AUSLEY MCMULLEN FPSC - COMMISSION CLERK

FILED 5/21/2018 DOCUMENT NO. 03789-2018

ATTORNEYS AND COUNSELORS AT LAW

123 SOUTH CALHOUN STREET P.O. BOX 391 (ZIP 32302) TALLAHASSEE, FLORIDA 32301 (850) 224-9115 FAX (850) 222-7560

May 21, 2018

VIA: ELECTRONIC FILING

Ms. Carlotta S. Stauffer Commission Clerk Florida Public Service Commission 2540 Shumard Oak Boulevard Tallahassee, Florida 32399-0850

> Re: Petition for recovery of costs associated with named tropical systems during the 2015, 2016 and 2017 hurricane seasons and replenishment of storm reserve subject to final true-up, by Tampa Electric Company FPSC Docket No. 20170271-EI

Dear Ms. Stauffer:

Attached for filing in the above docket on behalf of Tampa Electric Company are the following:

- 1. Direct Testimony and Exhibit (GRC-1) of Gerard R. Chasse
- 2. Direct Testimony and Exhibit (JSC-1) of Jeffrey S. Chronister
- 3. Direct Testimony and Exhibit (SEY-1) of S. Beth Young

Thank you for your assistance in connection with this matter.

Sincerely,

JDB/pp Attachment

All Parties of Record (w/attachment) cc:



BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 20170271-EI

IN RE: PETITION FOR RECOVERY OF COSTS
ASSOCIATED WITH NAMED TROPICAL SYSTEMS
DURING THE 2015, 2016, AND 2017 HURRICANE
SEASONS AND REPLENISHMENT OF STORM RESERVE
SUBJECT TO FINAL TRUE-UP, TAMPA ELECTRIC
COMPANY.

DIRECT TESTIMONY AND EXHIBIT
OF

GERARD R. CHASSE

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION 1 PREPARED DIRECT TESTIMONY 2 3 OF GERARD R. CHASSE 4 5 I. INTRODUCTION 6 Please state your name, address, occupation and employer. 7 8 My name is Gerard R. Chasse. My business address is 702 Α. 9 N. Franklin Street, Tampa, Florida 33602. I am employed 10 11 by Tampa Electric Company ("Tampa Electric" or "the Vice President, Electric Delivery company") as 12 Department. 13 14 Please describe your duties and responsibilities in that 15 position? 16 17 My duties and responsibilities include the oversight of 18 Α. all functions within Tampa Electric's Electric Delivery 19 20 Department including the planning, engineering, maintenance and restoration of the 21 operation, transmission, distribution and 22 substation systems, 23 operation of the distribution, and energy control centers, administration of tariffs and compliance, 24 execution of the company's Transmission and Distribution 25

("T&D") strategic solutions including advanced metering infrastructure, outdoor and streetlight LED conversion project, and advanced distribution management system, line clearance activities, warehouse and stores, and fleet and equipment. As it relates to this filing, I am responsible for the safe, timely, and efficient implementation of Tampa Electric's storm restoration plan.

9

10

11

8

1

2

3

5

6

Q. Please describe your educational background and professional experience?

12

13

14

15

16

17

18

19

20

21

22

23

24

25

I received a Bachelor of Science degree in electrical Α. engineering from the University of Maine in 1990 and became a licensed professional engineer in 1996. held numerous positions of increasing responsibility in Bangor Hydro Electric and its successor, Emera Maine, including Substation Engineer, Planning Engineer, Substation Operations Supervisor, Manager of Engineering, Manager of Assets, Project Manager for an international transmission line, Vice-President of Operations, Executive Vice-President, and President of Emera Maine from 2010 through 2015. In 2015 and 2016, I was Vice-Chair of the Emera Maine Board. My position was also focused on renewable strategy, grid modernization

strategy, and customer strategy for Emera companies from 2015 to 2016 before my current role.

