6/17/2019	1	20	20.2
Planned	6/17/2019	1	20	20.3
Planned	6/17/2019	3	619	206.4
Planned	6/17/2019	1	56	55.8
Planned	6/17/2019	2	179	89.5
Planned	6/17/2019	5	349	69.8
Planned	6/17/2019	3	130	43.2
Planned	6/17/2019	1	44	43.8
Planned	6/17/2019	1	9	9.0
Planned	6/17/2019	1	22	21.9
Planned	6/17/2019	1	23	23.0
Planned	6/17/2019	1	8	7.9
Planned	6/17/2019	2	77	38.7
Planned	6/17/2019		48	47.8
Planned	6/17/2019	1	20	20.0
Planned	6/17/2019	1	8	8.5

Q13 – Di	stribution Exc	luded Out	age Events	
Causation	Date	CI	CMI	L-Bar
Planned	6/17/2019	1	104	104.4
Planned	6/17/2019	7	927	132.4
Planned	6/17/2019	7	613	87.6
Planned	6/17/2019	2	60	30.1
Planned	6/17/2019	1	17	16.7
Planned	6/17/2019	3	40	13.3
Planned	6/17/2019	8	479	59.9
Planned	6/17/2019	10	1,058	105.8
Planned	6/17/2019	7	739	105.6
Customer Request	6/17/2019	0	0	140.0
Customer Request	6/17/2019	15	3,216	214.4
Planned	6/18/2019	1	68	68.2
Planned	6/18/2019	2	61	30.4
Planned	6/18/2019	8	166	20.7
Planned	6/18/2019	3	308	102.7
Planned	6/18/2019	6	138	22.9
Planned	6/18/2019	4	2,320	580.0
Planned	6/18/2019	3	410	136.8
Planned	6/18/2019	1	63	62.8
Planned	6/18/2019	70	2,242	32.0
Planned	6/18/2019	7	447	63.9
Planned	6/18/2019	1	12	12.0
Planned	6/18/2019	5	519	103.9
Planned	6/18/2019	1	102	101.8
Planned	6/18/2019	3	82	27.2
Planned	6/18/2019	1	27	27.3
Planned	6/18/2019	4	536	134.1
Planned	6/18/2019	1	23	22.7
Planned	6/18/2019	1	48	48.4
Planned	6/18/2019	22	5,852	266.0
Planned	6/18/2019	1	115	114.7
Planned	6/18/2019	1	60	60.0
Planned	6/18/2019	3	481	160.4
Planned	6/18/2019	7	1,084	154.8
Planned	6/18/2019	4	224	56.1
Planned	6/18/2019	1	60	59.9
Planned	6/18/2019	2	75	37.6
Customer Request	6/18/2019	1	23	23.0
Customer Request	6/18/2019	1	298	298.3
Planned	6/19/2019	1	41	40.9
Planned	6/19/2019	4	423	105.8
Planned	6/19/2019	1	30	30.0
Planned	6/19/2019	7	558	79.7
Planned	6/19/2019	8	337	42.1
Planned	6/19/2019	5	603	120.6
Planned	6/19/2019	1	460	459.8
Planned	6/19/2019	4	500	124.9
Planned	6/19/2019	1	86	86.5

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	6/19/2019	1	16	16.5
Planned	6/19/2019	4	360	89.9
Planned	6/19/2019	1	101	101.0
Planned	6/19/2019	1	78	78.3
Planned	6/19/2019	2	411	205.3
Planned	6/19/2019	1	9	8.6
Planned	6/19/2019	2	98	48.9
Planned	6/19/2019	1	47	47.3
Planned	6/19/2019	3	86	28.7
Planned	6/19/2019	1	15	14.5
Planned	6/19/2019	1	6	6.3
Planned	6/19/2019	2	32	15.9
Planned	6/19/2019	13	1,513	116.4
Planned	6/19/2019	3	134	44.8
Planned	6/19/2019	6	38	6.3
Planned	6/19/2019	1	42	42.1
Planned	6/19/2019	1	42	42.3
Planned	6/19/2019	2	65	32.4
Planned	6/19/2019	1	11	11.1
Planned	6/19/2019	8	610	76.3
Planned	6/19/2019	4	460	115.0
Planned	6/19/2019	3	174	58.1
Planned	6/19/2019	1	41	41.0
Planned	6/20/2019	1	107	107.0
Planned	6/20/2019	1	63	63.1
Planned	6/20/2019	2	236	118.1
Planned	6/20/2019	22	3,022	137.4
Planned	6/20/2019	6	516	86.0
Planned	6/20/2019	1	66	66.0
Planned	6/20/2019	4	765	191.3
Planned	6/20/2019	12	127	10.6
Planned	6/20/2019	3	532	177.2
Planned	6/20/2019	18	1,097	61.0
Planned	6/20/2019	1	22	21.9
Planned	6/20/2019	3	453	150.9
Planned	6/20/2019	3	469	156.3
Planned	6/20/2019	4	50	12.5
Planned	6/20/2019	4	577	144.1
Planned	6/20/2019	1	98	98.1
Planned	6/20/2019	2	323	161.3
Planned	6/20/2019	20	428	21.4
Planned	6/20/2019	12	204	17.0
Customer Request	6/20/2019	1	12	11.7
Customer Request	6/20/2019	1	18	17.9
Customer Request	6/20/2019	1	9	9.5
Customer Request	6/20/2019	1	44	44.0
Customer Request	6/20/2019	1	20	20.0
Planned	6/21/2019	1	212	211.6
Harified	0/21/2013		<u> </u>	211.0

Q13 – Di	stribution Exc	luded Out	age Events	
Causation	Date	CI	CMI	L-Bar
Planned	6/21/2019	5	316	63.3
Planned	6/21/2019	3	42	14.0
Planned	6/21/2019	18	1,826	101.4
Planned	6/21/2019	5	175	35.0
Planned	6/21/2019	1	21	21.4
Planned	6/21/2019	7	385	55.1
Planned	6/21/2019	3	145	48.4
Planned	6/21/2019	5	230	46.0
Planned	6/21/2019	1	46	45.7
Planned	6/21/2019	1	26	25.8
Planned	6/21/2019	5	99	19.7
Planned	6/21/2019	6	151	25.2
Planned	6/21/2019	3	171	56.9
Planned	6/21/2019	1	56	56.2
Planned	6/21/2019	1	117	116.6
Planned	6/21/2019	1	51	51.0
Planned	6/21/2019	2	63	31.6
Planned	6/21/2019	3	48	16.0
Planned	6/21/2019	1	30	30.2
Planned	6/21/2019	1	36	36.0
Planned	6/21/2019	1	68	67.7
Planned	6/21/2019	7	185	26.4
Planned	6/21/2019	1	51	50.6
Planned	6/21/2019	1	18	17.8
Planned	6/21/2019	1	15	15.1
Planned	6/21/2019	5	184	36.8
Planned	6/22/2019	1	30	30.2
Planned	6/22/2019	1	23	22.9
Planned	6/23/2019	3	352	117.2
Planned	6/23/2019	1	45	44.9
Planned	6/23/2019	1	38	37.9
Planned	6/23/2019	1	25	25.2
Customer Request	6/23/2019	1	58	58.0
Planned	6/24/2019	7	272	38.9
Planned	6/24/2019	3	32	10.5
Planned	6/24/2019	6	69	11.5
Planned	6/24/2019	3	623	207.8
Planned	6/24/2019	1	151	151.2
Planned	6/24/2019	2	139	69.4
Planned	6/24/2019	4	265	66.2
Planned	6/24/2019	1	69	68.9
Planned	6/24/2019	1	25	24.6
Planned	6/24/2019	1	82	81.6
Planned	6/24/2019	3	60	20.1
Planned	6/24/2019	1	65	65.2
Planned	6/24/2019	1	88	87.6
Planned	6/24/2019	11	471	42.8
Planned	6/24/2019	1	59	59.3

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	6/24/2019	1	36	36.3
Planned	6/24/2019	2	44	21.9
Planned	6/24/2019	1	67	67.3
Planned	6/24/2019	1	55	54.6
Planned	6/24/2019	2	49	24.3
Planned	6/24/2019	1	18	18.4
Planned	6/24/2019	2	147	73.5
Planned	6/24/2019	5	520	104.0
Planned	6/24/2019	1	5	5.5
Planned	6/24/2019	1	13	13.0
Planned	6/24/2019	3	192	63.9
Planned	6/24/2019	7	964	137.8
Planned	6/24/2019	3	387	129.0
Planned	6/24/2019	1	91	90.6
Planned	6/24/2019	1	91	90.7
Planned	6/24/2019	1	19	19.2
Planned	6/24/2019	2	113	56.5
Planned	6/24/2019	1	75	74.6
Customer Request	6/24/2019	1	43	43.0
Customer Request	6/24/2019	1	113	113.0
Customer Request	6/24/2019	1	318	318.0
Customer Request	6/24/2019	65	493	7.6
Planned	6/25/2019	1	439	439.0
Planned	6/25/2019	1	77	77.1
Planned	6/25/2019	1	155	155.4
Planned	6/25/2019	6	849	141.6
Planned	6/25/2019	1	149	149.1
Planned	6/25/2019	1	100	100.2
Planned	6/25/2019	4	287	71.8
Planned	6/25/2019	1	28	28.2
Planned	6/25/2019	1	46	46.4
Planned	6/25/2019	9	468	52.0
Planned	6/25/2019	4	361	90.3
Planned	6/25/2019	9	962	106.8
Planned	6/25/2019	3	309	102.9
Planned	6/25/2019	1	118	117.7
Planned	6/25/2019	1	14	14.0
Planned	6/25/2019	5	352	70.4
Planned	6/26/2019	5	395	79.0
Planned	6/26/2019	1	553	552.6
Planned	6/26/2019	6	711	118.6
Planned	6/26/2019	1	41	40.5
Planned	6/26/2019	12	1,196	99.7
Planned	6/26/2019	9	888	98.6
Planned	6/26/2019	5	282	56.4
Planned	6/26/2019	3	29	9.7
Planned	6/26/2019	1	96	95.7
Planned	6/26/2019	3	78	26.0

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	6/26/2019	6	148	24.7
Planned	6/26/2019	5	102	20.5
Planned	6/26/2019	12	1,235	102.9
Planned	6/26/2019	1	54	54.3
Planned	6/26/2019	7	143	20.5
Planned	6/26/2019	10	1,650	165.0
Planned	6/26/2019	1	67	66.7
Planned	6/26/2019	70	3,728	53.3
Planned	6/26/2019	1	12	12.0
Planned	6/26/2019	5	160	32.0
Planned	6/26/2019	3	282	94.1
Planned	6/26/2019	1	13	13.5
Planned	6/26/2019	1	14	13.6
Planned	6/26/2019	1	37	36.9
Planned	6/27/2019	1	81	81.0
Planned	6/27/2019	1	816	816.1
Planned	6/27/2019	1	337	337.0
Planned	6/27/2019	11	542	49.3
Planned	6/27/2019	204	8,687	42.6
Planned	6/27/2019	2	255	127.7
Planned	6/27/2019	5	462	92.3
Planned	6/27/2019	3	277	92.5
Planned	6/27/2019	1	46	46.2
Planned	6/27/2019	2	127	63.5
Planned	6/27/2019	2	127	63.6
Planned	6/27/2019	1	19	19.2
Planned	6/27/2019	1	57	56.9
Planned	6/27/2019	2	110	54.8
Planned	6/27/2019	1	73	72.8
Planned	6/27/2019	1	19	19.3
Planned	6/27/2019	1	423	423.4
Planned	6/27/2019	1	20	20.1
Planned	6/27/2019	13	697	53.6
Planned	6/27/2019	4	210	52.4
Planned	6/27/2019	2	37	18.3
Planned	6/27/2019	4	470	117.5
Planned	6/27/2019	1	41	41.4
Planned	6/27/2019	4	153	38.3
Planned	6/27/2019	6	128	21.4
Planned	6/27/2019	4	199	49.8
Customer Request	6/27/2019	1	49	49.0
Planned	6/28/2019	20	863	43.2
Planned	6/28/2019	1	78	78.0
Planned	6/28/2019	1	111	110.6
Planned	6/28/2019	4	131	32.8
Planned	6/28/2019	5	254	50.9
Planned	6/28/2019	1	29	29.5
Planned	6/28/2019	1	155	154.8

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	6/28/2019	3	99	33.0
Planned	6/28/2019	1	12	12.0
Planned	6/28/2019	1	58	58.0
Planned	6/28/2019	1	58	57.9
Planned	6/28/2019	1	30	30.0
Planned	6/28/2019	3,117	8,728	2.8
Planned	6/28/2019	1,144	5,720	5.0
Planned	6/28/2019	1	30	30.0
Planned	6/28/2019	3	56	18.7
Planned	6/28/2019	2	29	14.4
Planned	6/28/2019	18	814	45.2
Customer Request	6/28/2019	1	98	98.0
Planned	6/29/2019	1	16	15.8
Planned	6/29/2019	2	208	104.2
Customer Request	6/29/2019	1	74	74.0
Customer Request	6/29/2019	1	30	30.3
Planned	6/30/2019	1	5	5.4
Customer Request	6/30/2019	1	28	28.0
Planned	7/1/2019	14	182	13.0
Planned	7/1/2019	7	1,022	146.0
Planned	7/1/2019	8	1,050	131.2
Planned	7/1/2019	3	126	42.1
Planned	7/1/2019	3	73	24.3
Planned	7/1/2019	2	174	87.1
Planned	7/1/2019	4	333	83.2
Planned	7/1/2019	1	59	58.6
Planned	7/1/2019	143	143	1.0
Planned	7/1/2019	7	620	88.5
Planned	7/1/2019	8	768	96.0
Planned	7/1/2019	83	498	6.0
Planned	7/1/2019	1	74	73.6
Planned	7/1/2019	1	74	74.0
Planned	7/1/2019	4	198	49.5
Planned	7/1/2019	1	79	79.3
Planned	7/1/2019	6	154	25.7
Planned	7/1/2019	6	216	36.0
Planned	7/1/2019	6	210	35.0
Customer Request	7/1/2019	1	280	280.0
Customer Request	7/1/2019	1	93	93.0
Customer Request	7/1/2019	1	31	31.0
Planned	7/2/2019	6	687	114.5
Planned	7/2/2019	7	532	76.0
Planned	7/2/2019	3	220	73.2
Planned	7/2/2019	9	715	79.4
Planned	7/2/2019	2	165	82.7
Planned	7/2/2019	6	37	6.2
Planned	7/2/2019	1	37	37.0
Planned	7/2/2019	1	119	119.5

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	7/2/2019	6	880	146.7
Planned	7/2/2019	5	367	73.4
Planned	7/2/2019	1	189	188.7
Planned	7/2/2019	1	29	29.0
Planned	7/2/2019	3	71	23.7
Planned	7/2/2019	2	88	43.8
Planned	7/2/2019	1	105	104.8
Planned	7/2/2019	2	209	104.6
Planned	7/2/2019	16	3,175	198.5
Planned	7/2/2019	2	304	152.0
Planned	7/2/2019	1	35	35.3
Planned	7/2/2019	37	1,138	30.8
Planned	7/2/2019	1	35	34.9
Planned	7/2/2019	7	590	84.2
Planned	7/2/2019	4	95	23.7
Planned	7/2/2019	1	50	49.6
Planned	7/2/2019	1	70	69.9
Planned	7/2/2019	11	760	69.1
Planned	7/2/2019	2	277	138.3
Planned	7/2/2019	1,836	5,661	3.1
Planned	7/2/2019	64	3,572	55.8
Planned	7/2/2019	1	14	13.5
Planned	7/2/2019	3	158	52.6
Planned	7/2/2019	3	93	30.9
Planned	7/2/2019	147	1,803	12.3
Customer Request	7/2/2019	0	0	49.0
Customer Request	7/2/2019	1	509	509.0
Planned	7/3/2019	1	13	12.6
Planned	7/3/2019	1	173	173.3
Planned	7/3/2019	2	55	27.3
Planned	7/3/2019	12	218	18.2
Planned	7/3/2019	20	1,857	92.8
Planned	7/3/2019	1	51	51.4
Planned	7/3/2019	1	42	41.7
Planned	7/3/2019	1	14	14.2
Planned	7/3/2019	1	137	137.5
Planned	7/3/2019	3	129	43.0
Planned	7/3/2019	3	177	59.0
Planned	7/3/2019	1	19	19.1
Planned	7/3/2019	1	43	42.5
Planned	7/3/2019	2	171	85.7
Planned	7/3/2019	6	892	148.6
Planned	7/3/2019	1	315	315.1
Planned	7/3/2019	5	205	41.0
Planned	7/3/2019	1	54	54.2
Planned	7/3/2019	1	22	21.6
Planned	7/3/2019		1,251	
ridillieu	1/3/2019	60	1,201	20.9

Q13 – D	istribution Exc	luded Out	age Events	
Causation	Date	CI	CMI	L-Bar
Planned	7/3/2019	1	102	101.7
Planned	7/3/2019	1	20	19.6
Planned	7/3/2019	1	39	38.8
Planned	7/4/2019	4	85	21.2
Planned	7/5/2019	5	366	73.3
Planned	7/5/2019	1	202	202.1
Planned	7/5/2019	1	90	89.6
Planned	7/5/2019	1	140	140.0
Planned	7/5/2019	1	142	142.3
Planned	7/5/2019	1	85	85.3
Planned	7/5/2019	3	24	8.1
Planned	7/5/2019	6	113	18.9
Planned	7/5/2019	5	98	19.7
Planned	7/5/2019	1	16	15.9
Planned	7/5/2019	25	601	24.1
Planned	7/6/2019	1	13	13.0
Planned	7/6/2019	372	34,255	92.1
Planned	7/6/2019	2	116	58.2
Planned	7/6/2019	2	615	307.5
Planned	7/7/2019	1	20	20.3
Planned	7/7/2019	1	17	16.8
Planned	7/7/2019	4	110	27.5
Planned	7/7/2019	4	108	27.0
Planned	7/8/2019	70	397	5.7
Planned	7/8/2019	4	62	15.5
Planned	7/8/2019	8	741	92.6
Planned	7/8/2019	2	120	60.0
Planned	7/8/2019	1	57	57.0
Planned	7/8/2019	1	2	2.0
Planned	7/8/2019	6	1,265	210.8
Planned	7/8/2019	6	636	106.0
Planned	7/8/2019	3	54	18.0
Planned	7/8/2019	3	483	161.0
Planned	7/8/2019	3	69	23.0
Planned	7/8/2019	1	66	66.1
Planned	7/8/2019	1	13	13.0
Planned	7/8/2019	1	119	119.3
Planned	7/8/2019	5	487	97.4
Planned	7/8/2019	1	7	7.5
Planned	7/8/2019	98	882	9.0
Planned	7/8/2019	2	29	14.6
Planned	7/8/2019	1	178	178.3
Planned	7/8/2019	2	150	74.9
Planned	7/8/2019	6	548	91.3
Planned	7/8/2019	5	84	16.7
Planned	7/8/2019	1	16	16.1
Planned	7/8/2019	4	89	22.4
Planned	7/8/2019	5	207	41.4

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	7/8/2019	10	2,671	267.1
Planned	7/8/2019	2	18	8.9
Planned	7/8/2019	84	4,865	57.9
Customer Request	7/8/2019	0	0	106.0
Planned	7/9/2019	4	74	18.6
Planned	7/9/2019	3	56	18.8
Planned	7/9/2019	12	1,362	113.5
Planned	7/9/2019	23	2,951	128.3
Planned	7/9/2019	1	128	128.2
Planned	7/9/2019	3	304	101.4
Planned	7/9/2019	1	102	102.0
Planned	7/9/2019	1	58	57.8
Planned	7/9/2019	1	56	55.7
Planned	7/9/2019	1	21	21.4
Planned	7/9/2019	1	163	163.1
Planned	7/9/2019	3	490	163.2
Planned	7/9/2019	1	54	54.1
Planned	7/9/2019	1	11	10.8
Planned	7/9/2019	2	232	116.2
Planned	7/9/2019	1	18	18.0
Planned	7/9/2019	3	134	44.6
Planned	7/9/2019	1	59	58.6
Planned	7/9/2019	16	300	18.8
Planned	7/9/2019	1	19	19.1
Planned	7/9/2019	27	243	9.0
Planned	7/9/2019	1	12	11.5
Planned	7/9/2019	6	172	28.6
Planned	7/9/2019	6	464	77.4
Planned	7/9/2019	2	461	230.5
Planned	7/9/2019	6	149	24.9
Planned	7/9/2019	1	117	116.7
Planned	7/9/2019	2	51	25.3
Planned	7/9/2019	3	93	30.9
Customer Request	7/9/2019	1	152	152.4
Customer Request	7/9/2019	1	34	34.4
Customer Request	7/9/2019	25	264	10.6
Customer Request	7/9/2019	0	0	52.0
Planned	7/10/2019	2	179	89.4
Planned	7/10/2019	12	2,141	178.5
Planned	7/10/2019	3	240	80.1
Planned	7/10/2019	14	660	47.2
Planned	7/10/2019	1	57	57.1
Planned	7/10/2019	1	55	54.6
Planned	7/10/2019	4	34	8.5
Planned	7/10/2019	4	181	45.3
Planned	7/10/2019	1	58	58.4
Planned	7/10/2019	3	87	29.0
Planned	7/10/2019	1	54	54.0

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	7/10/2019	1	51	51.3
Planned	7/10/2019	1	63	63.2
Planned	7/10/2019	25	647	25.9
Planned	7/10/2019	4	346	86.5
Planned	7/10/2019	1	86	86.3
Planned	7/10/2019	2	35	17.7
Planned	7/10/2019	4	398	99.4
Planned	7/10/2019	2	99	49.6
Planned	7/10/2019	1	28	27.9
Planned	7/10/2019	3	84	28.0
Planned	7/10/2019	11	308	28.0
Planned	7/10/2019	3	414	138.0
Customer Request	7/10/2019	1	9	9.0
Planned	7/11/2019	3	118	39.4
Planned	7/11/2019	3	82	27.3
Planned	7/11/2019	1	48	48.3
Planned	7/11/2019	4	367	91.8
Planned	7/11/2019	2	516	258.1
Planned	7/11/2019	1	9	9.3
Planned	7/11/2019	7	3,189	455.5
Customer Request	7/11/2019	3	294	98.0
Customer Request	7/11/2019	1	58	58.0
Customer Request	7/11/2019	1	76	76.0
Planned	7/11/2013	7	900	128.6
Planned	7/12/2019	1	74	74.1
Planned	7/12/2019	6	874	145.7
Planned	7/12/2019	4	90	22.6
Planned	7/12/2019	1	2	2.0
Planned	7/12/2019	1	130	129.6
Planned	7/12/2019	9	879	
				97.7
Planned	7/12/2019	2	443	221.5
Planned	7/12/2019		17	17.0
Planned	7/12/2019	12	372	31.0
Planned	7/12/2019	1 57	51	50.7
Planned	7/12/2019	57	2,853	50.1
Customer Request	7/12/2019	27	307	11.4
Customer Request	7/12/2019	1	17	17.0
Customer Request	7/13/2019	1	34	34.0
Planned	7/15/2019	1	107	106.9
Planned	7/15/2019	1	31	31.4
Planned	7/15/2019	2	18	9.0
Planned	7/15/2019	1	29	28.5
Planned	7/15/2019	3	135	44.9
Planned	7/15/2019	28	56	2.0
Planned	7/15/2019	1	36	36.1
Planned	7/15/2019	7	21	3.0
Planned	7/15/2019	9	356	39.6
Planned	7/15/2019	6	403	67.2