Q. What is the purpose of your direct testimony?

A. The purpose of my direct testimony is to describe Tampa Electric's Disaster Preparedness and Recovery Plan and to provide details of the work and costs incurred by Tampa Electric's T&D organization during the 2015, 2016 and 2017 storm seasons in connection with the five named tropical storms: Tropical Storm ("TS") Erika, TS Colin, Hurricane Hermine, Hurricane Matthew and Hurricane Irma. These five named tropical storms required storm preparation and restoration activities. My direct testimony supports the reasonableness and prudence of the T&D storm restoration costs for which Tampa Electric is seeking recovery.

Q. Are you sponsoring any exhibits in this proceeding?

A. Yes, I am. Exhibit No. GRC-1, consisting of one document entitled "Tampa Electric's Recoverable Restoration Costs by Storm, Function and Cost Element" was prepared under my direction and supervision. This Exhibit details the company's recoverable storm costs by function and detailed category which supports the necessary and

prudent restoration costs Tampa Electric incurred in restoring the electrical systems in the five named tropical storms in this proceeding.

4

5

6

1

2

3

II. TAMPA ELECTRIC'S DISASTER PREPAREDNESS AND RECOVERY PLAN

Q. What is the objective of Tampa Electric's Disaster

Preparedness and Recovery Plan?

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

The objective of Tampa Electric's Disaster Preparedness Α. and Recovery Plan is to safely, efficiently effectively restore power to customers as quickly as practical during and following a severe weather event. This is accomplished in accordance with all regulatory, legislative and industry rules, including the Occupational Safety and Health Administration ("OSHA"). in close coordination with all It is accomplished applicable local, regional, state and federal governmental agencies. It is also accomplished according well-established and always improving plan. to Facilities, equipment and critical customers are restored using both a predetermined prioritization process and a methodology to restore the largest number of customers as quickly as possible. The plan is readily scalable to the size and impacts of the event and employees are regularly trained in their roles within the plan.

The scale of the implementation of the plan may extend on a small scale to only internal resources and possibly local contractor resources all the way to opening multiple incident bases, acquiring resources from regional mutual aid groups ("RMAG") across the country, as well as affiliates and non-RMAG contractor resources.

7

8

1

2.

3

5

6

Q. Please describe the key components of Tampa Electric's

Disaster Preparedness and Recovery Plan?

10

11

12

13

14

15

16

17

18

19

20

21

22

23

Tampa Electric's Disaster Preparedness and Recovery Plan consists of a standard management hierarchy and set of procedures for managing temporary events of any size called an incident command structure ("ICS"). ICS includes procedures to select and form temporary management hierarchies to manage and control funds, personnel, facilities, resources and communications. It is designed to be used or applied from the time an event is anticipated until the requirement for additional management and operations no longer exist. It provides logistical and administrative support to operational staff allowing them to focus on addressing the event. It is cost effective by avoiding duplication of efforts and maximizing utilization of available resources.

25

As a nationally recognized standardized approach to the command, control and coordination of emergency response, ICS provides for common terminology and clear within which responders from communications multiple agencies public and/or private can be effective. its strengths is the ability to expand or contract in scope to meet the needs of the event to which it is applied. ICS is standardized nationally and utilized by virtually all first responders in the company's service territory, it allows for effective and efficient coordination of response to events between Tampa Electric and the first responders of the communities the company serves.

13

14

15

1

2

3

5

6

8

9

10

11

12

Q. Please explain the function of ICS as it relates to Tampa Electric's Disaster Preparedness and Recovery Plan?

16

17

18

A. ICS consists of five major functional areas: Command,
Operations, Planning, Logistics and Finance.

19

20

21

22

23

24

25

Command (or Command Staff): Where the event objectives, strategies and priorities are set and overall responsibility for the event resides. For small events, the Incident Commander may be the only position staffed. Other command level positions include Public Information Officer (normally Corporate Communications), Safety and

representatives from other major groups (Environmental, Energy Supply, Emergency Management - Business Continuity, Customer Experience, Human Resources, etc.). The Incident Commander has overall responsibility for managing the incident.

Operations: Responsible for developing and implementing tactics to accomplish the event objectives (restore service) lies within this area. Operations is led and staffed by individuals with the greatest tactical expertise in dealing with the problem at hand. Tactical response resources (crews, equipment, material, etc.) are organized, assigned and supervised by the Operations section.

Planning: Responsible for collecting, evaluating and displaying event intelligence and information. Also required to prepare and document Incident Action Plans, tracking resources assigned to the event, maintaining event documentation and developing plans for demobilization.

Logistics: Responsible for insuring that there are adequate resources (personnel, supplies and equipment) for meeting the event objectives. Logistics is responsible for all services and support needs, including:

Ordering, obtaining, maintaining and accounting for

essential personnel, equipment and material 1 Providing communication planning and resources 2 3 Setting up food services for responders Setting up and maintaining event facilities (Incident 5 Bases, housing, etc.) Providing support transportation 6 Providing medical services to event personnel 8 Finance: All event specific financial management is handled 9 within this area. Responsible for: 10 11 Contract negotiation and monitoring Timekeeping 12 Cost analysis 13 14 Compensation for injury or damage to property Documentation for reimbursement (under mutual aid 15 agreements and assistance agreements) 16 17 Does Tampa Electric periodically update its Disaster 18 Q. Preparedness and Recovery Plan? 19 20 Yes, the company updates the plan on an annual basis. 21 Α. 22 Each year Tampa Electric's Corporate Emergency Management 23 revises the plan based on new improvements identified, organizational changes or changes to personnel. 24

particular, subsequent to Hurricane Irma and due to its

size and scale of required response, a detailed lessons learned exercise was conducted throughout the company and suggestions for improvements were gathered and many have subsequently been implemented.

Q. What other steps does Tampa Electric take to prepare for each storm season?

A. Tampa Electric regularly takes a number of steps each year to prepare the company and team members for each storm season including implementing the company's storm hardening plan, mock storm exercises, communication with local, county, and state emergency response centers, implementation of the company's vegetation management plan, increasing of inventory levels for T&D equipment that has the potential to be damaged, and implementation of new technologies to make storm management and execution more efficient.

Q. Would you provide some examples of things that the company has done recently to improve its Disaster Preparedness and Recovery Plan?

A. The company has several examples that have been done recently to improve Tampa Electric's Disaster

Preparedness and Recovery Plan. The company has initiated additional Fold Out Rigid Temporary Shelters ("FORTS") to provide command center facilities at incident bases. of the suggested improvements following Hurricane Irma, most of these suggestions are within the Electric Delivery Department with over 140 of these suggestions having been already implemented into the company's Disaster Preparedness and Recovery Plan. The remaining improvements still undergoing evaluation are for implementation and are being actively tracked. Tampa Electric's Customer Experience Department also implemented lessons learned identified from Hurricane Irma and is on schedule to complete many more prior to the peak of the 2018 hurricane season. Tampa Electric's Support Services Department also identified suggested improvements and have initiated approximately 32 of them and similar to the Electric Delivery and Customer Departments, to evaluate Experience continue and implement these suggestions where practical.

20

21

22

1

2

3

4

5

6

8

9

10

11

12

13

14

15

16

17

18

19

Q. How does Tampa Electric respond when a storm threatens its service territory?

23

24

25

A. Initiation of storm response for Tampa Electric begins with very close monitoring of weather forecasts. Tampa

Weather Service. 11 12 13 storm agenda. Customer Experience, Communications, 22 Logistics Support, Planning and Finance.