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	7/15/2019	4	117	29.2
Planned	7/15/2019	3	110	36.7
Planned	7/15/2019	2	54	26.9
Planned	7/15/2019	1	52	51.5
Planned	7/15/2019	2	66	33.0
Planned	7/15/2019	1	23	23.5
Planned	7/15/2019	3	22	7.4
Planned	7/15/2019	1	40	39.5
Planned	7/15/2019	5	30	6.0
Planned	7/15/2019	247	1,890	7.7
Planned	7/15/2019	3	193	64.3
Planned	7/15/2019	1	15	15.3
Planned	7/15/2019	10	420	42.0
Planned	7/15/2019	69	1,630	23.6
Customer Request	7/15/2019	2	92	46.0
Customer Request	7/15/2019	2	94	47.0
•	7/13/2019	3	323	107.8
Planned		9	552	61.3
Planned	7/16/2019	1		
Planned	7/16/2019		198	197.8
Planned	7/16/2019	5	413	82.7
Planned	7/16/2019	2	124	62.1
Planned	7/16/2019	1	17	17.2
Planned	7/16/2019	3	53	17.5
Planned	7/16/2019	1	31	31.0
Planned	7/16/2019	4	87	21.7
Planned	7/16/2019	3	91	30.3
Planned	7/16/2019	3	54	18.0
Customer Request	7/16/2019	1	21	21.0
Planned	7/17/2019	3	415	138.3
Planned	7/17/2019	3	141	47.0
Planned	7/17/2019	11	2,082	189.3
Planned	7/17/2019	4	109	27.1
Planned	7/17/2019	1	83	83.3
Planned	7/17/2019	46	4,949	107.6
Planned	7/17/2019	1	69	69.5
Planned	7/17/2019	1	73	72.7
Planned	7/17/2019	1	8	7.5
Planned	7/17/2019	7	459	65.6
Planned	7/17/2019	7	190	27.1
Planned	7/17/2019	1	32	31.9
Planned	7/17/2019	6	128	21.3
Planned	7/17/2019	5	184	36.9
Planned	7/17/2019	2	67	33.4
Planned	7/17/2019	1	42	42.0
Planned	7/17/2019	1	24	24.3
Planned	7/17/2019	1	115	115.3
Planned	7/17/2019	1	20	19.6
Planned	7/17/2019	1	11	10.6

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Customer Request	7/17/2019	24	647	27.0
Customer Request	7/17/2019	12	169	14.1
Planned	7/18/2019	6	551	91.8
Planned	7/18/2019	4	777	194.2
Planned	7/18/2019	7	1,330	190.0
Planned	7/18/2019	1	61	61.1
Planned	7/18/2019	4	732	183.0
Planned	7/18/2019	1	25	24.7
Planned	7/18/2019	1	19	18.7
Planned	7/18/2019	1	51	51.1
Planned	7/18/2019	4	511	127.8
Planned	7/18/2019	6	90	15.0
Planned	7/18/2019	3	134	44.7
Planned	7/18/2019	1	18	18.5
Planned	7/18/2019	1	16	16.2
Planned	7/18/2019	10	1,192	119.2
Planned	7/18/2019	7	735	105.0
Customer Request	7/18/2019	1	28	28.0
Planned	7/19/2019	1	94	94.0
Planned	7/19/2019	1	17	17.5
Planned	7/19/2019	3	220	73.3
Planned	7/19/2019	1	270	269.6
Planned	7/19/2019	1	42	42.2
Planned	7/19/2019	36	1,703	47.3
Planned	7/19/2019	6	99	16.5
Planned	7/19/2019	1	11	10.9
Planned	7/19/2019	1	152	151.9
Planned	7/19/2019	1	7	7.5
	7/19/2019	1	6	6.1
Planned	7/19/2019			
Planned		1	11	10.8
Planned	7/19/2019	1	88	88.0
Planned	7/19/2019		161	161.2
Planned	7/19/2019	23	235	10.2
Planned	7/19/2019	1	61	60.8
Planned	7/19/2019	1	19	19.0
Planned	7/19/2019	1	19	18.8
Planned	7/20/2019	2	18	8.9
Planned	7/20/2019	10	545	54.5
Planned	7/20/2019	3	134	44.7
Planned	7/20/2019	1	8	8.3
Planned	7/20/2019	1	5	5.1
Planned	7/20/2019	1	105	105.2
Planned	7/21/2019	1	8	7.9
Planned	7/22/2019	1	27	27.0
Planned	7/22/2019	85	10,903	128.3
Planned	7/22/2019	4	164	40.9
Planned	7/22/2019	1	20	20.4
Planned	7/22/2019	3	45	15.0

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	7/22/2019	1	188	188.1
Planned	7/22/2019	2	264	132.2
Planned	7/22/2019	35	519	14.8
Planned	7/22/2019	12	144	12.0
Planned	7/22/2019	1	80	80.4
Planned	7/22/2019	1	10	10.2
Planned	7/22/2019	12	114	9.5
Planned	7/22/2019	35	338	9.7
Planned	7/22/2019	1	10	10.3
Planned	7/22/2019	1	11	10.9
Planned	7/22/2019	1	9	9.1
Planned	7/22/2019	1	35	34.9
Planned	7/22/2019	4	344	86.0
Planned	7/22/2019	3	390	129.9
Planned	7/22/2019	1	15	15.3
Planned	7/22/2019	1	55	55.3
Planned	7/23/2019	1	113	112.6
Planned	7/23/2019	1	23	23.1
Planned	7/23/2019	3	402	134.0
Planned	7/23/2019	2	152	76.0
Planned	7/23/2019	2	77	38.6
Planned	7/23/2019	1	36	35.8
Planned	7/23/2019	1	21	21.2
Planned	7/23/2019	2	40	19.9
Planned	7/23/2019	1	169	168.7
Planned	7/23/2019	3	295	98.3
Planned	7/23/2019	3	205	68.2
Planned	7/23/2019	1	27	26.5
Planned	7/23/2019	3	133	44.3
Planned	7/23/2019	1	94	94.3
Customer Request	7/23/2019	1	83	83.0
Customer Request	7/23/2019	1	81	81.0
Customer Request	7/23/2019	11	396	36.0
Customer Request	7/23/2019	1	44	44.0
Customer Request	7/23/2019	1	100	100.0
Customer Request	7/23/2019	1	43	43.0
Planned	7/24/2019	2	66	32.9
Planned	7/24/2019	4	398	99.6
Planned	7/24/2019	8	327	40.9
Planned	7/24/2019	2	27	13.4
Planned	7/24/2019	4	192	48.0
Planned	7/24/2019	2	251	125.4
Planned	7/24/2019	1	126	125.6
Planned	7/24/2019	1	40	40.4
Planned	7/24/2019	6	241	40.2
Planned	7/24/2019	3	95	31.8
Planned	7/24/2019	3	38	12.7
Planned	7/24/2019	2	135	67.3

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	7/24/2019	1	101	100.9
Planned	7/24/2019	13	470	36.2
Planned	7/24/2019	8	362	45.2
Planned	7/24/2019	5	83	16.6
Planned	7/24/2019	1	25	25.3
Planned	7/24/2019	3	135	45.0
Planned	7/24/2019	1	15	15.1
Planned	7/24/2019	3	41	13.8
Planned	7/24/2019	2	30	14.8
Planned	7/24/2019	2	211	105.4
Planned	7/24/2019	2	157	78.6
Planned	7/24/2019	1	39	39.3
Planned	7/24/2019	5	140	28.0
Planned	7/24/2019	1	19	19.0
Planned	7/24/2019	3	59	19.7
Planned	7/24/2019	6	30	5.0
Planned	7/24/2019	1	26	26.0
Customer Request	7/24/2019	1	208	207.8
Planned	7/25/2019	8	283	35.4
Planned	7/25/2019	1	130	130.3
Planned	7/25/2019	21	845	40.2
Planned	7/25/2019	3	177	58.9
Planned	7/25/2019	4	364	91.0
Planned	7/25/2019	8	313	39.1
Planned	7/25/2019	40	13,792	344.8
Planned	7/25/2019	1	26	25.7
Planned	7/25/2019	5	66	13.2
Planned	7/25/2019	8	979	122.3
Planned	7/25/2019	2	258	129.2
Planned	7/25/2019	7	105	15.0
Planned	7/25/2019	1	47	46.7
Planned	7/25/2019	12	509	42.4
Planned	7/25/2019	8	208	26.0
Planned	7/25/2019	6	184	30.6
Planned	7/25/2019	6	200	33.4
Planned	7/25/2019	1	22	22.5
Planned	7/25/2019	1	17	17.3
Planned	7/25/2019	1	12	11.6
Planned	7/25/2019	1	91	91.2
Planned	7/25/2019	3	8	2.5
Customer Request	7/25/2019	1	115	114.8
Planned	7/26/2019	1	10	9.9
Planned	7/26/2019	3	56	18.6
Planned	7/26/2019	1	41	40.8
Planned	7/26/2019	1	6	5.6
Planned	7/26/2019	6	727	121.2
Planned	7/26/2019	5	95	19.1
Planned	7/26/2019	1	8	8.1

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	7/26/2019	1	21	20.6
Planned	7/26/2019	4	57	14.2
Planned	7/26/2019	3	67	22.3
Planned	7/26/2019	2	192	95.9
Planned	7/26/2019	12	125	10.4
Planned	7/26/2019	1	15	14.8
Planned	7/26/2019	1	31	31.0
Planned	7/26/2019	10	141	14.1
Planned	7/26/2019	12	1,107	92.2
Customer Request	7/26/2019	1	7	6.9
Customer Request	7/26/2019	3	59	19.8
Customer Request	7/27/2019	1	77	77.0
Customer Request	7/27/2019	1	41	41.0
Planned	7/28/2019	7	229	32.7
Planned	7/29/2019	5	890	178.0
Planned	7/29/2019	1	66	66.4
Planned	7/29/2019	73	721	9.9
Planned	7/29/2019	5	119	23.7
Planned	7/29/2019	4	1,068	267.0
Planned	7/29/2019	1	20	20.0
Planned	7/29/2019	1	27	27.0
Planned	7/29/2019	1	70	70.4
Planned	7/29/2019	3	201	67.0
Planned	7/29/2019	7	859	122.8
Planned	7/29/2019	1	228	227.9
Planned	7/29/2019	1	152	152.0
Planned	7/29/2019	1	68	68.1
Planned	7/29/2019	4	61	15.3
Planned	7/29/2019	1	68	68.3
Planned	7/29/2019	2	110	55.0
Planned	7/29/2019	1	27	27.2
Planned	7/29/2019	16	264	16.5
Planned	7/29/2019	17	382	22.5
Planned	7/29/2019	2	98	48.9
Planned	7/29/2019	6	418	69.6
Planned	7/29/2019	1	81	80.8
Planned	7/29/2019	1	15	14.5
Planned	7/29/2019	1	27	27.4
Planned	7/29/2019	5	1,064	212.8
Planned	7/29/2019	1	42	41.9
Planned	7/29/2019	2	92	46.1
Planned	7/29/2019	1	11	10.8
Planned	7/29/2019	14	458	32.7
Customer Request	7/29/2019	0	0	53.0
Customer Request	7/29/2019	1	45	45.0
Customer Request	7/29/2019	1	86	85.8
Planned	7/30/2019	1	47	47.5
Planned	7/30/2019	1	68	68.0

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	7/30/2019	1	42	42.0
Planned	7/30/2019	6	216	36.0
Planned	7/30/2019	1	44	43.5
Planned	7/30/2019	11	3,776	343.3
Planned	7/30/2019	2	758	379.0
Planned	7/30/2019	1	227	226.7
Planned	7/30/2019	2	57	28.3
Planned	7/30/2019	1	28	28.4
Planned	7/30/2019	5	100	20.0
Planned	7/30/2019	1	8	8.0
Planned	7/30/2019	2	217	108.5
Planned	7/30/2019	14	2,748	196.3
Planned	7/30/2019	4	85	21.3
Planned	7/30/2019	11	319	29.0
Planned	7/30/2019	2	74	37.0
Planned	7/30/2019	3	103	34.2
Planned	7/30/2019	1	88	88.0
Planned	7/30/2019	2	199	99.3
Planned	7/30/2019	1	139	138.6
Planned	7/30/2019	7	35	5.0
Planned	7/30/2019	14	322	23.0
Planned	7/30/2019	1	171	171.3
Planned	7/30/2019	2	71	35.5
Planned	7/30/2019	2	54	27.0
Planned	7/30/2019	3	82	27.5
Planned	7/31/2019	1	30	30.3
Planned	7/31/2019	1	22	22.3
Planned	7/31/2019	4	118	29.4
Planned	7/31/2019	6	131	21.9
	7/31/2019	2	71	
Planned				35.7
Planned	7/31/2019 7/31/2019	6 1	213	35.5
Planned			15	15.2
Planned	7/31/2019	6	683	113.8
Planned	7/31/2019	4	456	114.0
Planned	7/31/2019	1	236	235.6
Planned	7/31/2019	1	85	85.0
Planned	7/31/2019	1	197	196.7
Planned	7/31/2019	1	41	41.1
Planned	7/31/2019	4	76	18.9
Planned	7/31/2019	2	68	33.8
Planned	7/31/2019	1	23	23.2
Planned	7/31/2019	2	47	23.3
Planned	7/31/2019	2	36	18.1
Planned	7/31/2019	14	238	17.0
Planned	7/31/2019	2	68	34.0
Planned	7/31/2019	1	34	33.7
Planned	7/31/2019	2	67	33.4
Planned	7/31/2019	2	166	83.0

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	7/31/2019	7	111	15.8
Planned	7/31/2019	1	85	84.8
Planned	7/31/2019	1	83	82.9
Planned	7/31/2019	1	78	78.2
Planned	7/31/2019	1	145	145.4
Planned	7/31/2019	2	40	20.2
Planned	7/31/2019	3	57	19.1
Planned	7/31/2019	1	162	161.9
Planned	7/31/2019	2	132	66.0
Planned	7/31/2019	3	231	77.1
Planned	7/31/2019	1	91	90.9
Planned	7/31/2019	3	108	36.1
Customer Request	7/31/2019	0	0	16.1
Planned	8/1/2019	58	2,207	38.1
Planned	8/1/2019	1	26	26.1
Planned	8/1/2019	1	133	133.0
Planned	8/1/2019	1	73	72.5
Planned	8/1/2019	2	351	175.4
Planned	8/1/2019	5	515	103.0
Planned	8/1/2019	5	262	52.5
Planned	8/1/2019	1	109	108.8
Planned	8/1/2019	10	325	32.5
Planned	8/1/2019	1	336	336.2
Planned	8/1/2019	1	14	14.3
Planned	8/1/2019	6	498	83.0
Planned	8/1/2019	1	43	43.2
Planned	8/1/2019	5	140	28.0
Planned	8/1/2019	7	49	7.0
Planned	8/1/2019	1	42	42.2
Planned	8/1/2019	1	19	19.3
Planned	8/1/2019	1	12	12.4
Planned	8/1/2019	18	362	20.1
Planned	8/1/2019	5	355	71.0
		1	44	
Planned	8/1/2019 8/1/2019	2	165	44.0 82.3
Planned		1	24	ł
Planned	8/1/2019			23.8
Planned	8/2/2019	1	134	133.8
Planned	8/2/2019	111	2,459	22.2
Planned	8/2/2019	1	15	15.0
Planned	8/2/2019	1	12	12.3
Planned	8/2/2019	1	19	18.5
Planned	8/2/2019	6	978	163.1
Planned	8/2/2019	1	23	23.4
Planned	8/2/2019	3	47	15.5
Planned	8/2/2019	1	49	49.3
Planned	8/2/2019	2	208	104.2
Planned	8/2/2019	1	104	104.1
Planned	8/2/2019	1	57	57.0

Date	CI	CMI	
0/0/0010		CIVII	L-Bar
8/2/2019	3	71	23.8
8/2/2019	1	44	44.3
8/2/2019	2	51	25.4
8/2/2019	1	23	23.5
8/2/2019	61	10,788	176.9
8/2/2019	1	71	71.0
8/3/2019	1	34	34.5
8/5/2019	6	125	20.8
8/5/2019	4	125	31.2
8/5/2019	4	182	45.5
	1	51	51.0
	1	8	8.4
	3	159	53.0
			120.2
	4		120.9
			75.5
			43.3
			16.4
			14.4
			47.0
			6.5
			5.0
			34.4
			100.8
			62.7
			11.0
			89.2
			76.1
			88.0
			46.0
			89.1
			107.4
			8.0
			43.0
			29.1
		1	13.8
		+	20.4
			39.9
		1	32.0
			58.9
			120.0
		1	119.7
			91.0
		1	143.4
		1	128.7
			15.6
		1	67.9
			76.4
	8/2/2019 8/2/2019 8/2/2019 8/3/2019 8/5/2019	8/2/2019 1 8/2/2019 61 8/2/2019 1 8/3/2019 1 8/5/2019 4 8/5/2019 4 8/5/2019 1 8/5/2019 1 8/5/2019 3 8/5/2019 3 8/5/2019 3 8/5/2019 3 8/5/2019 3 8/5/2019 3 8/5/2019 3 8/5/2019 3 8/5/2019 3 8/5/2019 3 8/5/2019 4 8/5/2019 4 8/5/2019 4 8/5/2019 4 8/5/2019 4 8/5/2019 4 8/5/2019 1 8/6/2019 2 8/6/2019 2 8/6/2019 3 8/6/2019 3 8/6/2019 3 8/6/2019 3 8/6/2019 3 8/6/2019 3 8/6/2019 4	8/2/2019 1 23 8/2/2019 61 10,788 8/2/2019 1 71 8/3/2019 1 34 8/5/2019 6 125 8/5/2019 4 125 8/5/2019 4 182 8/5/2019 1 51 8/5/2019 3 159 8/5/2019 3 361 8/5/2019 3 361 8/5/2019 3 361 8/5/2019 3 361 8/5/2019 3 361 8/5/2019 3 361 8/5/2019 3 361 8/5/2019 3 361 8/5/2019 3 361 8/5/2019 3 361 8/5/2019 3 361 8/5/2019 4 173 8/5/2019 8 52 8/5/2019 1 101 8/5/2019 1 63 <t< td=""></t<>

Q13 – Distribution Excluded Outage Events					
Causation	Date	CI	CMI	L-Bar	
Planned	8/6/2019	5	356	71.2	
Planned	8/6/2019	3	72	23.9	
Planned	8/6/2019	1	17	17.0	
Planned	8/6/2019	4	279	69.8	
Planned	8/6/2019	3	66	22.0	
Planned	8/6/2019	3	435	145.1	
Planned	8/6/2019	6	755	125.8	
Planned	8/6/2019	1	72	71.7	
Planned	8/6/2019	2	34	16.9	
Planned	8/6/2019	1	40	40.4	
Planned	8/6/2019	1	9	8.9	
Planned	8/6/2019	1	97	96.8	
Planned	8/6/2019	1	22	21.6	
Planned	8/6/2019	1	26	25.6	
Planned	8/6/2019	3	220	73.3	
Planned	8/6/2019	11	382	34.7	
Customer Request	8/6/2019	1	22	22.0	
Planned	8/7/2019	5	446	89.2	
Planned	8/7/2019	5	400	80.1	
Planned	8/7/2019	4	328	81.9	
Planned	8/7/2019	1	144	143.6	
Planned	8/7/2019	3	231	77.0	
Planned	8/7/2019	5	337	67.3	
Planned	8/7/2019	3	73	24.2	
Planned	8/7/2019	1	72	71.9	
Planned	8/7/2019	1	73	72.8	
Planned	8/7/2019	5	70	14.0	
Planned	8/7/2019	144	7,078	49.2	
Planned	8/7/2019	4	40	9.9	
Planned	8/7/2019	1	92	92.3	
Planned	8/7/2019	10	901	90.1	
Planned	8/7/2019	1	33	33.0	
Planned	8/7/2019	1	118	118.1	
Planned	8/7/2019	1	84	84.1	
Planned	8/7/2019	1	48	48.1	
Planned	8/7/2019	1	49	49.3	
Planned	8/7/2019	4	391	97.7	
Planned	8/7/2019	8	713	89.2	
Planned	8/7/2019	10	661	66.1	
Planned	8/7/2019	4	24	6.0	
Planned	8/7/2019	3	179	59.6	
Planned	8/7/2019	1	34	34.5	
Planned	8/7/2019	6	582	97.0	
Planned	8/7/2019	3	282	93.9	
Planned	8/7/2019	4	115	28.9	
Planned	8/7/2019	1	225	225.1	
Planned	8/7/2019	1	56	55.8	
Planned	8/7/2019	8	488	61.0	

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	8/7/2019	1	98	98.5
Planned	8/7/2019	4	563	140.7
Planned	8/7/2019	1	138	138.0
Planned	8/7/2019	1	61	60.9
Planned	8/7/2019	2	46	22.9
Planned	8/7/2019	2	38	19.0
Planned	8/7/2019	1	122	121.6
Planned	8/7/2019	8	663	82.9
Planned	8/7/2019	4	505	126.3
Planned	8/7/2019	4	148	37.0
Planned	8/8/2019	3	99	33.0
Planned	8/8/2019	1	164	163.7
Planned	8/8/2019	3	51	17.0
Planned	8/8/2019	3	390	130.0
Planned	8/8/2019	3	246	82.0
Planned	8/8/2019	2	249	124.7
Planned	8/8/2019	1	42	42.1
Planned	8/8/2019	1	22	22.0
Planned	8/8/2019	2	287	143.3
Planned	8/8/2019	8	396	49.5
Planned	8/8/2019	4	440	110.0
Planned	8/8/2019	3	234	78.0
Planned	8/8/2019	130	10,864	83.6
Planned	8/8/2019	7	636	90.9
Planned	8/8/2019	6	360	60.0
Planned	8/8/2019	38	277	7.3
		4	396	99.0
Planned	8/8/2019	1		
Planned	8/8/2019	4	57	56.8
Planned	8/8/2019		148	37.1
Planned	8/8/2019	3	58	19.5
Planned	8/8/2019	1	77	76.9
Planned	8/8/2019	1	62	62.5
Planned	8/8/2019	1	23	23.0
Planned	8/8/2019	1	13	12.8
Planned	8/8/2019	2	60	29.9
Planned	8/8/2019	2	59	29.7
Planned	8/8/2019	5	689	137.7
Planned	8/8/2019	9	118	13.1
Planned	8/8/2019	1	19	18.6
Planned	8/8/2019	130	6,091	46.9
Planned	8/8/2019	2	116	58.0
Planned	8/8/2019	1	53	52.9
Planned	8/8/2019	1	37	37.3
Planned	8/8/2019	4	131	32.7
Planned	8/8/2019	4	84	21.1
Planned	8/8/2019	2	43	21.5
Planned	8/8/2019	2	119	59.3
Planned	8/8/2019	2	29	14.5