1

2

3

5

6

8

9

10

14

15

16

17

18

19

20

21

23

24

25

Electric's Electric Delivery Emergency Manager provides daily updates on weather forecasts throughout the year. During the hurricane season, potential storms are identified as early as ten or more days ahead of potential impacts to the peninsular Florida and the company's service area. Tampa Electric subscribes to a paid weather forecasting service and also monitors the If the storm has the potential to threaten Florida and the company's service area, the Electric Delivery Incident Commander will initiate calls with the Electric Delivery Operations team. Depending on the storm's intensity and forecasted track and impacts, at approximately the five to seven-day range, the Electric Delivery Incident Commander will initiate full or partial Electric Delivery Incident Command Structure along with daily to twice daily calls using the established pre-The primary focus is to engage the key responsible process owners in the areas of Emergency Management and Mutual Assistance, Safety, Environmental, Human Resources, Corporate Energy Supply, Electric Delivery Transmission and Substation Operations, Transmission and Distribution Control Center, Initial activities are focused on weather forecasts and planning which includes storm

for modeling and assessing the need restoration If forecasts for impacts continue to hold, resources. all other areas of the company are quickly activated to their responsibilities within execute the plan. Depending on the size and potential impacts of the storm, the Electric Delivery Incident Commander will recommend to the Corporate Incident Commander, Tampa Electric's Chief Executive Officer ("CEO"), whether Corporate ICS should be initiated.

10

11

12

1

2

3

5

6

8

Q. Has Tampa Electric had previous opportunities to exercise its Disaster Preparedness and Recovery Plan?

13

14

15

16

17

18

19

20

21

Α. Yes. Tampa Electric has had several opportunities to exercise the company's Disaster Preparedness and Recovery The company exercised the plan at various levels for all the storms that are the subject of this proceeding. In addition, Tampa Electric exercises the plan each year prior to the upcoming hurricane season by conducting training, preparation and mock storm exercises.

22

23

24

Q. Has Tampa Electric implemented improvements in its

Disaster Preparedness and Recovery Plan over time?

Just in the past year, Tampa Electric has Α. Yes. implemented numerous improvements in its Disaster Preparedness and Recovery Plan as a result of the lessons learned exercise conducted that subsequent was Hurricane Irma. Some examples of these Identification of a list of vehicle/equipment needs to run tasks such as laundry, pillow, sheets, cots, etc. for restoration crews, improvements to the residential and small customer handling, escalation and priority, implementation of a two-man troubleman role, improvements to the wire-down processes, improvements to the Estimated Time for Restoration process, an improved outage map, etc.

1

2

3

4

5

6

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

- Q. How does Tampa Electric ensure that its Disaster

 Preparedness and Recovery Plan is consistently followed?
- A. Tampa Electric ensures that the company's Disaster Preparedness and Recovery Plan is consistently followed through annual training and preparation and mock storm exercises, as well as, having a well-defined Emergency Management and Incident Response Plan where internal resources understand and have been trained on their roles and responsibilities. The plan is reviewed and updated annually. Everyone that fills a role in the plan is notified and trained. In most cases there are primary

personnel and backup personnel for each role within the plan. All documentation on the plan is readily accessible by all employees through the company's intranet.

4

5

6

1

2

3

Q. How does Tampa Electric assess its restoration work load requirements?

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

Α. Tampa Electric assesses its restoration work load requirements for storm events through two The first is through storm modeling where the methods. specific attributes of the forecasted weather modelled based on a history of storm impacts from other The modeling is specific to each one of the events. company's service areas. Based on the projected number of customer outages and the damage expected, the manhours necessary to repair the damage and restore power are estimated and restoration targets are established. Smaller storm events may have targets that range between 24 and 48 hours with sub-goals that no customers will be out more than 24 hours. Restoration targets for larger events may be driven by availability of external resources and other practical limitations within logistics or operations. Once restoration targets are established, internal resource availability of both field employees and native contractors primarily in the areas of damage

assessment, line clearance and T&D line workers are assessed against the needed manhours to complete the work. If the resource requirement is greater than the internal availability, then external resources will be acquired. The direct testimony of Tampa Electric's Witness S. Beth Young provides additional information on the procurement of external resources.