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	8/8/2019	1	50	49.5
Planned	8/8/2019	9	182	20.2
Planned	8/8/2019	1	51	51.2
Customer Request	8/8/2019	1	43	43.0
Customer Request	8/8/2019	1	49	49.0
Planned	8/9/2019	4	493	123.3
Planned	8/9/2019	1	127	127.5
Planned	8/9/2019	1	9	9.5
Planned	8/9/2019	1	81	81.0
Planned	8/9/2019	2	83	41.5
Planned	8/9/2019	136	25,534	187.8
Planned	8/9/2019	1	27	27.4
Planned	8/9/2019	4	187	46.6
Planned	8/9/2019	1	128	128.5
Customer Request	8/9/2019	1	99	99.0
Customer Request	8/9/2019	1	24	24.0
Planned	8/10/2019	1	11	10.6
Planned	8/10/2019	1	130	130.5
Planned	8/10/2019	2	61	30.7
Planned	8/10/2019	1	13	12.7
Planned	8/10/2019	4	77	19.3
Customer Request	8/10/2019	0	0	69.0
Customer Request	8/10/2019	1	53	53.0
Planned	8/11/2019	6	266	44.4
Planned	8/12/2019	3	324	108.0
Planned	8/12/2019	1	3	3.0
Planned	8/12/2019	3	102	34.0
Planned	8/12/2019	3	69	22.9
Planned	8/12/2019	3	231	77.0
Planned	8/12/2019	2	31	15.7
Planned	8/12/2019	2	102	51.0
Planned	8/12/2019	4	58	14.5
Planned	8/12/2019	2	178	89.0
Planned	8/12/2019	1	15	14.8
Planned	8/12/2019	5	128	25.7
Planned	8/12/2019	6	252	42.0
Planned	8/12/2019	1	2	2.0
Planned	8/12/2019	8	48	6.0
Planned	8/12/2019	1	17	17.1
Planned	8/12/2019	50	800	16.0
Planned	8/12/2019	3	42	14.0
Planned	8/12/2019	1	14	14.0
Planned	8/12/2019	1	30	30.0
Planned	8/12/2019	2	42	21.0
Planned	8/12/2019	1	14	14.0
Planned	8/12/2019	1	53	53.0
Planned	8/12/2019	4	16	4.0
Planned	8/12/2019	2	49	24.4

Q13 – I	Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar	
Planned	8/13/2019	1	36	36.0	
Planned	8/13/2019	1	27	27.0	
Planned	8/13/2019	1	59	59.1	
Planned	8/13/2019	1	97	97.2	
Planned	8/13/2019	1	15	15.0	
Planned	8/13/2019	1	7	7.4	
Planned	8/13/2019	1	29	29.3	
Planned	8/13/2019	5	545	109.0	
Planned	8/13/2019	3	87	29.0	
Planned	8/13/2019	5	470	93.9	
Planned	8/13/2019	7	112	16.0	
Planned	8/13/2019	2	32	16.0	
Planned	8/13/2019	1	41	40.9	
Planned	8/13/2019	3	54	18.0	
Planned	8/13/2019	1	14	14.0	
Planned	8/13/2019	4	79	19.7	
Planned	8/13/2019	8	189	23.7	
Planned	8/13/2019	1	34	34.0	
Planned	8/13/2019	7	86	12.3	
Planned	8/13/2019	1	11	11.4	
Planned	8/13/2019	3	331	110.3	
Planned	8/13/2019	7	154	22.0	
Planned	8/13/2019	5	55	11.0	
Planned	8/13/2019	1	104	103.8	
Planned	8/13/2019	1	61	61.4	
Planned	8/13/2019	1	47	46.9	
Planned	8/14/2019	3	478	159.2	
Planned	8/14/2019	6	462	77.0	
Planned	8/14/2019	1	53	52.6	
Planned	8/14/2019	18	2,425	134.7	
Planned	8/14/2019	1	30	30.0	
Planned	8/14/2019	5	102	20.5	
Planned	8/14/2019	1	15	15.1	
Planned	8/14/2019	2	130	65.0	
Planned	8/14/2019	1	106	106.0	
Planned	8/14/2019	1	35	35.0	
Planned		3	563		
Planned	8/14/2019 8/14/2019	1		187.6	
	8/14/2019	1	132 57	132.4	
Planned		1	61	57.0	
Planned	8/14/2019	13		60.8	
Planned	8/14/2019		216	16.7	
Planned	8/14/2019	2	172	86.0	
Planned	8/14/2019	1	28	28.4	
Planned	8/14/2019	4	344	86.0	
Planned	8/14/2019	7	685	97.8	
Planned	8/14/2019	2	169	84.5	
Planned	8/14/2019	1	56	55.8	
Planned	8/14/2019	1	15	14.9	

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	8/14/2019	2	168	84.0
Planned	8/14/2019	2	44	22.2
Planned	8/14/2019	6	248	41.4
Planned	8/14/2019	1	3	3.0
Planned	8/14/2019	1	36	36.0
Planned	8/14/2019	2	87	43.5
Planned	8/14/2019	8	96	12.0
Planned	8/14/2019	2	176	88.0
Planned	8/14/2019	1	79	79.0
Planned	8/14/2019	13	269	20.7
Planned	8/14/2019	3	567	188.9
Planned	8/14/2019	8	719	89.8
Planned	8/14/2019	2	26	13.0
Planned	8/14/2019	7	66	9.5
Planned	8/14/2019	2	362	180.9
Planned	8/14/2019	6	396	66.0
Planned	8/14/2019	6	406	67.7
Planned	8/14/2019	1	29	28.7
Planned	8/14/2019	2	104	52.0
Planned	8/14/2019	1	14	13.6
Planned	8/14/2019	1	5	5.0
Customer Request	8/14/2019	1	58	58.0
Customer Request	8/14/2019	0	0	58.0
Planned	8/15/2019	8	380	47.5
Planned	8/15/2019	1	14	13.9
Planned	8/15/2019	4	177	44.2
Planned	8/15/2019	1	36	36.0
Planned	8/15/2019	6	854	142.4
Planned	8/15/2019	1	127	127.0
Planned		1		
	8/15/2019	1	53	53.2 46.7
Planned	8/15/2019	8	47	ł
Planned	8/15/2019	1	438	54.8
Planned	8/15/2019	22	2,487	113.1
Planned	8/15/2019	2	404	201.8
Planned	8/15/2019	8	152	19.0
Planned	8/15/2019	5	814	162.8
Planned	8/15/2019	11	211	19.2
Planned	8/15/2019	1	18	17.7
Planned	8/15/2019	8	137	17.1
Planned	8/15/2019	2	132	66.1
Planned	8/15/2019	11	1,903	173.0
Planned	8/15/2019	5	705	141.1
Planned	8/15/2019	1	19	18.8
Planned	8/15/2019	1	13	12.7
Planned	8/15/2019	1	26	25.9
Planned	8/15/2019	22	553	25.1
Planned	8/15/2019	3	403	134.5
Planned	8/15/2019	1	100	100.3

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	8/15/2019	1	100	100.5
Planned	8/15/2019	1	38	38.3
Planned	8/15/2019	1	70	69.9
Planned	8/15/2019	1	49	49.2
Planned	8/15/2019	4	83	20.9
Planned	8/15/2019	4	885	221.3
Customer Request	8/15/2019	1	100	100.0
Customer Request	8/15/2019	0	0	73.9
Customer Request	8/15/2019	1	223	222.7
Customer Request	8/15/2019	1	141	141.0
Planned	8/16/2019	1	20	20.2
Planned	8/16/2019	1	23	23.4
Planned	8/16/2019	1	145	144.5
Planned	8/16/2019	3	335	111.7
Planned	8/16/2019	4	78	19.5
Planned	8/16/2019	1	19	18.6
Planned	8/16/2019	7	1,512	216.0
Planned	8/16/2019	1	216	216.1
Planned	8/16/2019	1	46	45.8
Planned	8/16/2019	1	20	19.7
Planned	8/16/2019	5	100	20.0
Planned	8/16/2019	1	24	24.0
Planned	8/16/2019	1	55	55.0
Planned	8/16/2019	1	83	82.9
		1	33	
Customer Request	8/16/2019	1	215	33.0 214.7
Customer Request	8/16/2019	1		
Planned	8/18/2019	1	21	20.7
Planned	8/19/2019	1	87	86.7
Planned	8/19/2019	4	465	116.3
Planned	8/19/2019	1	33	33.4
Planned	8/19/2019	1	50	50.5
Planned	8/19/2019	2	232	116.1
Planned	8/19/2019	3	99	33.1
Planned	8/19/2019	6	399	66.5
Planned	8/19/2019	2	154	77.1
Planned	8/19/2019	3	102	34.1
Planned	8/19/2019	1	125	124.6
Planned	8/19/2019	4	136	33.9
Planned	8/19/2019	4	147	36.7
Planned	8/19/2019	2	69	34.7
Planned	8/19/2019	1	35	35.2
Planned	8/19/2019	5	400	80.0
Planned	8/19/2019	2	292	146.1
Planned	8/19/2019	15	1,197	79.8
Planned	8/19/2019	5	1,701	340.2
Planned	8/19/2019	4	371	92.7
Planned	8/19/2019	1	41	41.4
Planned	8/19/2019	6	464	77.3

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	8/19/2019	1	95	95.3
Planned	8/19/2019	1	124	123.8
Planned	8/19/2019	6	714	119.0
Planned	8/19/2019	2	152	76.0
Planned	8/19/2019	2	208	104.1
Planned	8/19/2019	76	5,906	77.7
Planned	8/19/2019	2	169	84.7
Planned	8/19/2019	4	588	147.0
Planned	8/19/2019	2	55	27.6
Planned	8/19/2019	15	106	7.0
Customer Request	8/19/2019	778	61,203	78.7
Planned	8/20/2019	5	414	82.9
		3	414	
Planned Planned	8/20/2019 8/20/2019	1	139	138.0 138.6
Planned		1	139	138.7
	8/20/2019 8/20/2019	3		
Planned	8/20/2019	2	541	180.2
Planned			190	95.0
Planned	8/20/2019	1	17	16.9
Planned	8/20/2019	4	23	5.8
Planned	8/20/2019	1	88	87.5
Planned	8/20/2019	5	249	49.9
Planned	8/20/2019	1	35	35.0
Planned	8/20/2019	1	45	45.4
Planned	8/20/2019	1	49	49.0
Planned	8/20/2019	33	399	12.1
Planned	8/20/2019	1	8	8.0
Planned	8/20/2019	10	100	10.0
Planned	8/20/2019	6	404	67.4
Planned	8/20/2019	6	159	26.5
Planned	8/20/2019	3	61	20.5
Planned	8/20/2019	2	65	32.5
Planned	8/20/2019	3	150	49.9
Planned	8/20/2019	3	82	27.4
Planned	8/20/2019	4	20	5.0
Customer Request	8/20/2019	1	55	55.0
Customer Request	8/20/2019	0	0	66.0
Planned	8/21/2019	6	607	101.2
Planned	8/21/2019	4	101	25.3
Planned	8/21/2019	2	379	189.5
Planned	8/21/2019	7	517	73.8
Planned	8/21/2019	14	233	16.6
Planned	8/21/2019	1	154	153.5
Planned	8/21/2019	1	87	86.6
Planned	8/21/2019	4	221	55.3
Planned	8/21/2019	5	222	44.4
Planned	8/21/2019	55	2,530	46.0
Planned	8/21/2019	1	49	48.6
riaiiileu	0/21/2019	1	43	40.0

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	8/21/2019	1	30	30.2
Planned	8/21/2019	1	38	37.8
Planned	8/21/2019	3	246	81.8
Planned	8/21/2019	2	21	10.5
Planned	8/21/2019	1	70	69.8
Planned	8/21/2019	1	15	15.1
Planned	8/21/2019	12	142	11.9
Planned	8/21/2019	3	223	74.4
Planned	8/21/2019	1	12	11.6
Planned	8/21/2019	3	234	78.0
Planned	8/21/2019	5	257	51.4
Planned	8/21/2019	3	136	45.4
Planned	8/21/2019	3	262	87.2
Planned	8/21/2019	4	458	114.5
Planned	8/21/2019	1	369	369.4
Planned	8/21/2019	1	86	85.8
Planned	8/21/2019	1	24	24.0
Planned	8/21/2019	1	58	58.0
Planned	8/21/2019	3	61	20.2
Planned	8/21/2019	3	30	10.1
Planned	8/21/2019	14	217	15.5
Customer Request	8/21/2019	1	70	69.6
Planned	8/22/2019	41	2,542	62.0
Planned	8/22/2019	5	687	137.3
Planned	8/22/2019	4	28	7.0
Planned	8/22/2019	1	15	15.0
Planned	8/22/2019	1	335	334.7
Planned	8/22/2019	1	47	47.0
Planned	8/22/2019	2	156	78.0
Planned	8/22/2019	1	70	69.7
Planned	8/22/2019	3	1,058	352.8
Planned	8/22/2019	1	31	31.5
Planned	8/22/2019	1	27	26.9
Planned	8/22/2019	17	707	41.6
Planned	8/22/2019	1	17	17.2
Planned	8/22/2019	6	108	18.1
Planned	8/22/2019	1	27	27.4
Planned	8/22/2019	17	1,590	93.5
Planned	8/22/2019	7	146	20.8
Planned	8/22/2019	1	80	80.3
Planned	8/22/2019	1	24	23.8
Planned	8/22/2019	13	78	6.0
Planned	8/22/2019	1	11	11.0
Customer Request	8/22/2019	1	108	108.0
Planned	8/23/2019	1	21	21.0
Planned	8/23/2019	1	228	228.1
Planned	8/23/2019	1	24	24.4
Planned	8/23/2019	1	24	24.5

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	8/23/2019	8	1,062	132.8
Planned	8/23/2019	4	451	112.9
Planned	8/23/2019	1	44	44.0
Planned	8/23/2019	3	115	38.2
Planned	8/23/2019	1	80	80.5
Planned	8/23/2019	4	116	28.9
Planned	8/23/2019	4	220	55.0
Planned	8/23/2019	1	18	17.8
Planned	8/23/2019	93	3,684	39.6
Planned	8/23/2019	2	33	16.4
Customer Request	8/23/2019	1	31	31.0
Customer Request	8/23/2019	1	78	77.9
Planned	8/24/2019	2	274	137.0
Planned	8/25/2019	3	168	56.0
Planned	8/25/2019	2	104	52.0
Planned	8/25/2019	3	66	22.0
Customer Request	8/25/2019	1	68	68.0
Customer Request	8/25/2019	0	0	77.0
Planned	8/26/2019	1	38	38.0
Planned	8/26/2019	2	158	79.0
Planned	8/26/2019	1	18	18.0
Planned	8/26/2019	7	365	52.2
Planned	8/26/2019	3	69	23.2
Planned	8/26/2019	1	46	46.0
Planned	8/26/2019	1	43	43.4
Planned	8/26/2019	3	170	56.5
Planned	8/26/2019	5	40	8.0
Planned	8/26/2019	1	8	8.0
Planned	8/26/2019	4	84	21.0
Planned	8/26/2019	1	5	5.0
Planned	8/26/2019	1	7	7.0
Planned	8/26/2019	3	42	14.0
Planned	8/26/2019	1	20	20.0
Planned	8/26/2019	1	136	136.3
Planned	8/26/2019	4	176	44.0
Planned	8/26/2019	1	19	19.0
Planned	8/26/2019	1	35	35.0
Planned	8/26/2019	1	38	38.0
Planned	8/26/2019	4	52	13.0
Customer Request	8/26/2019	1	66	66.0
Customer Request	8/26/2019	1	34	34.0
Customer Request	8/26/2019	1	134	134.0
Customer Request	8/26/2019	1	45	45.0
Customer Request	8/26/2019	1	13	13.0
Customer Request	8/26/2019	1	116	116.0
Customer Request	8/26/2019	1	76	76.0
Planned	8/27/2019	4	357	89.2
Planned	8/27/2019	1	172	172.0

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	8/27/2019	1	33	33.0
Planned	8/27/2019	1	354	354.3
Planned	8/27/2019	2	164	82.0
Planned	8/27/2019	3	549	183.0
Planned	8/27/2019	1	24	24.0
Planned	8/27/2019	7	315	45.0
Planned	8/27/2019	5	359	71.9
Planned	8/27/2019	1	162	162.0
Planned	8/27/2019	1	99	99.3
Planned	8/27/2019	2	318	159.0
Planned	8/27/2019	4	144	36.0
Planned	8/27/2019	2	222	111.0
Planned	8/27/2019	1	106	106.0
Planned	8/27/2019	1	106	106.0
Planned	8/27/2019	1	38	38.0
Planned	8/27/2019	4	52	13.0
Planned	8/27/2019	1	88	87.6
Planned	8/27/2019	1	48	48.0
Planned	8/27/2019	1	372	371.7
Planned	8/27/2019	3	492	164.0
Planned	8/27/2019	6	288	48.0
Planned	8/27/2019	7	553	79.0
Planned	8/27/2019	7	63	9.0
Planned	8/27/2019	3	21	7.0
Planned	8/27/2019	2	144	71.8
Planned	8/27/2019	7	651	93.0
Planned	8/27/2019	3	228	76.0
Planned	8/27/2019	5	100	20.0
Planned	8/27/2019	5	255	51.0
Planned	8/27/2019	3	183	61.0
Planned	8/27/2019	3	114	38.0
Planned	8/27/2019	16	1,440	90.0
Planned	8/27/2019	7	168	24.0
Planned	8/27/2019	5	310	62.0
Planned	8/27/2019	3	81	27.0
Planned	8/27/2019	7	189	27.0
Planned	8/27/2019	5	215	43.0
Customer Request	8/27/2019	1	125	125.0
Planned	8/28/2019	1	7	7.0
Planned	8/28/2019	54	486	9.0
Planned	8/28/2019	3	39	13.0
Planned	8/28/2019	1	17	17.0
Planned	8/28/2019	1	24	24.0
Planned	8/28/2019	11	264	24.0
Planned	8/28/2019	2	110	55.0
Planned	8/28/2019	1	22	22.0
Planned	8/28/2019	7	154	22.0
Planned	8/28/2019	4	360	90.0

Q13 – I	Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar	
Planned	8/28/2019	2	38	19.0	
Planned	8/28/2019	8	16	2.0	
Planned	8/28/2019	3	6	2.0	
Planned	8/28/2019	9	72	8.0	
Planned	8/28/2019	4	12	3.0	
Planned	8/28/2019	5	695	139.0	
Planned	8/28/2019	1	14	14.0	
Planned	8/28/2019	3	324	108.0	
Planned	8/28/2019	4	336	84.0	
Planned	8/28/2019	8	552	69.0	
Planned	8/28/2019	1	93	93.0	
Planned	8/28/2019	3	516	172.0	
Planned	8/28/2019	1	146	146.0	
Planned	8/28/2019	54	216	4.0	
Planned	8/28/2019	3	207	69.0	
Planned	8/28/2019	72	512	7.1	
Planned	8/28/2019	5	35	7.0	
Planned	8/28/2019	1	9	9.0	
Planned	8/28/2019	4	28	7.0	
Planned	8/28/2019	5	265	53.0	
Planned	8/28/2019	1	229	229.0	
Planned	8/28/2019	1	38	38.0	
Planned	8/28/2019	1	37	37.0	
Planned	8/28/2019	6	696	116.0	
Planned	8/28/2019	72	2,905	40.4	
Planned	8/28/2019	4	341	85.3	
	8/28/2019	1	163	162.8	
Planned					
Planned	8/28/2019	1 1	37	37.0	
Planned	8/28/2019		118	118.0	
Planned	8/28/2019	3	354	117.9	
Planned	8/28/2019	50	1,217	24.3	
Planned	8/28/2019	3	71	23.6	
Planned	8/28/2019	7	164	23.5	
Planned	8/28/2019	1	9	8.5	
Planned	8/29/2019	1	69	69.0	
Planned	8/29/2019	1	31	31.0	
Planned	8/29/2019	1	271	271.0	
Planned	8/29/2019	4	620	155.0	
Planned	8/29/2019	1	8	8.0	
Planned	8/29/2019	1	14	14.0	
Planned	8/29/2019	2	64	32.0	
Planned	8/29/2019	4	484	121.0	
Planned	8/29/2019	1	43	43.0	
Planned	8/29/2019	1	61	60.6	
Planned	8/29/2019	8	1,353	169.1	
Planned	8/29/2019	1	10	10.0	
Planned	8/29/2019	3	72	24.0	
Planned	8/29/2019	3	39	13.0	

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	8/29/2019	4	136	34.0
Planned	8/29/2019	1	34	34.0
Planned	8/29/2019	9	261	29.0
Planned	8/29/2019	4	296	74.0
Planned	8/29/2019	26	1,113	42.8
Planned	8/29/2019	5	71	14.2
Customer Request	8/29/2019	1	15	15.3
Planned	8/30/2019	2	36	18.0
Planned	8/30/2019	6	54	9.0
Planned	8/30/2019	1	16	16.0
Planned	8/30/2019	1	131	131.0
Planned	8/30/2019	1	205	205.0
Planned	8/30/2019	2	218	109.0
Planned	8/30/2019	4	212	53.0
Planned	8/30/2019	1	17	17.0
Planned	8/30/2019	5	463	92.7
Planned	8/30/2019	1	43	43.4
Planned	8/30/2019	3	75	25.0
Planned	8/30/2019	45	4,095	91.0
Planned	8/30/2019	1	33	33.0
Planned	8/30/2019	102	1,428	14.0
Planned	8/30/2019	1	113	113.0
Planned	8/30/2019	5	174	34.9
Planned	8/30/2019	1	2	2.0
Planned	8/30/2019	1	57	57.0
Planned	8/30/2019	3	42	14.0
Planned	8/30/2019	9	9	1.0
Planned	8/31/2019	1	6	6.0
Planned	8/31/2019	3	86	28.8
Customer Request	8/31/2019	1	57	57.0
Planned	9/1/2019	1	36	35.6
Customer Request	9/1/2019	1	48	48.0
Planned	9/3/2019	8	940	117.5
	9/3/2019	9	158	17.6
Planned	9/3/2019	3	136	45.5
Planned	9/3/2019	2	17	8.3
Planned		2		
Planned	9/3/2019		20	10.0
Planned	9/3/2019	3	336	111.9
Planned	9/3/2019	5	52	10.3
Planned	9/3/2019	1	31	31.1
Planned	9/3/2019	1	10	10.0
Planned	9/3/2019	2	15	7.3
Planned	9/3/2019	1	81	81.5
Planned	9/3/2019	1	8	7.5
Planned	9/3/2019	4	248	61.9
Planned	9/3/2019	17	225	13.2
Planned	9/3/2019	4	35	8.9
Planned	9/3/2019	4	94	23.5

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	9/3/2019	7	93	13.2
Planned	9/3/2019	173	1,845	10.7
Planned	9/3/2019	166	2,014	12.1
Planned	9/3/2019	4	91	22.7
Planned	9/3/2019	1	86	86.0
Customer Request	9/3/2019	1	21	20.7
Planned	9/4/2019	1	20	20.1
Planned	9/4/2019	1	85	85.1
Planned	9/4/2019	3	28	9.5
Planned	9/4/2019	2	71	35.7
Planned	9/4/2019	1	68	67.5
Planned	9/4/2019	4	44	11.1
Planned	9/4/2019	1	37	36.7
Planned	9/4/2019	1	9	8.9
Planned	9/4/2019	2	10	5.0
Planned	9/4/2019	6	140	23.4
Planned	9/4/2019	1	22	21.5
Planned	9/4/2019	1	27	26.8
Planned	9/4/2019	5	37	7.5
Planned	9/4/2019	5	74	14.9
Planned	9/4/2019	3	99	33.0
		1	97	
Planned	9/4/2019	ł		97.0
Planned	9/4/2019	9	529	58.7
Planned	9/4/2019	1	179	179.0
Customer Request	9/4/2019	1	70	70.0
Planned	9/5/2019	6	450	75.0
Planned	9/5/2019	12	609	50.8
Planned	9/5/2019	1	29	29.0
Planned	9/5/2019	6	108	18.0
Planned	9/5/2019	4	248	62.0
Planned	9/5/2019	49	3,626	74.0
Planned	9/5/2019	5	395	79.0
Planned	9/5/2019	1	11	11.0
Planned	9/5/2019	10	50	5.0
Planned	9/5/2019	1	23	23.0
Planned	9/5/2019	7	112	16.0
Planned	9/5/2019	1	16	16.0
Planned	9/5/2019	5	630	126.0
Planned	9/6/2019	3	129	43.0
Planned	9/6/2019	1	315	315.0
Planned	9/6/2019	7	595	85.0
Planned	9/6/2019	1	86	86.0
Planned	9/6/2019	7	91	13.0
Planned	9/6/2019	1	10	10.0
Planned	9/6/2019	1	8	8.0
Planned	9/6/2019	3	15	5.0
Planned	9/6/2019	1	25	25.0
Planned	9/6/2019	4	112	28.0

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Customer Request	9/6/2019	71	355	5.0
Customer Request	9/6/2019	1	5	5.3
Customer Request	9/6/2019	24	0	0.0
Planned	9/7/2019	71	71	1.0
Planned	9/7/2019	2	8	4.0
Planned	9/7/2019	3	639	213.0
Customer Request	9/7/2019	1	118	118.3
Planned	9/8/2019	1	123	123.0
Planned	9/9/2019	1	82	82.0
Planned	9/9/2019	2	176	88.0
Planned	9/9/2019	2	69	34.5
Planned	9/9/2019	6	90	15.0
Planned	9/9/2019	1	36	36.0
Planned	9/9/2019	4	156	39.0
Planned	9/9/2019	4	84	21.0
Planned	9/9/2019	3	327	109.0
Planned	9/9/2019	1	6	6.0
Planned	9/9/2019	3	99	33.0
Planned	9/9/2019	5	30	6.0
Planned	9/9/2019	4	16	4.0
Planned	9/9/2019	1	34	34.0
Planned	9/9/2019	3	21	7.0
Planned	9/9/2019	2	8	4.0
Planned	9/9/2019	1	3	3.0
Planned	9/9/2019	2	65	32.4
Planned	9/9/2019	4	16	4.0
Planned	9/9/2019	4	136	34.0
Planned	9/9/2019	1	74	74.0
Planned	9/9/2019	1	16	15.7
Planned	9/9/2019	7	553	79.0
Planned	9/9/2019	5	20	4.0
Planned	9/9/2019	1	70	69.7
Customer Request	9/9/2019	0	0	68.0
Planned	9/10/2019	1	28	28.0
Planned	9/10/2019	3	231	77.0
Planned	9/10/2019	4	336	84.0
Planned	9/10/2019	1	39	39.0
Planned	9/10/2019	2	52	26.0
Planned	9/10/2019	5	70	14.0
Planned	9/10/2019	3	192	64.0
Planned	9/10/2019	1	58	58.0
Planned	9/10/2019	2	338	169.0
Planned	9/10/2019	3	501	167.0
Planned	9/10/2019	2	62	31.0
Planned	9/10/2019	3	132	44.0
Planned	9/10/2019	1	9	9.0
Planned	9/10/2019	5	115	23.0
Planned	9/10/2019	5	95	19.0

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	9/10/2019	1	74	74.0
Planned	9/10/2019	4	320	80.0
Planned	9/10/2019	2	203	101.4
Planned	9/10/2019	63	252	4.0
Planned	9/10/2019	4	733	183.3
Planned	9/10/2019	3	15	5.0
Planned	9/10/2019	5	40	8.0
Planned	9/10/2019	1	19	18.8
Planned	9/10/2019	1	5	5.0
Planned	9/10/2019	1	55	55.0
Planned	9/10/2019	3	223	74.5
Planned	9/10/2019	1	29	29.0
Planned	9/10/2019	6	1,050	175.0
Planned	9/10/2019	6	1,506	251.0
Planned	9/11/2019	1	59	59.0
Planned	9/11/2019	2	28	14.0
Planned	9/11/2019	3	351	117.0
Planned	9/11/2019	6	18	3.0
Planned	9/11/2019	4	472	118.0
Planned	9/11/2019	4	176	44.0
Planned	9/11/2019	1	33	33.0
Planned	9/11/2019	3	474	158.0
Planned	9/11/2019	1	3	3.0
Planned	9/11/2019	1	9	9.0
Planned	9/11/2019	5	340	68.0
Planned	9/11/2019	5	505	101.0
Planned	9/11/2019	1	54	54.0
Planned	9/11/2019	1	22	22.0
Planned	9/11/2019	4	52	13.0
Planned	9/11/2019	2	60	30.0
Planned	9/11/2019	4	12	3.0
Planned	9/11/2019	1	31	31.0
Planned	9/11/2019	4	598	149.6
Planned	9/11/2019	1	13	13.0
Planned	9/11/2019	1	25	25.0
Planned	9/11/2019	3	399	133.0
Planned	9/11/2019	1	122	122.0
Customer Request	9/11/2019	1	8	7.8
Customer Request	9/11/2019	1	171	170.5
Customer Request	9/11/2019	1	94	94.0
Planned	9/12/2019	3	55	18.3
Planned	9/12/2019	1	112	112.5
Planned	9/12/2019	1	42	42.0
Planned	9/12/2019	1	53	53.0
Planned	9/12/2019	3	123	41.0
Planned	9/12/2019	5	265	53.0
Planned	9/12/2019	1	108	108.0
Planned	9/12/2019	1	46	46.0

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	9/12/2019	3	384	128.0
Planned	9/12/2019	7	133	19.0
Planned	9/12/2019	1	28	28.0
Planned	9/12/2019	5	30	6.0
Planned	9/12/2019	2	20	10.0
Planned	9/12/2019	12	312	26.0
Planned	9/12/2019	3	123	41.0
Planned	9/12/2019	10	500	50.0
Planned	9/12/2019	3	15	5.0
Planned	9/12/2019	6	48	8.0
Planned	9/12/2019	5	40	8.0
Planned	9/12/2019	6	48	8.0
Planned	9/12/2019	5	154	30.7
Planned	9/12/2019	5	40	8.0
Planned	9/12/2019	4	32	8.0
Planned	9/12/2019	4	32	8.0
Planned	9/12/2019	4	32	8.0
Planned	9/12/2019	3	24	8.0
Planned	9/12/2019	1	10	10.0
Planned	9/12/2019	1	110	110.0
Planned	9/12/2019	1	19	19.0
Customer Request	9/12/2019	1	45	45.0
Customer Request	9/12/2019	1	50	50.5
Planned	9/13/2019	1	7	7.3
Planned	9/13/2019	5	80	16.0
Planned	9/13/2019	3	15	5.0
Planned	9/13/2019	4	132	33.0
Planned	9/13/2019	7	49	7.0
Planned	9/13/2019	7	77	11.0
Planned	9/13/2019	1	1	1.0
Planned	9/13/2019	57	2,679	47.0
Planned	9/13/2019	2	8	4.0
Customer Request	9/13/2019	1	105	105.3
Customer Request	9/13/2019	0	0	113.2
Customer Request	9/13/2019	1	54	54.4
Planned	9/14/2019	1	26	26.0
Planned	9/14/2019	4	104	26.0
Planned	9/14/2019	4	48	12.0
Planned	9/14/2019	4	64	16.0
Planned	9/14/2019	1	81	81.4
Planned	9/15/2019	3	32	10.7
Planned	9/15/2019	2	25	12.3
Customer Request	9/15/2019	0	0	60.0
Customer Request	9/15/2019	0	0	9.3
Customer Request	9/15/2019	1	75	75.0
Planned	9/16/2019	1	6	6.3
Planned	9/16/2019	1	20	20.4
Planned	9/16/2019	1	16	15.8

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	9/16/2019	2	493	246.3
Planned	9/16/2019	5	782	156.4
Planned	9/16/2019	1	56	55.9
Planned	9/16/2019	7	1,017	145.3
Planned	9/16/2019	4	187	46.8
Planned	9/16/2019	3	220	73.4
Planned	9/16/2019	1	47	47.3
Planned	9/16/2019	13	482	37.1
Planned	9/16/2019	4	116	29.1
Planned	9/16/2019	1	37	36.6
Planned	9/16/2019	3	50	16.7
Planned	9/16/2019	2	108	53.8
Planned	9/16/2019	8	88	11.0
Planned	9/16/2019	1	87	87.4
Planned	9/16/2019	1	44	43.7
Planned	9/16/2019	4	45	11.1
Planned	9/16/2019	1	11	11.2
Planned	9/16/2019	8	71	8.9
Planned	9/16/2019	1	18	18.3
Customer Request	9/16/2019	14	95	6.8
· · · · · · · · · · · · · · · · · · ·		2	239	
Planned	9/17/2019			119.5
Planned	9/17/2019	4	469	117.3
Planned	9/17/2019	1	19	18.9
Planned	9/17/2019	4	292	72.9
Planned	9/17/2019	1	28	28.0
Planned	9/17/2019	1	98	97.9
Planned	9/17/2019	1	28	27.7
Planned	9/17/2019	1	33	33.4
Planned	9/17/2019	1	97	97.1
Planned	9/17/2019	4	361	90.2
Planned	9/17/2019	7	850	121.4
Planned	9/17/2019	2	139	69.4
Planned	9/17/2019	1	86	85.5
Planned	9/17/2019	4	353	88.3
Planned	9/17/2019	1	78	78.1
Planned	9/17/2019	3	246	82.0
Planned	9/17/2019	4	116	29.1
Planned	9/17/2019	1	75	75.1
Planned	9/17/2019	293	5,489	18.7
Planned	9/17/2019	6	649	108.2
Planned	9/17/2019	3	136	45.3
Planned	9/17/2019	3	269	89.7
Planned	9/17/2019	1	13	12.9
Planned	9/17/2019	1	190	189.8
Planned	9/17/2019	1	29	29.4
Planned	9/17/2019	1	38	38.4
Planned	9/17/2019	1	50	50.3
Planned	9/17/2019	6	206	34.3

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	9/17/2019	3	147	49.1
Planned	9/17/2019	1	120	119.7
Planned	9/17/2019	3	314	104.7
Planned	9/17/2019	4	144	35.9
Planned	9/17/2019	1	67	66.6
Planned	9/17/2019	4	179	44.8
Planned	9/17/2019	5	451	90.2
Planned	9/17/2019	16	299	18.7
Planned	9/17/2019	4	111	27.9
Planned	9/17/2019	1	29	28.6
Customer Request	9/17/2019	1	24	24.1
Customer Request	9/17/2019	2	646	323.1
Planned	9/18/2019	2	48	24.0
Planned	9/18/2019	1	156	156.0
Planned	9/18/2019	3	212	70.7
Planned	9/18/2019	5	537	107.4
Planned	9/18/2019	21	1,728	82.3
Planned	9/18/2019	4	54	13.5
Planned	9/18/2019	6	342	57.0
Planned	9/18/2019	1	9	9.4
Planned	9/18/2019	1	10	9.6
Planned	9/18/2019	1	9	8.5
Planned	9/18/2019	9	628	69.8
Planned	9/18/2019	6	169	28.2
Planned	9/18/2019	1	174	174.2
Planned	9/18/2019	1	149	149.3
Planned	9/18/2019	15	335	22.3
Planned	9/18/2019	7	615	87.8
Planned	9/18/2019	2	279	139.4
Planned	9/18/2019	4	222	55.4
Planned	9/18/2019	6	2,419	403.2
Planned	9/18/2019	2	442	221.0
Planned	9/18/2019	9	897	99.7
Planned	9/18/2019	6	57	9.5
Planned	9/18/2019	2	44	22.1
Planned	9/18/2019	1	27	27.4
Planned	9/18/2019	15	778	51.9
Planned	9/18/2019	1	29	28.6
Planned	9/18/2019	2	15	7.6
Planned	9/18/2019	2	28	13.8
Planned	9/18/2019	2	27	13.7
Planned	9/18/2019	71	1,280	18.0
Planned	9/18/2019	1	21	20.5
Planned	9/18/2019	6	168	28.0
Planned	9/18/2019	5	82	16.4
Planned	9/18/2019	1	19	19.3
Planned	9/18/2019	7	154	22.0
Planned	9/18/2019	1	201	200.8

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	9/18/2019	1	17	17.0
Planned	9/18/2019	1	31	30.9
Planned	9/18/2019	4	415	103.6
Planned	9/18/2019	9	943	104.7
Planned	9/18/2019	1	40	39.9
Planned	9/18/2019	3	311	103.7
Planned	9/18/2019	1	31	31.1
Planned	9/18/2019	1	16	16.2
Planned	9/18/2019	9	1,682	186.9
Planned	9/18/2019	1	188	187.5
Planned	9/18/2019	3	203	67.8
Planned	9/19/2019	1	12	12.0
Planned	9/19/2019	28	485	17.3
Planned	9/19/2019	3	172	57.5
Planned	9/19/2019	4	208	52.0
Customer Request	9/19/2019	1	66	66.0
Planned	9/20/2019	8	923	115.4
Planned	9/20/2019	1	13	13.4
Planned	9/20/2019	1	67	66.6
Planned	9/20/2019	1	22	22.0
Planned	9/20/2019	1	8	8.2
Planned	9/20/2019	1	53	53.2
Planned	9/20/2019	1	11	10.6
Planned	9/20/2019	1	99	99.1
Planned	9/20/2019	1	11	10.6
Planned	9/20/2019	2	87	43.7
Planned	9/20/2019	2	55	27.4
Planned	9/20/2019	3	53	17.7
Planned	9/20/2019	1	61	60.5
Planned	9/20/2019	78	1,638	21.0
Planned	9/21/2019	4	56	14.0
Planned	9/23/2019	4	52	13.0
Planned	9/23/2019	4	520	130.0
Planned	9/23/2019	1	109	109.0
Planned	9/23/2019	1	71	71.0
Planned	9/23/2019	3	87	29.0
Planned	9/23/2019	1	27	27.0
Planned	9/23/2019	4	628	157.0
Planned	9/23/2019	4	208	52.0
Planned	9/23/2019	7	266	38.0
Planned	9/23/2019	10	310	31.0
Planned	9/23/2019	4	132	33.0
Planned	9/23/2019	3	33	11.0
Customer Request	9/23/2019	1	9	9.0
Planned	9/23/2019	17	1,003	59.0
Planned	9/23/2019	7	672	96.0
Planned	9/23/2019	4	216	54.0
Planned	9/23/2019	1	21	21.0

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	9/23/2019	3	117	39.0
Planned	9/24/2019	2	414	207.0
Planned	9/24/2019	5	130	26.0
Planned	9/24/2019	2	152	76.0
Planned	9/24/2019	2	16	8.0
Planned	9/24/2019	2	162	81.0
Planned	9/24/2019	2	26	13.0
Planned	9/24/2019	1	9	9.0
Planned	9/24/2019	4	216	54.0
Planned	9/24/2019	4	40	10.0
Planned	9/24/2019	1	13	13.0
Planned	9/24/2019	4	248	62.0
Planned	9/24/2019	4	356	89.0
Planned	9/24/2019	1	573	573.0
Planned	9/25/2019	1	1	1.0
Planned	9/25/2019	4	224	56.0
Planned	9/25/2019	8	160	20.0
Planned	9/25/2019	3	174	58.0
Planned	9/25/2019	1	27	27.0
Planned	9/25/2019	3	294	98.0
Planned	9/25/2019	1	182	182.0
Planned	9/25/2019	4	24	6.0
Planned	9/25/2019	2	116	58.0
Planned	9/25/2019	1	34	34.0
Planned		7	427	
Planned	9/25/2019	5		61.0
	9/25/2019		155	31.0
Planned	9/25/2019	1	235	235.0
Planned	9/25/2019	4	176	44.0
Planned	9/26/2019	4	328	82.0
Planned	9/26/2019	6	726	121.0
Planned	9/26/2019	3	57	19.0
Planned	9/26/2019	2	68	34.0
Planned	9/26/2019	1	39	39.0
Planned	9/27/2019	5	205	41.0
Planned	9/27/2019	5	95	19.0
Planned	9/27/2019	2	382	191.0
Planned	9/27/2019	5	55	11.0
Planned	9/30/2019	2	236	118.0
Planned	9/30/2019	1	29	29.0
Planned	9/30/2019	4	320	80.0
Planned	9/30/2019	4	644	161.0
Planned	9/30/2019	2	126	63.0
Planned	10/1/2019	3	237	79.0
Planned	10/1/2019	5	440	88.0
Planned	10/1/2019	3	72	24.0
Planned	10/1/2019	20	220	11.0
Planned	10/1/2019	1	200	200.0
Planned	10/1/2019	5	570	114.0

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	10/1/2019	4	256	64.0
Planned	10/1/2019	4	64	16.0
Planned	10/2/2019	4	52	13.0
Planned	10/2/2019	4	1,432	358.0
Planned	10/2/2019	4	100	58.0
Planned	10/3/2019	6	174	29.0
Planned	10/3/2019	4	352	88.0
Planned	10/3/2019	4	328	82.0
Planned	10/3/2019	4	132	33.0
Planned	10/3/2019	2	84	42.0
Planned	10/3/2019	2	262	131.0
Planned	10/3/2019	4	164	41.0
Planned	10/3/2019	4	332	83.0
Planned	10/3/2019	1	58	58.0
Planned	10/3/2019	1	75	75.0
Planned	10/3/2019	5	645	129.0
Planned	10/3/2019	4	428	107.0
Planned	10/3/2019	1	91	91.0
Planned	10/3/2019	11	88	8.0
Planned	10/4/2019	3	435	145.0
Planned	10/4/2019	16	368	23.0
Planned	10/4/2019	3	339	113.0
Planned	10/4/2019	8	408	51.0
Planned	10/4/2019	4	128	32.0
Planned	10/4/2019	12	324	27.0
Planned	10/4/2019	4	96	24.0
Planned	10/4/2019	4	20	5.0
Planned	10/4/2019	3	6	2.0
Planned	10/7/2019	2	198	99.0
Planned	10/7/2019	1	81	81.0
Planned	10/7/2019	2	12	6.0
Planned	10/7/2019	1	96	96.0
Planned	10/7/2019	6	156	26.0
Planned	10/7/2019	2	12	6.0
Planned	10/7/2019	5	500	100.0
Planned	10/7/2019	3	18	6.0
Planned	10/7/2019	4	48	12.0
Planned	10/7/2019	4	284	71.0
Planned	10/8/2019	3	483	161.0
Planned	10/8/2019	3	141	47.0
Planned	10/8/2019	4	584	146.0
Planned	10/8/2019	3	114	38.0
Planned	10/8/2019	7	973	139.0
Planned	10/8/2019	2	250	125.0
Planned	10/8/2019	4	472	118.0
Planned	10/8/2019	4	408	102.0
Planned	10/8/2019	21	462	22.0
Planned	10/8/2019	2	80	40.0

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	10/8/2019	4	244	61.0
Planned	10/8/2019	7	168	24.0
Planned	10/8/2019	4	44	11.0
Planned	10/8/2019	1	17	17.0
Planned	10/8/2019	26	1,040	40.0
Planned	10/8/2019	2	82	41.0
Planned	10/8/2019	6	12	2.0
Planned	10/8/2019	269	7,263	27.0
Planned	10/8/2019	4	332	83.0
Planned	10/8/2019	11	968	88.0
Planned	10/8/2019	5	30	6.0
Planned	10/8/2019	1	2	2.0
Planned	10/8/2019	2	362	181.0
Planned	10/8/2019	7	833	119.0
Planned	10/8/2019	3	27	9.0
Planned	10/8/2019	4	452	113.0
Planned	10/8/2019	4	40	10.0
Planned	10/8/2019	11	242	22.0
Planned	10/8/2019	3	387	129.0
Planned	10/9/2019	4	100	25.0
Planned	10/9/2019	4	244	61.0
Planned	10/9/2019	1	26	26.0
Planned	10/9/2019	3	186	62.0
Planned	10/9/2019	3	183	61.0
Planned	10/9/2019	3	210	70.0
Planned	10/9/2019	5	20	4.0
Planned	10/9/2019	4	616	154.0
Planned	10/9/2019	1	17	17.0
Planned	10/9/2019	4	648	162.0
Planned	10/9/2019	2	126	63.0
Planned	10/9/2019	3	90	30.0
Planned	10/9/2019	69	138	2.0
Planned	10/9/2019	3	9	3.0
Planned	10/9/2019	2	12	6.0
Planned	10/9/2019	2	76	38.0
Planned	10/9/2019	2	190	95.0
Planned	10/9/2019	7	280	40.0
Planned	10/9/2019	6	12	2.0
Planned	10/9/2019	4	376	94.0
Planned	10/10/2019	4	240	60.0
Planned	10/10/2019	2	396	198.0
Planned	10/10/2019	12	60	5.0
Planned	10/10/2019	11	2,222	202.0
Planned	10/10/2019	10	330	33.0
Planned	10/10/2019	5	935	187.0
Planned	10/10/2019	3	135	45.0
Planned	10/10/2019	4	592	148.0
Planned	10/11/2019	3	165	55.0

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	10/11/2019	28	1,540	55.0
Planned	10/11/2019	2	36	18.0
Planned	10/11/2019	3	387	129.0
Planned	10/11/2019	2	138	69.0
Planned	10/11/2019	23	920	40.0
Planned	10/11/2019	2	10	5.0
Planned	10/11/2019	20	440	22.0
Planned	10/14/2019	4	240	60.0
Planned	10/14/2019	2	108	54.0
Planned	10/14/2019	3	111	37.0
Planned	10/14/2019	4	324	81.0
Planned	10/14/2019	5	45	9.0
Planned	10/14/2019	6	78	13.0
Planned	10/14/2019	1	9	9.0
Planned	10/14/2019	3	324	108.0
Planned	10/14/2019	3	36	12.0
Planned	10/14/2019	4	36	9.0
Planned	10/14/2019	1	48	48.0
Planned	10/14/2019	6	696	116.0
Planned	10/15/2019	4	340	85.0
Planned	10/15/2019	2	102	51.0
Planned	10/15/2019	2	90	45.0
Planned	10/15/2019	2	54	27.0
Planned	10/15/2019	3	48	16.0
Planned	10/15/2019	2	136	68.0
Planned	10/15/2019	3	9	3.0
Planned	10/15/2019	6	360	60.0
Planned	10/15/2019	3	144	48.0
Customer Request	10/15/2019	<u>3</u>	83	83.0
Planned	10/15/2019	6	510	85.0
Planned	10/15/2019	2	18	9.0
Planned	10/15/2019	1	154	154.0
Planned	10/16/2019	3	9	3.0
	10/16/2019	3	348	
Planned	10/16/2019		84	116.0 12.0
Planned	10/16/2019	2	42	21.0
Planned	1 1		+	
Planned	10/16/2019	30	30	1.0
Planned	10/17/2019	26	6,396	246.0
Planned	10/17/2019	3	63	21.0
Planned	10/17/2019	3	327	109.0
Planned	10/17/2019	1	80	80.0
Planned	10/17/2019	2	62	31.0
Planned	10/17/2019	3	285	95.0
Planned	10/17/2019	8	440	55.0
Planned	10/17/2019	2	178	89.0
Planned	10/17/2019	2	254	127.0
Planned	10/17/2019	5	55	11.0
Planned	10/18/2019	5	145	29.0