8

9

10

11

12

13

14

15

16

17

18

19

20

21

1

2

3

5

6

The second method for determining work load requirements is through damage assessment. After the storm, damage assessors are sent out to patrol feeders, gather damage information and return that information to Tampa Electric's Planning section. With that information and information on actual outage counts from the company's outage management system, adjustments can be made to the resource requirement predictions from the modeling and a more accurate Estimated Time of Restoration ("ETR") can be made. For large storms the damage assessment process may require 24 to 48 hours before enough information is gathered and assessed to make reasonable estimations on ETR's.

22

23

24

25

III. Tropical Storm Erika

Q. Please provide an overview of Tropical Storm Erika, Tampa Electric's actions and response to the storm and how it

impacted Tampa Electric's service territory?

2

3

4

5

6

8

9

10

11

12

13

14

15

16

17

18

19

20

1

Α. TS Erika formed on Monday, August 24, 2015 in the Atlantic and was immediately classified as a TS. TS Erika moved westward while being steered by the flow south of the subtropical ridge. During this move westward, TS Erika in an environment that was conducive for strengthening. On Tuesday, August 25, 2015 wind shear began affecting TS Erika along with dry mid-level air which inhibited intensification. On Thursday, August 27, 2015 TS Erika passed near the northern tip of Guadeloupe while slightly intensifying. On Friday, August 28, 2015 TS Erika passed south of the U.S. Virgin Islands and Puerto Rico while experiencing wind shear which prevented By mid-day the storm no additional intensification. longer had a well-defined circulation and dissipated. The remnants of TS Erika remained an area of low pressure that reached Florida on Wednesday, September 2, 2015 and moved into Southeastern Georgia before finally losing its identity on Thursday, September 3, 2015.

21

22

23

24

25

On Friday, August 28, 2015 Governor Rick Scott declared a state of emergency for the entire state of Florida ahead of TS Erika. Also, on this day, Tampa Electric commenced emergency operations preparation as the company's service

area was in the cone of TS Erika's potential landfall. After shifting to emergency operations, Tampa Electric requested Southeastern Electric Exchange ("SEE") and non-SEE distribution and tree trim resources to travel and arrive on Sunday, August 30, 2015 in preparation for the In addition, Tampa Electric began making restoration. preparation for the storm by securing the service area yards, materials, two incident bases and coordinating restoration preparation and response work schedules. Monday, August 31, 2015 the weather service was still forecasting three to five inches of rain and over 30 miles ("mph") winds, per hour so additional distribution resources were brought in early in preparation for the inclement weather.

15

16

17

18

19

20

21

1

2

3

5

6

8

9

10

11

12

13

14

The National Hurricane Center ("NHC") declared that TS Erika dissipated near the north coast of eastern Cuba at 9:30 a.m. Eastern Daylight Time ("EDT") on Saturday, August 29, 2015. It was at this time that hurricane hunter data concluded that the form of this TS had degenerated to a trough of low-pressure.

22

23

24

25

IV. TROPICAL STORM COLIN

Q. Please provide an overview of Tropical Storm Colin, Tampa Electric's actions and response to the storm and how it

impacted Tampa Electric's service territory

A.	TS Colin formed from a low-pressure area on Sunday, June
	5, 2016 off the Gulf of Mexico near the northern coast of
	the Yucatan Peninsula. TS Colin was forecasted to make
	landfall on Monday, June 6, 2016 along Florida's Gulf
	coast as a weak tropical storm. Even though TS Colin was
	a minimal tropical storm, tropical storm warnings were
	added late on June 5, 2016 that covered Altamaha Sound in
	Georgia down to Sebastian Inlet on Florida's Atlantic
	Coast. The NHC provided guidance late on June 5, 2016
	that focused less on TS Colin's forecast track, which was
	to the North, but rather on the potential strong winds,
	heavy rain and coastal flooding, which were being
	forecasted well to the east of the center of circulation.
	The NHC posted flash flood watches, forecasted a storm
	surge in Tampa Bay between one and two feet and the
	possibility of isolated tornadoes in Florida. On Tuesday,
	June 7, 2016 at 3:00 a.m., TS Colin made landfall near
	Dekle Beach with the storm's maximum sustained winds of
	50 mph. TS Colin continued a northeastward track, crossed
	north Florida and southern Georgia and exited over the
	Atlantic Ocean.