Q13 – I	Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar	
Planned	10/18/2019	4	28	7.0	
Planned	10/19/2019	4	152	38.0	
Planned	10/21/2019	2	100	50.0	
Planned	10/21/2019	1	9	9.0	
Planned	10/21/2019	1	68	68.0	
Planned	10/21/2019	7	196	28.0	
Planned	10/21/2019	4	36	9.0	
Planned	10/21/2019	4	56	14.0	
Planned	10/21/2019	2	236	118.0	
Planned	10/21/2019	4	184	46.0	
Planned	10/21/2019	3	57	19.0	
Planned	10/21/2019	2	32	16.0	
Planned	10/21/2019	11	55	5.0	
Planned	10/21/2019	4	244	61.0	
Planned	10/21/2019	9	45	5.0	
Planned	10/22/2019	2	18	9.0	
Planned	10/22/2019	2	72	36.0	
Planned	10/22/2019	2	36	18.0	
Planned	10/22/2019	2	190	95.0	
Planned	10/22/2019	3	150	50.0	
Planned	10/22/2019	3	195	65.0	
Planned	10/22/2019	30	120	4.0	
Planned	10/22/2019	2	132	66.0	
Planned	10/22/2019	2	48	24.0	
Planned	10/23/2019	11	1,914	174.0	
Planned	10/23/2019	4	900	225.0	
Planned	10/23/2019	3	204	68.0	
Planned	10/23/2019	4	416	104.0	
Planned	10/23/2019	1	35	35.0	
Planned	10/23/2019	4	68	17.0	
Planned	10/23/2019	2	296	148.0	
Planned	10/23/2019	4	260	65.0	
Planned	10/23/2019	5	50	10.0	
Planned	10/23/2019	1	29	29.0	
Planned	10/23/2019	2	116	58.0	
Planned	10/23/2019	7	196	28.0	
		1	38		
Planned Planned	10/23/2019	6		38.0	
	10/23/2019		198 594	33.0	
Planned Planned	10/23/2019	18		33.0 1.0	
	10/23/2019	1,668 4	1,668		
Planned	10/24/2019		24	6.0	
Planned	10/24/2019	10 4	210	21.0	
Planned			80	20.0	
Planned	10/24/2019	2	372	186.0	
Planned	10/24/2019	2	184	92.0	
Planned	10/24/2019	2	316	158.0	
Planned	10/24/2019	3	174	58.0	
Planned	10/24/2019	4	20	5.0	

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	10/24/2019	1	15	15.0
Planned	10/25/2019	7	2,142	306.0
Planned	10/25/2019	2	66	33.0
Planned	10/25/2019	1	64	64.0
Planned	10/25/2019	2	24	12.0
Planned	10/25/2019	4	104	26.0
Planned	10/25/2019	3	33	11.0
Planned	10/25/2019	3	96	32.0
Planned	10/25/2019	8	168	21.0
Planned	10/25/2019	14	168	12.0
Planned	10/26/2019	3	75	25.0
Planned	10/28/2019	2	18	9.0
Planned	10/28/2019	1	46	46.0
Planned	10/28/2019	2	148	74.0
Planned	10/28/2019	4	692	173.0
Planned	10/28/2019	3	96	32.0
Planned	10/28/2019	4	408	102.0
Planned	10/28/2019	3	42	14.0
Planned	10/28/2019	1	94	94.0
Planned	10/28/2019	7	469	67.0
Planned	10/28/2019	4	92	23.0
Planned	10/28/2019	2	188	94.0
Planned	10/28/2019	4	28	7.0
Planned	10/28/2019	5	355	71.0
Planned	10/28/2019	2	14	7.0
Planned	10/28/2019	1	38	38.0
Planned	10/28/2019	2	40	20.0
Planned	10/28/2019	3	300	100.0
Planned	10/28/2019	2	148	74.0
Planned	10/28/2019	1	113	113.0
Planned	10/28/2019	6	228	38.0
Planned	10/29/2019	1	84	84.0
Planned	10/29/2019	2	24	12.0
Planned	10/29/2019	4	60	15.0
Planned	10/29/2019	26	967	52.0
Planned	10/29/2019	4	4	1.0
Planned	10/30/2019	4	376	94.0
Planned	10/30/2019	2	110	55.0
Planned	10/30/2019	2	56	28.0
Planned	10/30/2019	4	72	18.0
Planned	10/30/2019	1	5	5.0
Planned	10/30/2019	1	15	15.0
Planned	10/30/2019	4	40	10.0
Planned	10/30/2019	1	9	9.0
Planned	10/30/2019	4	8	2.0
Planned	10/30/2019	4	196	49.0
Planned	10/30/2019	10	60	6.0
Planned	10/30/2019	4	404	101.0

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	10/30/2019	4	308	77.0
Planned	10/31/2019	2	70	35.0
Planned	10/31/2019	7	189	27.0
Planned	10/31/2019	2	36	18.0
Planned	10/31/2019	3	324	108.0
Planned	10/31/2019	3	180	60.0
Planned	10/31/2019	4	184	46.0
Planned	10/31/2019	5	80	16.0
Planned	10/31/2019	1	97	97.0
Planned	10/31/2019	2	18	9.0
Planned	10/31/2019	14	406	29.0
Planned	10/31/2019	23	69	3.0
Planned	10/31/2019	23	115	5.0
Customer Request	11/1/2019	434	16,440	199.0
Planned	11/1/2019	2	196	98.0
Planned	11/1/2019	13	3,562	274.0
Planned	11/1/2019	4	136	34.0
Planned	11/1/2019	5	440	88.0
Planned	11/1/2019	5	730	146.0
Planned	11/1/2019	3	183	61.0
Planned	11/1/2019	2	42	21.0
Planned	11/1/2019	3	18	6.0
Planned	11/1/2019	14	1,722	123.0
Customer Request	11/2/2019	13	1,378	106.0
Planned	11/3/2019	2	36	18.0
Planned	11/4/2019	2	138	69.0
Planned	11/4/2019	2	58	29.0
Planned	11/4/2019	2	194	97.0
Planned	11/4/2019	10	2,120	212.0
Planned	11/4/2019		86	
		2		43.0
Planned	11/4/2019	4	340	85.0
Planned	11/4/2019	6 12	408	68.0 141.0
Planned	11/4/2019		1,692	
Planned	11/4/2019	3	36	12.0
Planned	11/4/2019	1	70	70.0
Planned	11/4/2019	4	672	168.0
Planned	11/4/2019	2	170	85.0
Planned	11/4/2019	5	60	12.0
Planned	11/4/2019	1	36	36.0
Planned	11/4/2019	5	1,065	213.0
Planned	11/4/2019	4	56	14.0
Planned	11/4/2019	3	51	17.0
Planned	11/4/2019	1	15	15.0
Planned	11/4/2019	3	219	73.0
Planned	11/4/2019	3	27	9.0
Planned	11/4/2019	2	190	95.0
Planned	11/4/2019	2	150	75.0
Planned	11/4/2019	4	212	53.0

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	11/4/2019	3	429	143.0
Planned	11/5/2019	15	1,815	121.0
Planned	11/5/2019	8	1,048	131.0
Planned	11/5/2019	1	241	241.0
Planned	11/5/2019	2	24	12.0
Planned	11/5/2019	2	150	75.0
Planned	11/5/2019	1	124	124.0
Planned	11/5/2019	2	60	30.0
Planned	11/5/2019	5	765	153.0
Planned	11/5/2019	6	306	51.0
Planned	11/5/2019	2	38	19.0
Planned	11/5/2019	3	117	39.0
Planned	11/5/2019	3	51	17.0
Planned	11/5/2019	3	270	90.0
Planned	11/5/2019	1	83	83.0
Planned	11/5/2019	2	220	110.0
Planned	11/5/2019	4	164	41.0
Planned	11/5/2019	3	99	33.0
Planned	11/5/2019	6	912	152.0
Planned	11/5/2019	4	64	16.0
Planned	11/5/2019	2	16	8.0
Planned	11/5/2019	2	120	60.0
Planned	11/5/2019	2	80	40.0
Planned	11/5/2019	3	255	85.0
Planned		3	213	
	11/6/2019	3 1	41	71.0
Planned	11/6/2019		556	41.0
Planned	11/6/2019	4		139.0
Planned	11/6/2019	1	87	87.0
Planned	11/6/2019	1	48	48.0
Planned	11/6/2019	1	44	44.0
Planned	11/6/2019	1	1	1.0
Planned	11/6/2019	3	123	41.0
Planned	11/6/2019	4	460	115.0
Planned	11/6/2019	1	177	177.0
Planned	11/6/2019	5	470	94.0
Planned	11/6/2019	5	510	102.0
Planned	11/6/2019	1	39	39.0
Planned	11/6/2019	5	680	136.0
Planned	11/6/2019	3	444	148.0
Planned	11/6/2019	4	544	136.0
Planned	11/6/2019	3	84	28.0
Planned	11/6/2019	4	292	73.0
Planned	11/6/2019	4	160	40.0
Planned	11/6/2019	2	30	15.0
Planned	11/6/2019	3	885	295.0
Planned	11/6/2019	4	336	84.0
Planned	11/6/2019	7	56	8.0
Planned	11/6/2019	1	27	27.0

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	11/6/2019	2	102	51.0
Planned	11/6/2019	6	666	111.0
Planned	11/6/2019	5	485	97.0
Planned	11/6/2019	6	306	51.0
Planned	11/6/2019	3	102	34.0
Planned	11/6/2019	4	68	17.0
Planned	11/6/2019	4	148	37.0
Planned	11/6/2019	2	76	38.0
Planned	11/7/2019	2	12	6.0
Planned	11/7/2019	5	320	64.0
Planned	11/7/2019	6	384	64.0
Planned	11/7/2019	1	15	15.0
Planned	11/7/2019	2	54	27.0
Planned	11/7/2019	2	38	19.0
Planned	11/7/2019	2	232	116.0
Planned	11/7/2019	3	321	107.0
Planned	11/7/2019	2	114	57.0
Planned	11/7/2019	3	87	29.0
Planned	11/7/2019	2	70	35.0
Planned	11/7/2019	3	21	7.0
Planned	11/8/2019	7	567	81.0
Planned	11/8/2019	10	80	8.0
Planned	11/8/2019	1	32	32.0
Planned	11/8/2019	1	32	32.0
Planned	11/8/2019	3	99	33.0
Planned	11/8/2019	<u>5</u>	195	39.0
Planned	11/8/2019	2	10	5.0
Planned	11/8/2019	4	64	16.0
Planned	11/8/2019	4	32	8.0
Planned	11/8/2019	4	388	97.0
Planned	11/8/2019	2	314	157.0
	11/8/2019	9	45	5.0
Planned Planned	11/8/2019	2	12	6.0
Planned	11/9/2019	8	40	5.0
Planned	11/9/2019	2	36	18.0
Planned	11/11/2019	3	57	19.0
Planned	11/11/2019	7	714	102.0
Planned	11/12/2019	11	231	231.0
Planned	11/12/2019	4	64	16.0
Planned	11/12/2019	4	48	12.0
Planned	11/12/2019	5	60	12.0
Planned	11/12/2019	2	138	69.0
Planned	11/12/2019	3	225	75.0
Planned	11/13/2019	4	320	80.0
Planned	11/13/2019	177	4,779	27.0
Planned	11/13/2019	10	270	27.0
Planned	11/13/2019	3	246	82.0
Planned	11/13/2019	5	1,270	254.0

Q13 – Distribution Excluded Outage Events				
Causation	Date	CI	CMI	L-Bar
Planned	11/13/2019	2	72	36.0
Planned	11/14/2019	3	24	8.0
Planned	11/14/2019	1	25	25.0
Planned	11/14/2019	4	192	48.0
Planned	11/14/2019	2	42	21.0
Planned	11/14/2019	3	42	14.0
Planned	11/14/2019	4	220	55.0
Planned	11/14/2019	1	27	27.0
Planned	11/14/2019	2	92	46.0
Planned	11/14/2019	2	64	32.0
Planned	11/14/2019	4	128	32.0
Planned	11/15/2019	5	355	71.0
Planned	11/15/2019	2	944	472.0
Planned	11/15/2019	3	3	1.0
Planned	11/15/2019	3	111	37.0
Planned	11/15/2019	2	52	26.0
Planned	11/15/2019	1	67	67.0
Planned	11/15/2019	2	42	21.0
Planned	11/16/2019	8	744	93.0
Planned	11/18/2019	5	620	124.0
Planned	11/18/2019	6	894	149.0
Planned	11/18/2019	1	67	67.0
Planned	11/18/2019	1	36	36.0
Customer Request	11/18/2019	5	1,410	282.0
Planned	11/18/2019	2	130	65.0
Planned	11/18/2019	3	105	35.0
Planned	11/18/2019	4	356	89.0
Planned	11/18/2019	1	54	54.0
Planned	11/18/2019	6	498	83.0
Planned	11/18/2019	7	539	77.0
	11/18/2019	4	88	
Planned Planned	11/18/2019	4	528	22.0 132.0
Planned	11/18/2019	3	348	116.0
		1	6	
Planned	11/18/2019			6.0
Planned	11/18/2019	2	188	47.0
Planned	11/18/2019		174	87.0
Planned	11/18/2019	4	236	59.0
Planned	11/18/2019	2	72	36.0
Planned	11/18/2019	1	39	39.0
Planned	11/18/2019	3	69	23.0
Planned	11/18/2019	4	56	14.0
Planned	11/18/2019	15	45	3.0
Planned	11/19/2019	4	160	40.0
Planned	11/19/2019	3	333	111.0
Planned	11/19/2019	1	53	53.0
Planned	11/19/2019	1	38	38.0
Planned	11/19/2019	2	160	80.0
Planned	11/19/2019	1	42	42.0

Q13 -	Distribution Exclu	uded Out	age Events			
Causation	Date	CI	CMI	L-Bar		
Planned	11/19/2019	3	246	82.0		
Planned	11/19/2019	2	414	207.0		
Planned	11/19/2019	2	50	25.0		
Planned	11/19/2019	2	48	24.0		
Planned	11/19/2019	4	72	18.0		
Planned	11/19/2019	1	2	2.0		
Planned	11/19/2019	3	1,107	369.0		
Planned	11/19/2019	2	350	175.0		
Planned	11/19/2019	2	178	89.0		
Planned	11/19/2019	11	2,057	187.0		
Planned	11/19/2019	4	68	17.0		
Planned	11/19/2019	4	92	23.0		
Planned	11/19/2019	4	500	125.0		
Planned	11/19/2019	3	249	83.0		
Planned	11/19/2019	2	128	64.0		
Planned	11/19/2019	1	26	26.0		
Planned	11/19/2019	5	175	35.0		
Planned	11/19/2019	2	28	14.0		
Planned	11/19/2019	2	114	57.0		
Planned	11/19/2019	10	840	84.0		
Planned	11/19/2019	2	16	8.0		
Planned	11/19/2019	4	144	36.0		
Planned	11/19/2019	7	252	36.0		
Planned	11/19/2019	11	154	14.0		
Planned	11/19/2019	7	924	132.0		
Planned	11/19/2019	2	274	137.0		
Planned	11/19/2019	2	210	105.0		
Planned	11/19/2019	2	86	43.0		
Planned	11/19/2019	4	1,626	600.0		
Planned	11/20/2019	1	70	70.0		
Planned		1	66			
	11/20/2019	5	735	66.0		
Planned	11/20/2019	<u>5</u>	35	147.0		
Planned	11/20/2019			7.0		
Planned	11/20/2019	3	375	125.0		
Planned	11/20/2019	2	112	56.0		
Planned	11/20/2019	2	118	59.0		
Planned	11/20/2019	4	124	31.0		
Planned	11/20/2019	8	648	81.0		
Planned	11/20/2019	3	165	55.0		
Planned	11/20/2019	2	64	32.0		
Planned	11/20/2019	3	12	4.0		
Planned	11/20/2019	2	4	2.0		
Planned	11/20/2019	6	1,158	193.0		
Planned	11/20/2019	1	71	71.0		
Planned	11/20/2019	1	90	90.0		
Planned	11/20/2019	2	150	75.0		
Planned	11/20/2019	2	16	8.0		
Planned	11/20/2019	4	316	79.0		

Q13 – I	Distribution Exclu	ıded Out	age Events	
Causation	Date	CI	CMI	L-Bar
Planned	11/20/2019	1	53	53.0
Planned	11/20/2019	1	54	54.0
Planned	11/20/2019	3	9	3.0
Planned	11/20/2019	2	12	6.0
Planned	11/20/2019	4	28	7.0
Planned	11/20/2019	2	84	42.0
Planned	11/20/2019	2	64	32.0
Planned	11/21/2019	1	115	115.0
Planned	11/21/2019	5	235	47.0
Planned	11/21/2019	2	300	150.0
Planned	11/21/2019	1	115	115.0
Planned	11/21/2019	2	26	13.0
Planned	11/21/2019	5	10	2.0
Planned	11/21/2019	2	198	99.0
Planned	11/21/2019	8	136	17.0
Planned	11/21/2019	2	12	6.0
Planned	11/21/2019	79	474	6.0
Planned	11/22/2019	5	460	92.0
Planned	11/22/2019	2	40	20.0
Planned	11/22/2019	3	15	5.0
Planned	11/22/2019	7	266	38.0
Planned	11/22/2019	3	57	19.0
Planned	11/22/2019	2	38	19.0
Planned	11/22/2019	2	44	22.0
Planned	11/25/2019	1	34	34.0
Planned	11/25/2019	1	26	26.0
Planned	11/25/2019	2	104	52.0
Planned	11/25/2019	4	392	98.0
Planned	11/25/2019	2	60	30.0
Planned	11/25/2019	1	181	181.0
Planned	11/25/2019	3	36	12.0
Planned	11/25/2019	2	16	8.0
Planned	11/25/2019	2	136	68.0
Planned	11/25/2019	10	10	1.0
Planned	11/25/2019	5	745	149.0
Planned	11/25/2019	4	64	16.0
Planned	11/25/2019	2	38	19.0
Planned	11/26/2019	2	124	62.0
Planned	11/26/2019	1	41	41.0
Planned	11/26/2019	3	282	94.0
Planned	11/26/2019	1	15	15.0
Planned	11/26/2019	2	12	6.0
Planned	11/26/2019	1	21	21.0
Planned	11/26/2019	10	630	63.0
Planned	11/26/2019	6	30	5.0
Planned	11/26/2019	4	496	124.0
Planned	11/26/2019	5	5	1.0
Planned	11/26/2019	4	216	54.0

Q13 -	Distribution Excl	uded Out	age Events			
Causation	Date	CI	CMI	L-Bar		
Planned	11/26/2019	1	87	87.0		
Planned	11/27/2019	1	5	5.0		
Planned	11/27/2019	1	107	107.0		
Planned	11/27/2019	4	826	336.0		
Planned	11/27/2019	1	26	26.0		
Planned	11/27/2019	1	25	25.0		
Planned	11/27/2019	2	230	115.0		
Planned	11/27/2019	24	624	26.0		
Planned	11/27/2019	3	39	13.0		
Planned	12/2/2019	8	600	75.0		
Planned	12/2/2019	6	960	160.0		
Planned	12/2/2019	17	935	55.0		
Planned	12/2/2019	3	216	72.0		
Planned	12/2/2019	3	99	33.0		
Planned	12/2/2019	1	15	15.0		
Planned	12/2/2019	4	136	34.0		
Planned	12/2/2019	4	696	174.0		
Planned	12/2/2019	1	45	45.0		
Planned	12/2/2019	2	158	79.0		
Planned	12/2/2019	4	252	63.0		
Planned	12/3/2019	40	2,680	67.0		
Planned	12/3/2019	3	225	75.0		
Planned	12/3/2019	2	276	138.0		
Planned	12/3/2019	6	66	11.0		
Planned	12/3/2019	4	264	66.0		
Planned	12/3/2019	4	88	22.0		
Planned	12/3/2019	2	176	88.0		
Planned	12/3/2019	2	90	45.0		
Planned	12/4/2019	1	113	113.0		
		3	93			
Planned	12/4/2019	3		31.0		
Planned	12/4/2019	8	189 336	63.0		
Planned	12/4/2019		_	42.0 7.0		
Planned	12/4/2019	4	28			
Planned	12/4/2019	12	864	72.0		
Planned	12/4/2019	2	354	177.0		
Planned	12/4/2019	5	570	114.0		
Planned	12/4/2019	4	272	68.0		
Planned	12/5/2019	17	34	2.0		
Planned	12/5/2019	61	305	5.0		
Planned	12/5/2019	4	464	116.0		
Planned	12/5/2019	2	202	101.0		
Planned	12/5/2019	4	272	68.0		
Planned	12/5/2019	41	3,977	97.0		
Planned	12/5/2019	5	470	94.0		
Planned	12/5/2019	2	90	45.0		
Planned	12/5/2019	16	32	2.0		
Planned	12/5/2019	1	119	119.0		
Planned	12/5/2019	5	300	60.0		

Q13 – I	Distribution Excl	uded Outa	age Events	
Causation	Date	CI	CMI	L-Bar
Planned	12/5/2019	7	350	50.0
Planned	12/5/2019	9	567	63.0
Planned	12/6/2019	7	231	33.0
Planned	12/6/2019	18	342	19.0
Planned	12/6/2019	2	102	51.0
Planned	12/6/2019	3	3	1.0
Planned	12/6/2019	3	231	77.0
Planned	12/7/2019	2	840	420.0
Planned	12/8/2019	3	81	27.0
Planned	12/8/2019	6	66	11.0
Planned	12/9/2019	4	24	6.0
Planned	12/9/2019	2	70	35.0
Planned	12/9/2019	7	420	60.0
Planned	12/9/2019	2	116	58.0
Planned	12/9/2019	4	56	14.0
Planned	12/9/2019	4	308	77.0
Planned	12/9/2019	3	36	12.0
Planned	12/9/2019	2	150	75.0
Planned	12/9/2019	4	932	233.0
Planned	12/9/2019	3	366	122.0
Planned	12/9/2019	3	153	51.0
Planned	12/10/2019	3	174	58.0
Planned	12/10/2019	3	195	65.0
Planned	12/10/2019	2	22	11.0
Planned	12/10/2019	4	144	36.0
Planned	12/10/2019	5	625	125.0
Planned	12/10/2019	3	9	3.0
Planned	12/10/2019	41	4,305	105.0
Planned	12/10/2019	2	232	116.0
	12/10/2019	4		
Planned Planned			120 32	30.0
	12/10/2019	2		16.0 54.0
Planned	12/10/2019	5	216 355	71.0
Planned	12/10/2019		+	_
Planned	12/10/2019	21	504	24.0
Planned	12/10/2019	20	460	23.0
Planned	12/10/2019	3	111	37.0
Planned	12/10/2019	5	295	59.0
Planned	12/11/2019	1,686	3,372	2.0
Planned	12/11/2019	2	60	30.0
Planned	12/11/2019	9	63	7.0
Planned	12/11/2019	10	140	14.0
Planned	12/11/2019	8	24	3.0
Planned	12/12/2019	8	1,520	190.0
Planned	12/12/2019	4	56	14.0
Planned	12/12/2019	4	612	153.0
Planned	12/12/2019	3	258	86.0
Planned	12/12/2019	1	151	151.0
Planned	12/12/2019	4	296	74.0

Q13 – Di	istribution Excl	uded Out	age Events	
Causation	Date	CI	CMI	L-Bar
Planned	12/12/2019	7	931	133.0
Planned	12/12/2019	1	214	214.0
Planned	12/12/2019	4	508	127.0
Planned	12/12/2019	5	40	8.0
Planned	12/12/2019	3	21	7.0
Planned	12/13/2019	8	352	44.0
Planned	12/13/2019	4	300	75.0
Planned	12/13/2019	10	980	98.0
Planned	12/13/2019	2	40	20.0
Customer Request	12/15/2019	12	3,552	296.0
Planned	12/16/2019	3	69	23.0
Planned	12/16/2019	5	30	6.0
Planned	12/16/2019	1	136	136.0
Planned	12/16/2019	5	105	21.0
Planned	12/16/2019	3	378	126.0
Planned	12/16/2019	2	184	92.0
Planned	12/16/2019	4	164	41.0
Planned	12/16/2019	5	650	130.0
Planned	12/16/2019	3	183	61.0
Planned	12/17/2019	22	44	2.0
Planned	12/17/2019	2	282	141.0
Planned	12/17/2019	3	243	81.0
Planned	12/18/2019	23	92	4.0
Planned	12/18/2019	30	1,110	37.0
Planned	12/18/2019	3	48	16.0
Planned	12/18/2019	5	25	5.0
Planned	12/18/2019	3	111	37.0
Planned	12/18/2019	1	34	34.0
Planned	12/18/2019	6	42	7.0
Planned	12/18/2019	4	28	7.0
Planned	12/18/2019	2	34	17.0
Planned	12/18/2019	3	195	65.0
Planned	12/19/2019	5	315	63.0
Planned	12/19/2019	2	20	10.0
Planned	12/19/2019	2	104	52.0
Planned	12/19/2019	2	16	8.0
Planned	12/19/2019	4	124	31.0
Planned	12/19/2019	4	140	35.0
Planned	12/19/2019	9	63	7.0
Customer Request	12/19/2019	22	2,508	114.0
Planned	12/20/2019	13	247	19.0
Planned	12/20/2019	8	152	19.0
Planned	12/20/2019	1	5	5.0
Planned	12/20/2019	3	255	85.0
Planned	12/20/2019	2	24	12.0
Planned	12/20/2019	28	56	2.0
Planned	12/20/2019	5	385	77.0
Planned	12/20/2019	3	45	15.0

Q13 – Di	stribution Exc	luded Outa	age Events	
Causation	Date	CI	CMI	L-Bar
Planned	12/20/2019	6	510	85.0
Planned	12/20/2019	4	120	30.0
Planned	12/20/2019	2	14	7.0
Planned	12/20/2019	4	116	29.0
Customer Request	12/22/2019	1	68	68.0
Planned	12/23/2019	5	295	59.0
Planned	12/23/2019	4	100	25.0
Planned	12/23/2019	1	14	14.0
Planned	12/23/2019	2	50	25.0
Planned	12/23/2019	2	152	76.0
Planned	12/23/2019	2	54	27.0
Planned	12/23/2019	2	166	83.0
Planned	12/23/2019	2	68	34.0
Planned	12/23/2019	1	10	10.0
Planned	12/23/2019	11	539	49.0
Planned	12/23/2019	5	200	40.0
Planned	12/26/2019	8	2,232	279.0
Planned	12/26/2019	5	335	67.0
Planned	12/26/2019	7	357	51.0
Planned	12/26/2019	5	460	92.0
Planned	12/27/2019	2	18	9.0
Planned	12/27/2019	2	210	105.0
Planned	12/27/2019	3	186	62.0
Planned	12/27/2019	25	450	18.0
Planned	12/27/2019	4	24	6.0
Planned	12/29/2019	766	766	1.0
Planned	12/30/2019	4	112	28.0
Planned	12/30/2019	4	976	244.0
Planned	12/30/2019	2	130	65.0
Planned	12/30/2019	4	108	27.0
Planned	12/31/2019	2	146	73.0
Planned	12/31/2019	3	330	110.0
Planned	12/31/2019	5	575	115.0
Planned	12/31/2019	22	858	39.0
Planned	12/31/2019	12	348	29.0

Feeder Specific Data and Attached Laterals

Α	В	С	D	E	F	G	н	ı	J	К	L	М	N	0	Р	Q	R	S	Т
Feeder ID#	Sub Region	FDR Type	Custs	OH Lat	UG Lat	Hybrid Lat	OH Fdr & OCR Miles	UG Fdr Miles	OH Lat Miles	UG Lat Miles	Total OH Miles	Total UG Miles	Total Miles	FDR CI	FDR CMI	Is the Feeder Circuit Looped?	Load growth (MVA D pk CY - pk Prior	Peak Load (MVA)	Number of N on FDR
900514	PN	Hybrid	1	0	53	7	4.8	1.8	3.4	7.1	8.2	8.9	17.1	0	0	No	0.0	0.000	0
900804	PN	Hybrid	4	2	4	0	0.9	0.0	0.2	1.2	1.1	1.2	2.3	0	0	No	0.0	0.000	0
902222	PC	Hybrid	35	0	2	0	0.1	0.1	0.0	1.2	0.1	1.3	1.4	0	0	No	0.0	0.000	0
902613	FW	ОН	18	1	0	0	0.1	0.0	2.4	0.0	2.5	0.0	2.5	0	0	No	0.0	0.000	0
902619	FW	ОН	69	12	0	0	0.0	0.0	5.1	0.0	5.1	0.0	5.1	0	0	No	0.0	0.000	0
905202	PN	UG	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	No	0.0	0.000	0
905212	PN	UG	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	No	0.0	0.000	0
905222	PN	UG	0	0	1	0	0.0	1.0	0.0	0.0	0.0	1.0	1.0	0	0	Yes	0.0	0.000	0
905232	PN	UG	0	0	0	0	0.0	1.0	0.0	0.0	0.0	1.0	1.0	0	0	Yes	0.0	0.000	0
905242	PN	UG	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	No	0.0	0.000	0
905262	PN	Hybrid	0	0	1	0	0.1	1.0	0.0	0.0	0.1	1.0	1.1	0	0	Yes	0.0	0.000	0
905332	PN	Hybrid	2,120	34	27	12	5.5	0.0	12.9	11.1	18.4	11.1	29.5	0	0	Yes	0.5	10.885	0
905342	PN	Hybrid	1,081	17	12	4	1.9	0.1	3.6	5.1	5.5	5.2	10.7	0	0	Yes	0.1	7.620	0
905352	PN	Hybrid	247	15	18	8	2.9	0.0	5.8	2.7	8.7	2.7	11.4	0	0	Yes	0.5	12.265	0
905362	PN	ОН	1	0	0	0	3.0	0.0	0.0	0.0	3.0	0.0	3.0	0	0	No	0.1	1.581	0
905372	PN	ОН	0	0	0	0	3.0	0.0	0.0	0.0	3.0	0.0	3.0	0	0	No	0.1	2.073	0
905382	PN	Hybrid	2,145	137	13	23	24.9	0.0	110.5	10.1	135.4	10.1	145.5	0	0	No	0.3	14.107	0
905392	PN	Hybrid	1,023	73	5	15	9.1	0.0	53.9	3.9	63.0	3.9	66.9	155	8,293	No	0.5	12.077	1
905412	PN	ОН	2	1	0	0	0.5	0.0	0.4	0.0	0.9	0.0	0.9	0	0	No	0.1	7.961	0
905454	PC	UG	1	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	No	0.1	20.365	0
905502	PN	Hybrid	28	5	1	0	0.8	0.0	0.4	0.1	1.2	0.1	1.3	0	0	No	3.0	2.860	0
905512	PN	Hybrid	1,856	82	24	7	7.5	0.0	28.7	16.6	36.2	16.6	52.8	0	0	No	0.5	8.208	0
905522	PN	Hybrid	1,756	88	21	13	12.4	0.1	31.8	12.4	44.2	12.5	56.7	0	0	No	0.1	8.010	0

Α	В	С	D	E	F	G	Н	ı	J	К	L	М	N	0	Р	Q	R	S	Т
Feeder ID#	Sub Region	FDR Type	Custs	OH Lat	UG Lat	Hybrid Lat	OH Fdr & OCR Miles	UG Fdr Miles	OH Lat Miles	UG Lat Miles	Total OH Miles	Total UG Miles	Total Miles	FDR CI	FDR CMI	Is the Feeder Circuit Looped?	Load growth (MVA D pk CY - pk Prior	Peak Load (MVA)	Number of N on FDR
905542	PN	Hybrid	3,476	45	17	8	7.9	0.0	29.6	20.9	37.5	20.9	58.4	0	0	Yes	1.0	20.919	0
905562	PN	Hybrid	2,182	36	5	7	4.4	0.0	21.1	6.0	25.5	6.0	31.5	0	0	Yes	0.1	15.707	0
905572	PN	Hybrid	1,386	18	5	7	2.8	0.0	10.5	5.0	13.3	5.0	18.3	555	1,221	No	0.1	6.823	1
905582	PN	Hybrid	1,839	45	9	5	5.2	0.0	12.9	8.0	18.1	8.0	26.1	0	0	Yes	0.1	10.340	0
905592	PN	Hybrid	1,617	15	15	4	3.1	1.3	4.3	7.4	7.4	8.7	16.1	0	0	Yes	0.5	8.150	0
905602	PN	Hybrid	2,169	71	11	18	12.7	0.1	67.6	12.7	80.3	12.8	93.1	0	0	Yes	0.5	15.622	0
905612	PN	ОН	2,712	66	3	10	11.0	0.0	130.0	6.0	141.0	6.0	147.0	0	0	Yes	1.0	14.162	0
905632	PN	Hybrid	1,340	10	17	5	5.6	2.6	1.4	6.8	7.0	9.4	16.4	0	0	Yes	0.3	7.780	0
905642	PN	Hybrid	3,066	65	11	6	6.0	0.0	24.3	16.8	30.3	16.8	47.1	1,380	73,531	No	1.0	18.703	1
905652	FW	Hybrid	1,559	43	13	4	5.3	0.0	13.5	5.1	18.8	5.1	23.9	0	0	No	0.3	14.938	0
905662	FW	Hybrid	3,374	59	20	13	6.1	0.0	13.3	8.4	19.4	8.4	27.8	0	0	No	0.1	14.626	0
905682	FW	Hybrid	1,123	24	12	11	3.9	0.0	5.9	2.3	9.8	2.3	12.1	0	0	No	0.1	9.918	0
905752	PN	Hybrid	2,705	42	13	5	5.0	0.0	26.2	19.2	31.2	19.2	50.4	0	0	Yes	1.3	14.028	0
905762	PN	Hybrid	2,338	48	14	4	6.3	0.0	18.1	15.2	24.4	15.2	39.6	0	0	Yes	1.3	10.633	0
905772	PN	Hybrid	335	10	3	3	1.9	0.0	3.7	2.7	5.6	2.7	8.3	0	0	Yes	0.5	4.130	0
905782	PN	Hybrid	2,838	70	2	10	7.0	0.0	62.3	19.2	69.3	19.2	88.5	0	0	Yes	1.0	13.256	0
905792	PN	Hybrid	3,224	143	23	20	23.5	0.0	79.7	14.3	103.2	14.3	117.5	5,456	186,322	No	1.0	14.029	3
905822	PN	Hybrid	2,476	51	16	12	5.9	0.0	22.3	10.8	28.2	10.8	39.0	0	0	Yes	0.5	14.894	0
905832	PN	Hybrid	2,999	79	11	10	12.8	0.2	52.5	3.7	65.3	3.9	69.2	2,928	2,928	Yes	0.3	14.090	1
905842	PN	Hybrid	2,981	58	11	6	7.1	0.0	24.6	15.9	31.7	15.9	47.6	0	0	No	1.0	12.790	0
905852	PN	ОН	825	26	6	5	7.9	0.0	20.5	1.2	28.4	1.2	29.6	0	0	Yes	0.1	6.898	0
905872	PN	Hybrid	1,704	13	11	8	3.1	0.0	11.9	14.2	15.0	14.2	29.2	0	0	No	0.3	8.769	0
905882	FW	Hybrid	2,719	46	13	10	3.6	0.0	19.6	4.7	23.2	4.7	27.9	0	0	No	0.3	10.260	0
905892	FW	Hybrid	3,683	44	29	14	7.2	0.0	26.8	17.2	34.0	17.2	51.2	0	0	No	0.3	15.770	0
905902	PN	Hybrid	815	14	6	1	2.4	0.4	5.7	2.7	8.1	3.1	11.2	0	0	Yes	0.1	8.688	0

Α	В	С	D	E	F	G	Н	ı	J	К	L	М	N	0	Р	Q	R	S	т
Feeder ID#	Sub Region	FDR Type	Custs	OH Lat	UG Lat	Hybrid Lat	OH Fdr & OCR Miles	UG Fdr Miles	OH Lat Miles	UG Lat Miles	Total OH Miles	Total UG Miles	Total Miles	FDR CI	FDR CMI	Is the Feeder Circuit Looped?	Load growth (MVA D pk CY - pk Prior	Peak Load (MVA)	Number of N on FDR
905912	PN	Hybrid	974	8	25	11	3.5	1.3	1.5	5.4	5.0	6.7	11.7	1,056	83,281	Yes	0.1	12.931	2
905922	PN	Hybrid	2,703	23	17	9	4.5	0.0	8.5	23.1	13.0	23.1	36.1	0	0	Yes	0.3	16.029	0
905932	PN	Hybrid	2,055	32	20	9	3.8	0.0	10.0	13.4	13.8	13.4	27.2	0	0	Yes	0.3	9.713	0
905942	PN	Hybrid	1,460	3	21	2	1.9	5.0	0.9	5.4	2.8	10.4	13.2	1,462	108,870	No	0.5	7.317	1
905972	PN	Hybrid	1,133	25	9	6	3.9	0.1	7.0	4.6	10.9	4.7	15.6	0	0	Yes	0.1	8.489	0
905982	PN	Hybrid	2,375	21	33	9	6.0	0.3	10.0	12.1	16.0	12.4	28.4	841	5,943	No	0.1	9.233	1
905992	PN	Hybrid	1,673	21	23	2	4.9	0.1	5.7	10.2	10.6	10.3	20.9	1,607	110,022	Yes	0.1	13.675	1
906032	PN	Hybrid	1,126	19	6	7	4.9	0.0	4.7	4.0	9.6	4.0	13.6	29	317	Yes	0.5	8.430	1
906042	PN	ОН	1,770	30	1	2	4.6	0.0	14.3	0.4	18.9	0.4	19.3	0	0	Yes	0.1	6.349	0
906052	PN	Hybrid	2,807	49	9	8	6.8	0.0	26.5	12.2	33.3	12.2	45.5	1,999	21,523	Yes	0.5	12.233	1
906062	PN	ОН	1,657	50	2	5	5.2	0.0	17.5	0.3	22.7	0.3	23.0	0	0	Yes	0.1	6.820	0
906072	PN	Hybrid	3,145	49	26	17	11.0	0.2	18.9	23.1	29.9	23.3	53.2	0	0	Yes	0.5	15.585	0
906082	PN	Hybrid	2,700	63	14	3	10.4	0.0	21.6	11.7	32.0	11.7	43.7	0	0	Yes	0.2	10.542	0
906092	PN	Hybrid	1,974	18	8	5	5.2	0.0	12.4	8.1	17.6	8.1	25.7	0	0	Yes	0.1	9.309	0
906212	PN	Hybrid	2,668	45	16	14	6.3	0.3	26.3	28.0	32.6	28.3	60.9	0	0	Yes	0.5	14.689	0
906222	PN	Hybrid	1,622	33	12	9	4.5	0.0	16.3	12.2	20.8	12.2	33.0	0	0	No	0.5	7.916	0
906402	PN	ОН	287	59	1	0	4.8	0.0	4.9	0.1	9.7	0.1	9.8	265	35,530	No	1.0	10.160	2
906412	FW	Hybrid	865	48	5	4	6.0	0.0	24.2	4.0	30.2	4.0	34.2	1,638	80,681	Yes	0.3	4.504	2
906432	FW	Hybrid	209	18	1	4	2.4	0.0	5.6	0.6	8.0	0.6	8.6	113	13,200	No	0.1	1.850	1
906452	FW	ОН	91	28	0	3	3.4	0.0	6.2	0.4	9.6	0.4	10.0	0	0	Yes	0.1	1.080	0
906482	PN	Hybrid	2,052	10	22	4	4.8	0.1	8.2	8.7	13.0	8.8	21.8	0	0	Yes	0.1	7.299	0
906508	PN	Hybrid	42	7	7	1	1.6	0.1	0.4	0.5	2.0	0.6	2.6	34	773	Yes	0.1	9.763	1
906522	PN	Hybrid	2,126	30	7	10	4.8	0.0	15.2	3.8	20.0	3.8	23.8	0	0	No	0.1	10.399	0
906532	PN	ОН	2,163	44	0	11	6.5	0.0	17.6	0.8	24.1	0.8	24.9	0	0	No	0.1	8.899	0
906542	PN	Hybrid	1,608	29	7	4	4.9	0.1	11.4	1.1	16.3	1.2	17.5	0	0	No	0.1	10.234	0

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Feeder ID#	Sub Region	FDR Type	Custs	OH Lat	UG Lat	Hybrid Lat	OH Fdr & OCR Miles	UG Fdr Miles	OH Lat Miles	UG Lat Miles	Total OH Miles	Total UG Miles	Total Miles	FDR CI	FDR CMI	Is the Feeder Circuit Looped?	Load growth (MVA D pk CY - pk Prior	Peak Load (MVA)	Number of N on FDR
906572	PN	ОН	1,871	43	2	11	5.5	0.0	17.7	0.8	23.2	0.8	24.0	0	0	No	1.0	13.634	0
906582	PN	ОН	1,575	42	0	5	3.6	0.0	16.5	0.3	20.1	0.3	20.4	83	6,391	Yes	0.1	8.887	1
906592	PN	Hybrid	398	7	7	2	3.3	0.0	2.2	0.8	5.5	0.8	6.3	0	0	No	0.1	11.761	0
906602	PN	ОН	550	16	2	2	1.6	0.0	6.0	0.1	7.6	0.1	7.7	0	0	Yes	0.1	4.180	0
906612	PN	ОН	1,220	42	2	2	5.5	0.1	10.0	0.1	15.5	0.2	15.7	0	0	Yes	0.1	6.980	0
906622	PN	ОН	827	19	2	2	2.9	0.1	6.1	0.1	9.0	0.2	9.2	0	0	Yes	0.1	3.850	0
906632	PN	Hybrid	663	34	4	2	3.6	0.0	6.4	0.9	10.0	0.9	10.9	454	6,969	Yes	0.1	10.540	1
906642	PN	ОН	683	47	8	3	3.9	0.0	8.2	0.5	12.1	0.5	12.6	1,660	91,512	Yes	0.1	10.230	4
906652	PN	ОН	2,535	63	4	6	5.5	0.0	22.6	1.1	28.1	1.1	29.2	0	0	Yes	0.1	10.970	0
906662	PN	Hybrid	1,516	46	12	9	6.9	0.0	14.5	4.0	21.4	4.0	25.4	0	0	Yes	0.1	9.035	0
906678	PN	Hybrid	2,360	19	13	3	3.4	0.3	15.3	4.9	18.7	5.2	23.9	0	0	Yes	0.1	9.031	0
906682	PN	Hybrid	1,154	26	4	7	6.0	0.0	9.2	2.3	15.2	2.3	17.5	0	0	Yes	0.1	6.162	0
906692	PN	Hybrid	1,494	27	3	5	3.2	0.0	10.4	2.8	13.6	2.8	16.4	363	10,467	Yes	0.3	5.842	1
906706	PN	ОН	768	25	2	2	2.3	0.0	12.6	0.1	14.9	0.1	15.0	1,536	469,582	No	0.1	5.770	3
906716	PN	Hybrid	975	31	6	6	6.2	0.0	10.6	1.1	16.8	1.1	17.9	989	52,724	Yes	0.1	5.859	3
906722	PN	Hybrid	2	0	2	0	1.1	0.4	0.0	0.0	1.1	0.4	1.5	0	0	Yes	0.0	0.000	0
906732	PN	Hybrid	1	0	2	0	0.6	0.4	0.0	0.0	0.6	0.4	1.0	0	0	Yes	0.0	0.000	0
906742	PN	Hybrid	1,908	18	5	3	3.6	0.1	10.2	7.1	13.8	7.2	21.0	0	0	Yes	0.1	7.231	0
906774	PN	Hybrid	839	27	18	14	6.4	0.0	12.5	2.4	18.9	2.4	21.3	0	0	No	0.2	10.331	0
906782	PN	Hybrid	1,711	53	10	7	10.2	0.0	22.0	6.4	32.2	6.4	38.6	0	0	Yes	0.3	13.255	0
906792	PN	Hybrid	2,439	48	11	20	5.6	0.0	30.9	12.8	36.5	12.8	49.3	2,380	4,093	Yes	1.0	13.235	1
906813	PN	UG	0	0	0	0	0.0	0.7	0.0	0.0	0.0	0.7	0.7	0	0	Yes	0.1	0.013	0
906835	PN	UG	0	0	0	0	0.0	0.6	0.0	0.0	0.0	0.6	0.6	0	0	Yes	0.1	0.013	0
906887	PN	UG	1	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	No	0.0	0.000	0
906912	PN	Hybrid	1,782	56	19	9	7.1	0.0	27.6	11.8	34.7	11.8	46.5	0	0	Yes	0.5	13.510	0

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Feeder ID#	Sub Region	FDR Type	Custs	OH Lat	UG Lat	Hybrid Lat	OH Fdr & OCR Miles	UG Fdr Miles	OH Lat Miles	UG Lat Miles	Total OH Miles	Total UG Miles	Total Miles	FDR CI	FDR CMI	Is the Feeder Circuit Looped?	Load growth (MVA D pk CY - pk Prior	Peak Load (MVA)	Number of N on FDR
906922	PN	Hybrid	1,397	27	2	5	7.2	0.0	40.3	5.0	47.5	5.0	52.5	0	0	Yes	0.1	5.837	0
906932	PN	Hybrid	1,588	50	16	7	8.8	0.0	18.1	10.7	26.9	10.7	37.6	0	0	No	0.3	11.729	0
906942	PN	Hybrid	1,806	67	5	10	10.1	0.0	46.6	4.5	56.7	4.5	61.2	1,533	90,772	Yes	0.2	7.493	2
906966	PN	ОН	1	0	1	0	0.0	0.0	0.4	0.0	0.4	0.0	0.4	0	0	No	0.0	0.000	0
906982	PN	ОН	13	4	0	0	0.6	0.0	9.9	0.0	10.5	0.0	10.5	0	0	No	0.1	0.461	0
906992	PN	Hybrid	2,368	52	25	6	9.2	0.0	15.0	20.0	24.2	20.0	44.2	0	0	Yes	0.1	13.109	0
907012	PN	Hybrid	2,460	60	7	8	7.4	0.0	31.4	4.8	38.8	4.8	43.6	2,378	7,134	No	0.1	16.604	1
907022	PN	Hybrid	1,292	25	7	7	4.0	0.0	11.5	7.8	15.5	7.8	23.3	0	0	Yes	0.1	7.876	0
907032	PN	Hybrid	787	16	6	7	1.6	0.0	7.0	3.8	8.6	3.8	12.4	0	0	No	0.1	6.236	0
907042	PN	Hybrid	1,859	36	4	10	6.0	0.0	18.8	14.0	24.8	14.0	38.8	0	0	No	0.1	8.960	0
907112	PN	Hybrid	1,846	35	6	15	4.0	0.1	16.0	7.5	20.0	7.6	27.6	0	0	Yes	0.3	9.240	0
907122	PN	Hybrid	844	20	9	2	2.3	0.0	12.8	3.2	15.1	3.2	18.3	0	0	Yes	1.0	9.984	0
907132	PN	Hybrid	1,713	47	10	8	4.8	0.0	18.4	9.4	23.2	9.4	32.6	0	0	Yes	0.3	8.106	0
907157	PN	Hybrid	1	0	1	0	0.4	0.0	0.0	0.1	0.4	0.1	0.5	0	0	No	0.0	0.000	0
907172	PN	Hybrid	1,669	44	10	7	7.5	0.1	13.8	9.5	21.3	9.6	30.9	0	0	Yes	0.1	7.998	0
907232	PN	Hybrid	2,623	81	9	22	8.0	0.0	47.0	12.6	55.0	12.6	67.6	0	0	Yes	0.1	11.994	0
907252	PN	Hybrid	2,982	34	21	12	6.5	0.4	36.1	18.1	42.6	18.5	61.1	0	0	Yes	0.5	14.063	0
907262	PN	Hybrid	3,274	86	12	8	11.0	0.0	59.6	7.4	70.6	7.4	78.0	3,258	229,689	Yes	0.5	18.101	1
907272	PN	ОН	2,554	92	6	15	15.3	0.3	57.6	3.0	72.9	3.3	76.2	0	0	Yes	0.1	12.560	0
907282	PN	Hybrid	1,709	61	11	9	6.6	0.0	21.5	3.9	28.1	3.9	32.0	0	0	Yes	0.1	10.160	0
907292	PN	Hybrid	2,055	47	8	10	5.8	0.0	26.2	4.4	32.0	4.4	36.4	0	0	Yes	0.3	11.348	0
907302	PN	Hybrid	8	0	2	0	0.1	0.0	0.0	0.8	0.1	0.8	0.9	0	0	No	0.1	0.610	0
907332	PN	Hybrid	1,570	11	9	7	3.3	0.4	15.1	18.7	18.4	19.1	37.5	0	0	Yes	0.3	7.788	0
907342	PN	Hybrid	3,711	100	74	12	12.2	0.5	13.5	15.9	25.7	16.4	42.1	0	0	Yes	0.3	17.792	0
907352	PN	Hybrid	2,388	16	15	6	3.1	0.0	11.3	7.1	14.4	7.1	21.5	0	0	Yes	0.1	8.525	0

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Feeder ID#	Sub Region	FDR Type	Custs	OH Lat	UG Lat	Hybrid Lat	OH Fdr & OCR Miles	UG Fdr Miles	OH Lat Miles	UG Lat Miles	Total OH Miles	Total UG Miles	Total Miles	FDR CI	FDR CMI	Is the Feeder Circuit Looped?	Load growth (MVA D pk CY - pk Prior	Peak Load (MVA)	Number of N on FDR
907362	PN	Hybrid	2,090	17	29	4	4.5	0.2	3.3	7.5	7.8	7.7	15.5	0	0	Yes	0.3	10.292	0
907372	PN	Hybrid	2,862	44	24	8	5.3	0.0	10.0	28.2	15.3	28.2	43.5	0	0	Yes	0.3	14.293	0
907462	PN	Hybrid	953	14	1	2	0.0	2.2	7.5	5.1	7.5	7.3	14.8	0	0	Yes	0.3	6.582	0
907492	PN	ОН	845	39	2	6	4.8	0.0	26.1	1.2	30.9	1.2	32.1	0	0	No	0.1	5.260	0
907512	PN	Hybrid	1,720	25	8	10	3.3	0.0	13.5	4.4	16.8	4.4	21.2	2,692	38,025	Yes	0.3	11.601	2
907522	PN	Hybrid	1,415	16	27	8	4.2	0.0	8.4	8.6	12.6	8.6	21.2	0	0	Yes	0.3	12.287	0
907532	PN	Hybrid	1,325	5	2	1	0.9	1.4	2.0	20.6	2.9	22.0	24.9	2	13	Yes	0.3	6.926	1
907542	PN	Hybrid	372	0	2	0	0.8	1.5	0.0	7.8	0.8	9.3	10.1	0	0	Yes	0.3	8.919	0
907582	PN	Hybrid	2,886	80	7	12	8.2	0.0	33.8	4.6	42.0	4.6	46.6	2,882	80,312	Yes	0.1	12.563	1
907592	PN	Hybrid	890	13	8	1	2.6	0.0	3.8	5.9	6.4	5.9	12.3	0	0	Yes	0.1	4.610	0
907602	PN	Hybrid	630	12	16	11	2.5	0.1	3.4	3.1	5.9	3.2	9.1	0	0	No	0.3	6.133	0
907612	PN	Hybrid	1,969	36	21	16	4.7	0.0	11.6	5.2	16.3	5.2	21.5	0	0	Yes	0.3	12.348	0
907622	PN	Hybrid	1,318	29	4	4	3.0	0.0	8.8	2.0	11.8	2.0	13.8	0	0	Yes	0.1	6.815	0
907632	PN	Hybrid	1,565	41	3	3	3.3	0.0	11.3	4.7	14.6	4.7	19.3	0	0	No	0.1	8.432	0
907642	PN	Hybrid	1,501	26	13	3	3.9	0.0	8.1	3.5	12.0	3.5	15.5	0	0	No	0.1	6.432	0
907652	PN	Hybrid	348	3	19	2	3.2	0.2	0.6	4.8	3.8	5.0	8.8	0	0	Yes	0.3	12.941	0
907662	PN	Hybrid	1,723	20	13	6	5.2	0.0	14.1	5.6	19.3	5.6	24.9	0	0	No	0.1	13.428	0
907682	PN	Hybrid	2,150	29	23	9	6.0	0.4	8.6	8.0	14.6	8.4	23.0	0	0	No	0.1	8.943	0
907692	PN	Hybrid	116	2	1	1	1.6	0.0	1.5	0.5	3.1	0.5	3.6	0	0	Yes	0.1	2.140	0
907702	PN	Hybrid	1,537	25	2	5	3.8	0.0	9.2	6.2	13.0	6.2	19.2	0	0	Yes	0.1	7.971	0
907712	PN	Hybrid	927	26	4	1	3.5	0.0	7.4	1.2	10.9	1.2	12.1	0	0	Yes	0.1	3.577	0
907722	PN	ОН	1,072	27	0	1	3.2	0.0	12.0	0.7	15.2	0.7	15.9	0	0	Yes	0.1	4.640	0
907742	PN	Hybrid	2,101	41	4	4	6.1	0.0	15.8	1.8	21.9	1.8	23.7	2,238	85,383	Yes	0.1	14.697	3
907752	PN	Hybrid	2,119	44	22	8	6.5	0.0	15.2	5.5	21.7	5.5	27.2	0	0	Yes	0.1	9.337	0
907762	PN	ОН	1,399	24	3	2	2.8	0.0	11.3	0.4	14.1	0.4	14.5	3,322	160,954	Yes	0.1	6.097	2

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907772	PN	Hybrid	619	18	6	3	2.6	0.0	5.6	1.4	8.2	1.4	9.6	0	0	Yes	0.1	9.738	0
907782	PN	Hybrid	1,130	46	0	5	4.9	0.0	10.8	1.1	15.7	1.1	16.8	0	0	Yes	0.3	12.590	0
907792	PN	Hybrid	2,148	61	9	8	5.2	0.0	17.5	9.1	22.7	9.1	31.8	0	0	Yes	0.1	11.761	0
907802	PN	Hybrid	1,343	11	21	5	4.5	0.0	2.7	5.8	7.2	5.8	13.0	1,340	118,612	No	0.5	13.927	1
907822	PN	Hybrid	1,940	19	24	4	3.5	0.0	5.7	7.5	9.2	7.5	16.7	0	0	Yes	0.5	10.231	0
907832	PN	Hybrid	2,924	78	13	5	8.5	0.0	22.8	8.8	31.3	8.8	40.1	0	0	Yes	0.1	11.304	0
907842	PN	Hybrid	3,460	88	22	14	9.7	0.0	24.1	13.6	33.8	13.6	47.4	281	29,107	Yes	0.1	15.374	1
907872	PN	Hybrid	410	14	9	5	2.6	0.2	5.4	1.3	8.0	1.5	9.5	0	0	Yes	0.3	11.212	0
907882	PN	Hybrid	889	27	24	10	4.2	0.0	8.3	4.1	12.5	4.1	16.6	0	0	Yes	1.0	13.010	0
907892	PN	Hybrid	95	0	1	0	0.6	0.1	0.0	0.9	0.6	1.0	1.6	0	0	No	0.5	12.411	0
907902	FW	Hybrid	2,080	96	23	14	16.4	0.0	31.7	6.0	48.1	6.0	54.1	0	0	No	0.1	14.484	0
907912	FW	ОН	1,648	57	3	7	10.8	0.0	50.5	1.8	61.3	1.8	63.1	0	0	No	0.1	9.291	0
907922	PN	Hybrid	2,257	38	10	9	4.2	0.6	11.5	13.9	15.7	14.5	30.2	2,140	131,967	Yes	0.1	10.388	1
907932	PN	Hybrid	2,054	25	30	13	4.5	0.0	11.0	8.0	15.5	8.0	23.5	0	0	No	0.1	12.121	0
907942	PN	Hybrid	667	25	10	6	3.7	0.7	4.8	2.0	8.5	2.7	11.2	0	0	Yes	0.3	9.520	0
907962	FW	ОН	483	27	1	2	3.7	0.0	26.8	0.4	30.5	0.4	30.9	0	0	No	0.1	2.550	0
907992	PC	Hybrid	2,137	51	10	12	13.7	0.0	28.4	14.3	42.1	14.3	56.4	1,853	21,310	Yes	1.0	12.558	1
908012	PC	Hybrid	26	2	4	1	1.1	0.2	0.4	0.5	1.5	0.7	2.2	46	5,552	No	0.3	2.270	2
908032	PC	Hybrid	299	25	6	3	13.2	0.0	11.8	11.7	25.0	11.7	36.7	0	0	No	0.1	1.470	0
908052	PC	UG	1	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	No	0.0	0.000	0
908062	PC	Hybrid	481	26	8	4	9.0	0.0	22.4	3.7	31.4	3.7	35.1	0	0	No	0.5	3.810	0
908112	PC	Hybrid	3,633	32	25	5	3.4	0.6	8.8	2.5	12.2	3.1	15.3	0	0	Yes	0.3	13.707	0
908122	PC	Hybrid	1,652	21	54	9	5.2	0.9	4.1	18.6	9.3	19.5	28.8	1,638	2,293	Yes	1.0	14.542	1
908132	PC	Hybrid	2,491	6	18	9	4.3	0.9	6.5	21.5	10.8	22.4	33.2	3,412	7,336	Yes	3.0	12.070	2
908142	PC	Hybrid	1,295	1	15	0	3.1	1.9	1.9	15.3	5.0	17.2	22.2	5,055	27,028	Yes	0.0	0.000	4

Α	В	С	D	E	F	G	н	ı	J	К	L	М	N	0	Р	Q	R	S	Т
Feeder ID#	Sub Region	FDR Type	Custs	OH Lat	UG Lat	Hybrid Lat	OH Fdr & OCR Miles	UG Fdr Miles	OH Lat Miles	UG Lat Miles	Total OH Miles	Total UG Miles	Total Miles	FDR CI	FDR CMI	Is the Feeder Circuit Looped?	Load growth (MVA D pk CY - pk Prior	Peak Load (MVA)	Number of N on FDR
908162	FW	Hybrid	2,704	22	34	16	5.2	0.2	9.4	25.8	14.6	26.0	40.6	2,617	227,025	No	1.5	15.027	1
908172	FW	Hybrid	1,964	0	1	3	0.0	0.8	1.1	16.8	1.1	17.6	18.7	0	0	Yes	1.3	13.737	0
908182	FW	Hybrid	1,012	0	16	0	1.2	0.9	0.0	3.7	1.2	4.6	5.8	0	0	Yes	0.3	8.066	0
908202	PC	Hybrid	2,117	49	8	10	6.3	0.0	18.4	8.2	24.7	8.2	32.9	0	0	Yes	0.1	10.369	0
908222	PC	Hybrid	871	5	11	1	1.7	19.7	2.4	3.1	4.1	22.8	26.9	0	0	No	0.3	2.960	0
908232	PC	UG	1	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	No	0.0	0.000	0
908252	PC	UG	1	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	No	0.0	0.000	0
908262	PC	ОН	1	0	0	0	3.0	0.0	0.0	0.0	3.0	0.0	3.0	0	0	No	0.0	0.000	0
908282	PC	Hybrid	2,537	47	16	11	5.4	0.0	20.4	7.8	25.8	7.8	33.6	0	0	No	0.1	8.498	0
908332	PC	Hybrid	2,971	39	24	15	10.3	0.0	30.5	21.7	40.8	21.7	62.5	0	0	Yes	0.1	10.812	0
908342	PC	Hybrid	2,223	49	13	15	8.4	0.0	20.1	2.9	28.5	2.9	31.4	7	588	No	0.1	9.275	1
908352	PC	Hybrid	3,026	34	18	8	2.8	0.0	10.5	3.7	13.3	3.7	17.0	0	0	No	0.5	13.195	0
908362	PC	Hybrid	3,323	27	28	11	8.8	0.0	9.3	13.1	18.1	13.1	31.2	0	0	No	1.8	13.246	0
908372	PC	Hybrid	1,233	3	20	5	1.0	0.0	1.6	9.7	2.6	9.7	12.3	0	0	Yes	1.0	13.789	0
908382	PC	Hybrid	104	0	5	1	0.6	0.1	0.4	1.2	1.0	1.3	2.3	0	0	Yes	1.3	9.217	0
908392	PC	Hybrid	1,468	37	14	5	5.3	0.1	10.3	2.3	15.6	2.4	18.0	0	0	Yes	0.1	8.580	0
908412	PC	Hybrid	1,356	40	14	16	6.9	0.0	10.8	2.0	17.7	2.0	19.7	2,471	33,028	No	0.5	9.885	2
908432	PC	Hybrid	1,474	46	5	8	4.2	0.0	10.4	1.2	14.6	1.2	15.8	0	0	Yes	0.1	7.050	0
908442	PC	Hybrid	1,082	45	8	5	5.9	0.0	5.7	0.8	11.6	0.8	12.4	0	0	Yes	0.1	5.760	0
908452	PC	Hybrid	965	20	25	11	3.4	0.0	4.8	7.8	8.2	7.8	16.0	0	0	Yes	0.1	11.056	0
908472	PC	Hybrid	2,601	73	13	15	9.1	0.7	15.3	2.3	24.4	3.0	27.4	0	0	Yes	0.1	10.018	0
908482	PC	Hybrid	622	37	16	6	9.6	0.1	4.3	1.6	13.9	1.7	15.6	202	10,908	No	0.1	10.990	1
908492	PC	Hybrid	376	13	5	3	1.8	0.0	3.0	1.3	4.8	1.3	6.1	0	0	Yes	0.1	2.518	0
908512	PC	Hybrid	1,193	2	8	3	0.0	0.5	1.9	13.0	1.9	13.5	15.4	0	0	No	0.5	7.179	0
908522	PC	Hybrid	2,931	16	36	16	6.4	0.2	7.7	19.9	14.1	20.1	34.2	0	0	No	0.8	16.604	0

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Feeder ID#	Sub Region	FDR Type	Custs	OH Lat	UG Lat	Hybrid Lat	OH Fdr & OCR Miles	UG Fdr Miles	OH Lat Miles	UG Lat Miles	Total OH Miles	Total UG Miles	Total Miles	FDR CI	FDR CMI	Is the Feeder Circuit Looped?	Load growth (MVA D pk CY - pk Prior	Peak Load (MVA)	Number of N on FDR
908532	PC	Hybrid	2,204	19	19	6	3.4	0.2	3.8	2.8	7.2	3.0	10.2	4,269	248,560	No	0.3	15.700	2
908542	PC	Hybrid	3,319	8	11	4	1.1	0.1	0.9	4.1	2.0	4.2	6.2	3,244	5,407	No	1.0	14.052	1
908552	PC	Hybrid	2,509	22	13	8	2.0	0.2	10.2	8.1	12.2	8.3	20.5	0	0	Yes	0.5	11.528	0
908562	PC	Hybrid	2,264	21	25	7	1.1	0.4	6.7	7.9	7.8	8.3	16.1	0	0	Yes	0.3	11.233	0
908572	PC	Hybrid	2,327	68	26	11	9.6	0.0	17.6	5.6	27.2	5.6	32.8	0	0	Yes	0.1	11.030	0
908582	PC	Hybrid	2,883	18	21	4	3.8	0.3	6.9	8.0	10.7	8.3	19.0	0	0	Yes	0.5	15.282	0
908592	PC	Hybrid	11	2	1	1	1.0	0.0	0.7	0.3	1.7	0.3	2.0	0	0	No	0.1	6.352	0
908602	PC	Hybrid	2,826	63	21	14	8.1	0.0	16.6	21.3	24.7	21.3	46.0	0	0	Yes	0.3	12.178	0
908612	PC	Hybrid	1,005	36	20	3	6.9	0.0	10.3	7.4	17.2	7.4	24.6	127	472	Yes	0.3	6.067	1
908622	PC	Hybrid	1,194	35	26	9	7.6	0.0	10.3	8.7	17.9	8.7	26.6	0	0	Yes	0.1	8.700	0
908642	PC	Hybrid	2,730	31	28	13	4.2	0.0	7.2	10.1	11.4	10.1	21.5	0	0	Yes	0.5	11.309	0
908672	PC	Hybrid	2,252	17	35	6	5.2	0.0	4.1	24.0	9.3	24.0	33.3	0	0	Yes	0.5	11.595	0
908682	PC	Hybrid	3,312	30	23	11	4.7	0.0	8.3	9.4	13.0	9.4	22.4	3,293	4,446	No	0.5	13.350	1
908702	PC	ОН	1,630	53	12	4	6.4	0.0	14.6	0.9	21.0	0.9	21.9	0	0	Yes	0.1	6.477	0
908712	PC	Hybrid	1,232	59	5	10	6.5	2.0	11.9	1.3	18.4	3.3	21.7	1,222	1,548	Yes	0.1	9.790	1
908722	PC	Hybrid	2,052	77	9	8	7.7	0.0	20.6	2.4	28.3	2.4	30.7	1,702	34,012	Yes	0.1	11.545	2
908732	PC	Hybrid	2,150	62	9	7	8.6	0.1	13.0	1.4	21.6	1.5	23.1	0	0	Yes	0.1	10.716	0
908782	PC	Hybrid	367	16	29	7	4.0	0.1	5.2	3.1	9.2	3.2	12.4	746	15,233	Yes	0.3	6.800	2
908792	PC	Hybrid	2,560	109	12	11	10.0	0.0	32.1	4.2	42.1	4.2	46.3	0	0	Yes	0.1	10.977	0
908802	PC	Hybrid	2,597	52	27	8	7.8	0.0	15.8	13.8	23.6	13.8	37.4	0	0	No	0.1	18.465	0
908812	PC	Hybrid	2,968	16	27	15	4.7	0.0	15.9	12.0	20.6	12.0	32.6	0	0	Yes	1.3	12.741	0
908822	PC	Hybrid	2,703	39	17	20	6.7	0.0	19.0	9.6	25.7	9.6	35.3	0	0	Yes	0.1	12.853	0
908842	FW	Hybrid	1,879	1	18	5	1.5	0.0	1.6	16.6	3.1	16.6	19.7	0	0	Yes	0.5	16.831	0
908852	PC	Hybrid	1,482	46	3	8	6.7	0.0	15.8	1.2	22.5	1.2	23.7	0	0	Yes	0.1	6.988	0
908872	FW	Hybrid	977	9	22	6	3.4	0.0	4.1	6.9	7.5	6.9	14.4	0	0	No	0.5	11.860	0

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Feeder ID#	Sub Region	FDR Type	Custs	OH Lat	UG Lat	Hybrid Lat	OH Fdr & OCR Miles	UG Fdr Miles	OH Lat Miles	UG Lat Miles	Total OH Miles	Total UG Miles	Total Miles	FDR CI	FDR CMI	Is the Feeder Circuit Looped?	Load growth (MVA D pk CY - pk Prior	Peak Load (MVA)	Number of N on FDR
908882	FW	Hybrid	2,568	12	19	8	2.0	0.7	2.2	8.1	4.2	8.8	13.0	0	0	Yes	0.3	10.356	0
908892	FW	Hybrid	2,474	9	17	11	2.3	4.2	4.5	5.9	6.8	10.1	16.9	0	0	Yes	0.3	13.042	0
908932	FW	Hybrid	1,799	51	12	20	7.0	0.0	34.1	8.2	41.1	8.2	49.3	0	0	Yes	1.5	11.739	0
908942	FW	Hybrid	47	8	1	3	1.6	0.0	1.5	0.4	3.1	0.4	3.5	0	0	No	0.5	2.012	0
908952	PC	ОН	25	3	1	3	0.9	0.0	9.3	0.2	10.2	0.2	10.4	0	0	No	0.1	1.532	0
908962	PC	Hybrid	3,172	23	35	10	5.2	0.4	10.4	12.4	15.6	12.8	28.4	0	0	Yes	0.3	13.037	0
908972	PC	Hybrid	3,722	54	14	8	8.8	0.1	17.9	14.7	26.7	14.8	41.5	3,117	30,910	Yes	0.3	13.103	1
908982	FW	Hybrid	536	0	1	1	1.5	0.1	1.0	2.5	2.5	2.6	5.1	0	0	Yes	0.5	5.540	0
909042	FW	Hybrid	2,229	6	21	8	2.8	0.1	7.6	17.8	10.4	17.9	28.3	1,814	8,012	Yes	0.5	9.944	1
909052	FW	Hybrid	1,935	21	15	10	4.4	0.0	9.6	4.4	14.0	4.4	18.4	0	0	Yes	0.2	10.525	0
909062	FW	Hybrid	976	7	8	5	0.8	0.1	1.3	5.7	2.1	5.8	7.9	0	0	No	0.5	6.126	0
909082	FW	Hybrid	3,046	11	20	4	3.8	0.8	1.4	11.9	5.2	12.7	17.9	0	0	Yes	0.5	13.884	0
909092	PC	ОН	14	6	0	0	2.8	0.0	2.6	0.1	5.4	0.1	5.5	54	2,923	No	0.1	2.362	6
909112	PC	Hybrid	1,113	76	10	10	16.5	0.0	28.4	3.1	44.9	3.1	48.0	0	0	No	0.1	6.039	0
909122	PC	Hybrid	221	15	11	0	3.1	0.1	4.3	0.7	7.4	0.8	8.2	0	0	No	0.5	9.495	0
909132	FW	Hybrid	2,386	28	28	11	3.0	0.5	10.9	12.0	13.9	12.5	26.4	0	0	Yes	0.3	10.410	0
909142	FW	Hybrid	2,197	42	11	14	4.2	0.4	17.7	4.8	21.9	5.2	27.1	1,742	7,491	Yes	0.1	10.581	1
909152	FW	Hybrid	1,802	25	11	13	4.6	0.0	12.5	3.4	17.1	3.4	20.5	956	6,692	Yes	0.1	11.066	1
909162	FW	Hybrid	1,246	14	3	5	2.9	0.0	12.2	2.8	15.1	2.8	17.9	1,192	150,526	No	0.1	5.680	1
909172	FW	Hybrid	2,157	19	4	10	4.3	0.0	12.4	9.7	16.7	9.7	26.4	943	41,369	Yes	0.1	13.446	1
909182	FW	ОН	870	69	6	11	11.4	0.0	62.0	1.9	73.4	1.9	75.3	0	0	No	0.3	6.032	0
909192	FW	Hybrid	2,583	63	9	11	6.7	0.0	34.0	3.1	40.7	3.1	43.8	0	0	Yes	0.5	13.471	0
909202	PC	ОН	693	67	11	3	10.6	0.0	26.4	1.1	37.0	1.1	38.1	0	0	Yes	0.1	9.467	0
909212	PC	ОН	1,661	115	5	13	18.6	0.0	65.2	2.6	83.8	2.6	86.4	0	0	Yes	0.1	9.467	0
909222	PC	Hybrid	1,029	49	15	16	8.7	0.0	18.4	2.3	27.1	2.3	29.4	0	0	Yes	0.1	9.542	0

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909232	FW	Hybrid	1,894	34	5	10	3.3	0.0	21.3	2.4	24.6	2.4	27.0	1,877	38,103	No	0.1	7.873	1
909242	FW	Hybrid	1,711	21	13	11	6.4	0.0	11.8	9.5	18.2	9.5	27.7	0	0	Yes	0.8	11.194	0
909252	FW	Hybrid	2,503	27	19	14	7.2	0.0	14.9	16.3	22.1	16.3	38.4	0	0	Yes	0.5	17.218	0
909292	FW	Hybrid	2,122	25	12	10	3.2	0.0	6.7	2.7	9.9	2.7	12.6	0	0	Yes	0.1	8.375	0
909312	FW	Hybrid	2,248	29	3	5	2.5	0.0	15.7	1.0	18.2	1.0	19.2	0	0	No	0.1	8.976	0
909322	FW	Hybrid	1,465	24	4	6	1.8	0.0	7.5	0.7	9.3	0.7	10.0	0	0	Yes	0.1	5.443	0
909332	FW	Hybrid	1,496	24	8	8	3.8	0.0	8.7	4.5	12.5	4.5	17.0	0	0	Yes	0.1	7.200	0
909342	FW	Hybrid	1,444	31	6	7	3.7	0.0	8.6	1.4	12.3	1.4	13.7	0	0	No	0.1	6.870	0
909352	FW	Hybrid	1,796	44	12	4	4.1	0.0	10.7	2.1	14.8	2.1	16.9	0	0	Yes	0.1	7.368	0
909362	FW	Hybrid	1,731	30	5	8	3.3	0.0	13.2	0.9	16.5	0.9	17.4	0	0	Yes	0.1	12.774	0
909372	FW	ОН	1,681	13	3	4	3.2	0.0	12.7	0.3	15.9	0.3	16.2	0	0	Yes	0.1	10.400	0
909382	FW	Hybrid	835	18	6	4	2.4	0.0	5.4	0.8	7.8	0.8	8.6	0	0	Yes	0.5	5.474	0
909402	FW	Hybrid	2,712	15	19	10	3.5	0.7	3.6	1.7	7.1	2.4	9.5	2,269	11,874	Yes	0.3	9.768	1
909412	FW	Hybrid	2,210	28	16	9	3.0	0.3	7.4	1.8	10.4	2.1	12.5	0	0	Yes	0.1	8.754	0
909422	FW	Hybrid	839	23	4	6	2.5	0.0	3.8	0.4	6.3	0.4	6.7	0	0	Yes	0.1	4.573	0
909462	FW	Hybrid	3,067	37	24	14	4.3	0.0	18.8	14.1	23.1	14.1	37.2	0	0	No	0.3	12.977	0
909472	FW	Hybrid	2,517	20	33	13	4.9	0.1	12.2	26.1	17.1	26.2	43.3	0	0	No	0.3	13.297	0
909492	FW	Hybrid	1,588	17	14	14	3.7	0.6	5.3	3.3	9.0	3.9	12.9	0	0	Yes	0.5	11.633	0
909522	PC	ОН	1,718	248	7	10	62.0	0.2	108.9	4.5	170.9	4.7	175.6	0	0	No	0.1	7.051	0
909532	FW	Hybrid	2,531	11	21	8	3.5	0.0	2.0	11.2	5.5	11.2	16.7	0	0	Yes	0.3	15.154	0
909562	FW	Hybrid	1,441	30	19	10	2.0	0.6	4.7	3.1	6.7	3.7	10.4	0	0	Yes	0.5	12.093	0
909572	FW	Hybrid	2,883	6	40	7	2.4	0.5	2.1	7.8	4.5	8.3	12.8	0	0	Yes	0.1	14.667	0
909592	PC	Hybrid	1,137	83	21	4	59.2	0.0	61.1	15.2	120.3	15.2	135.5	106	3,286	No	0.5	5.508	1
909602	FW	Hybrid	1,605	32	10	11	4.1	0.0	7.1	8.0	11.2	8.0	19.2	0	0	Yes	0.1	8.823	0
909612	FW	Hybrid	2,304	51	21	9	4.4	0.0	15.0	3.3	19.4	3.3	22.7	0	0	Yes	0.1	10.288	0

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909622	FW	Hybrid	1,362	58	15	11	3.5	0.0	9.8	2.0	13.3	2.0	15.3	1,309	145,621	Yes	0.1	8.487	1
909632	FW	Hybrid	266	29	8	6	3.0	0.0	2.6	0.4	5.6	0.4	6.0	0	0	Yes	0.1	7.266	0
909672	FW	Hybrid	2,826	69	6	11	7.7	0.0	40.7	8.5	48.4	8.5	56.9	0	0	Yes	0.5	13.955	0
909682	FW	Hybrid	1,921	20	13	9	3.9	0.0	8.8	15.1	12.7	15.1	27.8	0	0	No	0.5	12.907	0
909692	FW	Hybrid	2,367	59	7	8	6.0	0.0	26.4	2.8	32.4	2.8	35.2	0	0	Yes	0.5	9.110	0
909702	PC	ОН	1	0	0	0	3.4	0.0	0.0	0.0	3.4	0.0	3.4	0	0	No	0.1	3.430	0
909752	PC	ОН	12	0	5	0	1.5	0.0	0.0	0.0	1.5	0.0	1.5	0	0	No	0.0	0.000	0
909792	FW	Hybrid	1,690	28	11	8	4.1	0.0	14.5	5.5	18.6	5.5	24.1	1,045	21,771	Yes	1.8	7.998	1
909802	PC	ОН	193	21	0	0	3.6	0.0	11.3	0.0	14.9	0.0	14.9	192	381	No	0.1	0.950	1
909812	FW	Hybrid	1,127	20	11	7	11.5	0.0	14.6	7.7	26.1	7.7	33.8	0	0	Yes	1.0	6.216	0
909828	FW	ОН	223	22	4	1	4.5	0.0	6.3	0.5	10.8	0.5	11.3	65	2,513	No	0.5	1.392	1
909832	PC	ОН	2,216	140	12	10	23.7	0.0	77.6	1.7	101.3	1.7	103.0	0	0	No	0.1	12.712	0
909854	PC	ОН	1	0	0	0	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0	0	No	0.0	0.000	0
909912	FW	Hybrid	1,598	13	15	5	3.8	0.0	10.0	9.8	13.8	9.8	23.6	0	0	No	0.1	6.663	0
909942	FW	Hybrid	2,034	26	0	5	5.4	0.0	17.8	3.7	23.2	3.7	26.9	0	0	Yes	1.0	8.784	0
915002	FW	Hybrid	3	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	174	No	0.0	0.000	1
915034	PN	UG	0	0	0	0	0.0	0.3	0.0	0.0	0.0	0.3	0.3	0	0	No	0.0	0.000	0
915044	PN	UG	1	0	0	0	0.0	0.3	0.0	0.0	0.0	0.3	0.3	0	0	No	0.0	0.000	0
915062	PC	Hybrid	189	4	8	1	7.1	1.6	4.4	9.4	11.5	11.0	22.5	0	0	No	0.5	3.409	0
915242	FW	Hybrid	495	0	15	3	1.6	0.0	0.1	8.2	1.7	8.2	9.9	0	0	Yes	0.5	8.857	0
915252	FW	Hybrid	1,508	1	11	2	1.5	0.0	0.3	12.5	1.8	12.5	14.3	0	0	Yes	1.0	9.079	0
915262	FW	Hybrid	967	1	17	2	2.0	0.0	1.0	3.9	3.0	3.9	6.9	0	0	Yes	0.3	10.067	0
915472	PC	Hybrid	352	16	3	3	1.7	0.0	1.5	1.6	3.2	1.6	4.8	0	0	Yes	1.0	2.178	0
915482	PC	Hybrid	2,071	23	22	5	6.5	0.6	7.1	8.0	13.6	8.6	22.2	1,978	3,956	Yes	2.0	8.113	1
915602	PN	Hybrid	1,713	18	11	6	4.2	0.0	7.2	21.6	11.4	21.6	33.0	0	0	Yes	0.1	14.018	0

Α	В	С	D	E	F	G	Н	ı	J	К	L	М	N	0	Р	Q	R	S	Т
Feeder ID#	Sub Region	FDR Type	Custs	OH Lat	UG Lat	Hybrid Lat	OH Fdr & OCR Miles	UG Fdr Miles	OH Lat Miles	UG Lat Miles	Total OH Miles	Total UG Miles	Total Miles	FDR CI	FDR CMI	Is the Feeder Circuit Looped?	Load growth (MVA D pk CY - pk Prior	Peak Load (MVA)	Number of N on FDR
915612	PN	ОН	0	0	0	0	0.9	0.0	0.0	0.0	0.9	0.0	0.9	0	0	No	0.1	15.005	0
915652	PN	Hybrid	2	0	0	0	0.7	4.1	0.0	0.0	0.7	4.1	4.8	0	0	No	0.1	8.581	0
915672	PN	Hybrid	53	7	2	0	1.3	0.2	1.1	0.2	2.4	0.4	2.8	0	0	No	0.1	11.998	0
915702	PN	ОН	2,198	68	2	11	6.0	0.4	15.2	0.7	21.2	1.1	22.3	1,400	2,800	Yes	0.2	9.924	1
915712	PN	Hybrid	848	28	14	8	5.6	0.2	6.4	1.7	12.0	1.9	13.9	0	0	Yes	0.2	12.158	0
915762	PN	Hybrid	824	14	8	11	3.1	0.2	4.5	5.6	7.6	5.8	13.4	2,010	30,154	Yes	0.1	14.803	3
915772	PN	Hybrid	744	8	7	3	3.4	0.0	4.8	0.5	8.2	0.5	8.7	0	0	Yes	0.2	10.171	0

Transmiss	ion/Substation	Outage Data	3
Outage Event Description	Date of Event	Non-Storm Excluded CMI	Non-Storm Excluded CI
Transmission/Substation	1/10/2019	175,310	3,101
Transmission/Substation	1/24/2019	264,169	1,630
Transmission/Substation	2/28/2019	82,855	2,270
Transmission/Substation	3/9/2019	10,242	3,414
Transmission/Substation	3/9/2019	1,395	465
Transmission/Substation	3/9/2019	11,016	3,672
Transmission/Substation	3/9/2019	567	189
Transmission/Substation	3/27/2019	1,189,102	1,796
Transmission/Substation	3/27/2019	818,290	1,235
Transmission/Substation	3/27/2019	1,428,138	2,154
Transmission/Substation	4/19/2019	22,656	472
Transmission/Substation	4/19/2019	9,457	193
Transmission/Substation	4/19/2019	9,605	845
Transmission/Substation	5/12/2019	118,147	1,796
Transmission/Substation	5/12/2019	81,514	1,236
Transmission/Substation	5/12/2019	143,117	2,157
Transmission/Substation	5/26/2019	7,293	1,831
Transmission/Substation	5/26/2019	7,682	2,095
Transmission/Substation	5/26/2019	4,017	964
Transmission/Substation	5/26/2019	6,574	1,517
Transmission/Substation	5/26/2019	10,375	788
Transmission/Substation	6/3/2019	24,805	1,865
Transmission/Substation	6/3/2019	7,365	535
Transmission/Substation	6/9/2019	96,792	8,066
Transmission/Substation	6/9/2019	599,475	7,993
Transmission/Substation	6/9/2019	415,125	5,535
Transmission/Substation	6/9/2019	9,380	2,345
Transmission/Substation	6/9/2019	4,668	1,556
Transmission/Substation	6/9/2019	16,116	8,058
Transmission/Substation	6/14/2019	131,268	2,483
Transmission/Substation	7/9/2019	148,908	1,409
Transmission/Substation	7/19/2019	42,703	707
Transmission/Substation	7/19/2019	53,181	1,459
Transmission/Substation	8/13/2019	158,163	847
Transmission/Substation	8/20/2019	15,354	5,118
Transmission/Substation	8/20/2019	15,724	3,931
Transmission/Substation	8/20/2019	13,113	4,371
Transmission/Substation	8/20/2019	14,244	3,561
Transmission/Substation	8/20/2019	7,771	1,140
Transmission/Substation	9/1/2019	630	105
Transmission/Substation	9/1/2019	38,868	1,453
Transmission/Substation	9/4/2019	7,213	2,739
Transmission/Substation	9/4/2019	4,356	1,654

Transmiss	ion/Substation	Outage Data	9
Outage Event Description	Date of Event	Non-Storm Excluded CMI	Non-Storm Excluded CI
Transmission/Substation	9/4/2019	9,550	3,631
Transmission/Substation	10/9/2019	147,150	2,366
Transmission/Substation	10/9/2019	27,303	1,437
Transmission/Substation	11/13/2019	14,264	3,566
Transmission/Substation	11/13/2019	10,548	2,637
Transmission/Substation	11/13/2019	55,790	1,594
Transmission/Substation	11/13/2019	10,820	2,164
Transmission/Substation	11/13/2019	23,660	676
Transmission/Substation	11/13/2019	34,020	972
Transmission/Substation	12/10/2019	28,520	2,852
Transmission/Substation	12/10/2019	24,640	2,464

APPENDIX 2

Gulf Power Company Annual Wood Pole Inspection Report (Reporting Year 2019)

а	b	С	d	е	f	g	h	i	j	k	I	m
Total # of Wooden Poles in the Company Inventory	# of Pole Inspections Planned this Annual Inspection	# of Poles Inspected this Annual Inspection	# of Poles Failing Inspection this Annual Inspection	Pole Failure Rate (%) this Annual Inspection	# of Poles Designated for Replacement this Annual Inspection	Total # of Poles Replaced this Annual Inspection	# of Poles Requiring Minor Follow-up this Annual Inspection	# of Poles Overloaded this Annual Inspection	Method(s) V = Visual E = Excavation P = Prod S = Sound B = Bore R = Resistograph	# of Pole Inspections Planned for Next Annual Inspection Cycle	Total # of Poles Inspected (Cumulative) in the 8-Year Cycle To Date	% of Poles Inspected (Cumulative) in the 8-Year Cycle To Date
209,156 (Note 3)	26,000	25,898 (Note 1)	990	3.82%	960	614 (Note 2)	30		V, E, S, B	26,000	158,204	76%
	If b – c > 0, provide explanation		If started the	sixth year	of the second	d eight-year o	cycle in 2019.					
	0, provide nation	Note 2: Po	le inspection	s were com	npleted in 201	9 and remai	ning repairs h	nave been so	cheduled for 2020			
		Note 3: Thi	s total repre	sents wood	en poles only	<i>/</i> .						
selection	ption of criteria for ections	Gulf is syst	ematically m	noving acro	ss its system.	. Poles are s	elected for ins	spection on a	a geographical ba	sis.		

Report on Collaborative Research for Hurricane Hardening

Provided by

The Public Utility Research Center University of Florida

To the

Utility Sponsor Steering Committee

Final Report dated February 2020

I. Introduction

The Florida Public Service Commission (FPSC) issued Order No. PSC-06-00351-PAA-EI on April 25, 2006 (Order 06-0351) directing each investor-owned electric utility (IOU) to establish a plan that increases collaborative research to further the development of storm resilient electric utility infrastructure and technologies that reduce storm restoration costs and outages to customers. This order directed IOUs to solicit participation from municipal electric utilities and rural electric cooperatives in addition to available educational and research organizations. As a means of accomplishing this task, the IOUs joined with the municipal electric utilities and rural electric cooperatives in the state (collectively referred to as the Research Collaboration Partners) to form a Steering Committee of representatives from each utility and entered into a Memorandum of Understanding (MOU) with the University of Florida's Public Utility Research Center (PURC). In 2018 the Research Collaboration MOU was renewed for an initial term of two years, effective January 1, 2019, and will be automatically extended for successive two-year terms.

PURC performs the administration function for research collaboration, including financial management, logistics, production and distribution of documents, and preparation of reports. PURC also coordinates and performs research as agreed upon with the Steering Committee by facilitating the exchange of information from the Research Collaboration Partners with individuals conducting research projects and facilitating the progress of each research project.. The collaborative research has focused on undergrounding, vegetation management, hurricane-wind speeds at granular levels, and improved materials for distribution facilities.

This report provides an update on the activities of the Steering Committee since the previous report dated February 2019.

II. Undergrounding

The collaborative research on undergrounding has been focused on understanding the existing research on the economics and effects of hardening strategies, including undergrounding, so that informed decisions can be made about undergrounding policies and specific undergrounding projects.

The collaborative has refined the computer model developed by Quanta Technologies and there has been a collective effort to learn more about the function and functionality of the computer code. PURC and the Project Sponsors have worked to fill information gaps for model inputs and significant efforts have been invested in the area of forensics data collection.

In addition, PURC has worked with doctoral and master's candidates in the University of Florida Department of Civil and Coastal Engineering to assess some of the inter-relationships between wind speed and other environmental factors on utility equipment damage. PURC has also been contacted by engineering researchers at the University of Wisconsin and North Carolina State University with an interest in the model, though no additional relationships have been established. In addition to universities, PURC has been in contact with stakeholders in Puerto Rico in light of PURC Director Mark Jamison's appointment to the Southern States Energy Board Blue Ribbon Task Force on the future of Puerto Rico's energy system. The stakeholders, government and task force are concerned with strategies to make Puerto Rico's system more resilient and are interested in the role that the model could play. Finally, PURC has been contacted by California stakeholders interested in applying the principles of the model to the mitigation of the interactions between the electricity grid and the surrounding vegetation, potentially reducing the risk of wildfires. Despite the outside interest, there are no concrete plans to expand the scope of the model at this time. Every researcher that contacts PURC cites the model as the only non-proprietary model of its kind.

III. Wind Data Collection

The Project Sponsors entered into a wind monitoring agreement with WeatherFlow, Inc., in 2007. Under the agreement, Florida Sponsors agreed to provide WeatherFlow with access to their properties and to allow WeatherFlow to install, maintain and operate portions of their wind monitoring network facilities on utility-owned properties under certain conditions in exchange for access to wind monitoring data generated by WeatherFlow's wind monitoring network in Florida. WeatherFlow's Florida wind monitoring network includes 50 permanent wind monitoring stations around the coast of Florida, including one or more stations located on utility-owned property. The wind monitoring agreement expired in early 2012; however, it was renewed in April 2017 and will renew automatically annually on the effective date for an additional one year period, unless terminated by the parties to the agreement.

IV. Public Outreach

We have previously discussed the impact of increasingly severe storms and the increased

population and utility infrastructure along the coast on greater interest in storm preparedness. PURC researchers continue to discuss the collaborative effort in Florida with the engineering departments of the state regulators in New York, New Jersey, and Pennsylvania, and regulators in Jamaica, Grenada, Curacao, St. Lucia, the Bahamas, Samoa, and the Philippines. In 2019, stakeholders in Puerto Rico and California also showed interest in the collaborative's efforts. While all of the regulators and policymakers showed great interest in the genesis of the collaborative effort, and the results of that effort, they have not, at this point, shown further interest in participating in the research effort. In 2019, there continued to be considerable interest in Florida's hardening efforts from the popular media in California, in light of continued wildfire problems in the state and their aftermath.

VI. Conclusion

In response to the FPSC's Order 06-0351, IOUs, municipal electric utilities, and rural electric cooperatives joined together and retained PURC to coordinate research on electric infrastructure hardening. The steering committee has taken steps to extend the research collaboration MOU so that the industry will be in a position to focus its research efforts on undergrounding research, granular wind research and vegetation management when significant storm activity affects the state.

Appendix 4: Cross Reference Index

Eigh	t-Year Wooden Pole Inspection Programs	
	Summary of the Inspection Program	Section 2.1
Revi	ew of Wooden Pole Inspection Program	
	Total poles	. Appendix 2, Column a
	Poles Planned for inspection for the year of review	
	Poles Inspected for the year of review	
	Poles Failed Inspection for the year of review	
	Corrective action and how many poles were corrected	
	The number of years completed in the 8-year cycle	Section 2.1
Proje	ected Next Year of Review Wooden Pole Inspection Summary	
	Total Poles	. Appendix 2, Column a
	Number of Wooden Poles Inspected during current 8-year cycle	
	Number of Wooden Pole Inspections planned for the next year	
	Trainbor of troodon's old mopositions planned for the floor year	Appondix 2,001dilli k
Ten l	nitiatives	
(1)	Three-Year Vegetation Management Cycle for Distribution Circuits	
• •	Summary of the vegetation management plans	Section 3.1
	Vegetation Clearing from Feeder Circuits	
	Miles trimmed for current year of the three-year cycle	Section 3.6
	which thinned for duront year of the three year dyole	
	Vegetation Clearing from Lateral Circuits	
	Miles trimmed for current year of the four-year cycle	Section 3.6
	,	
(2)	Audit of Joint use Agreements	
(-)	Summary of the Joint Use Agreements for poles and a summary of the n	conitaring of the
	strength and loading requirements for those poles	Section 4.1
(2)	Six Voor Transmission Inspections	
(3)	Six-Year Transmission Inspections	
	Summary of the six-year transmission structures, substations, and all ha	
	these facilities inspections	Section 5.0
(4)	Hardening of Existing Transmission Structures	
(-)	Summary of the Hardening of Existing Transmission Structures	Section 6.0
	outlinary of the fractering of Existing Transmission Structures	Section 6.0
(5)	Transmission and Distribution Geographic Information System	
(-)	Summary of Gulf's transmission and distribution geographic information	system Section 8.0
	canimary of care manorinosism and alcandation goograpms information	
(6)	Post-Storm Data Collection and Forensic Analysis	
(-)	Summary of Gulf's post-storm data collection and forensic analysis	Section 9.1
(7)	Collection of Detailed Outage Data Differentiating Between the Relia	ability Performance of
(')	Overhead and Underground Systems	ability i circimance of
		P. 1. 226
	Summary of collection of detailed outage data differentiating between the	
	of overhead and underground systems	Section 10.0
/ ->	111000 6 0 0 0 0 0 0 0	
(8)	Increased Utility Coordination with Local Governments	_
	Summary of Gulf's efforts to coordinate with Local Governments	Section 11.0
(0)	Collaborative Becomes on Effects of University Winds and Charme Co	IIKOO
(9)	Collaborative Research on Effects of Hurricane Winds and Storm S	
	Summary of the continuing collaborative research with PURC on the effective research	
	and storm surge	Appendix 3
(46)	A National Blackton Books 1 1 1 1 2 2	
(10)	A Natural Disaster Preparedness and Recovery Program	
	Summary of Gulf's Natural Disaster Preparedness and Recovery Progra	111 Section 13.0

Appendix 4: Cross Reference Index

Reliability Performance	
Summary of the company's overall reliability performance	Section 15.1
Actual Distribution Service Reliability	
Form PSC/ECR 102-1(a): Causes of Outages Events – Actual	
Form PSC/ECR 102-2(a): Three Percent Feeder list – Actual	Appendix 1
Form PSC/ECR 102-3(a): Service Reliability Indices – Actual	Appendix 1
Provide Documented Exclusion CMI and CI for the following categorie	es:
Planned Outages	
Named Storm Outages	
Tornados	
Ice on Lines	• •
Planned Load Management Event	
Customer Request	
Fires	
Extreme Weather Event	
Other Distribution	Appendix 1
Other Transmission and Generation	Appendix 1
Summary of Documented Exclusions (CMI and CI)	Appendix 1
Adjusted Distribution Service Reliability Actual Data: Customer Minutes of Interruption (CMI), Customer Interpretation (CMI)	Appendix 1
Form PSC/ECR 102-1(b): Causes of Outages Events – Adjusted	
Form PSC/ECR 102-2(b): Three Percent Feeder list – Adjusted	
Form PSC/ECR 102-3(b): Service Reliability Indices – Adjusted	
Summary of SAIDI, Related trends and actions taken	
Summary of SAIFI; Related trends and actions taken	
Summary of CAIDI; Related trends and actions taken	
Summary of MAIFIe; Related trends and actions taken	
Summary of CEMI5; Related trends and actions taken	
Summary of L-Bar; Related trends and actions taken	
Summary of the Three Percent Feeder Report, plus what is being	
feeders recurring on the report	
Summary of the Eight Outage Cause Categories, and what was in	
reliability due to the worst causes	
Summary of Company's Reliability Related Complaints, plus and	•
what was done to correct the problem	Section 15.11