On Monday, June 6, 2016 Governor Rick Scott declared a

state of emergency for thirty-four counties in the state, service including most of Tampa Electric's (Hillsborough and Pinellas Counties). weather service predictions of TS Colin's path indicated it would cross the Florida Peninsula close to Tampa Bay with tropical storm force winds of 40 to 50 mph with heavy rain squalls. Tampa Electric's Energy Department went into a soft activation on Friday, June 3, 2016 as the company monitored the storm. After shifting to emergency operations, Tampa Electric requested non-SEE distribution resources to travel and arrive on Sunday, for June 5, 2016 in preparation the activities. In addition, Tampa Electric prepared for the storm by securing the service area yards, materials and vehicle staging area and coordinating restoration preparation and response work schedules. By Sunday, June 5, 2016 TS Colin's projected landfall was moved north to Cedar Key with the worst weather south and east of the center, which included Tampa Bay. On Sunday, June 5, 2016 Tampa Electric went to partial activation and then the company made the decision to implement full activation Monday, June 6, 2016 to make the final preparations. On Tuesday, June 7, 2016 the severe weather was past Tampa Bay and the company's service area. Wednesday morning, June 8, 2016 non-SEE distribution

area

Preliminary

restoration

1

2

3

5

6

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

resources were released and the company discontinued storm operations.

3

4

5

6

1

2

V. HURRICANE HERMINE

Q. Please provide an overview of Tropical Storm Hermine,

Tampa Electric's actions and response to the storm and
how it impacted Tampa Electric's service territory?

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

On Sunday, August 28, 2016 tropical depression nine was Α. moving westward as a tropical wave north of Cuba into the Gulf of Mexico. On Wednesday, August 31, 2016 tropical depression nine intensified into TS Hermine. TS Hermine shifted from a westward track to a northeastward track in the south-central Gulf of Mexico and intensified further to become Hurricane Hermine just prior to making landfall on Thursday, September 1, 2016. On Friday, September 2, 2016 at 3:00 a.m., Hurricane Hermine made landfall as a Category 1 hurricane just east of St. Mark's Florida. Hurricane Hermine quickly dissipated in strength becoming TS Hermine by mid-morning. TS Hermine continued a northeastward track, crossed North Florida, Georgia and South Carolina and exited over the Atlantic Ocean.

23

24

25

On Wednesday, August 31, 2016 Governor Rick Scott declared a state of emergency for forty-two counties in the state

covering Tampa Electric's entire service area (Hillsborough, Pasco, Pinellas and Polk Counties) ahead of what would become Hurricane Hermine. Preliminary weather service predictions of TS Hermine's path were projected to impact Tampa with a 60 percent chance of development into a tropical cyclone. Preparation storm calls for Tampa Electric' Energy Delivery department began on Monday, August 22, 2016 with formal activation for Tampa Electric on Thursday, August 25, 2016. shifting emergency operations, Tampa Electric to requested SEE and non-SEE distribution, tree trim and damage assessment to travel and arrive Sunday, August 28, 2016 in preparation for the restoration activities. In addition, Tampa Electric resources were making preparation for the storm by securing the service area yards, materials, three incident bases and coordinating restoration preparation and response work schedules. Friday, August 26, 2016 the weather service indicated the system would slow down and not intensify as much as previously predicted. The path was also revised indicating land fall would be in the Panama City area. However, heavy rain squalls were possible along the western Florida Peninsula with projected rainfall amounts of three to six inches with isolated total of seven to ten inches possible based upon this new projected storm

1

2

3

5

6

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

Tampa Electric made the decision to release the SEE resources, delay the arrival of the non-SEE resources until the evening of Wednesday, August 31, 2016 and scale back the number of incident bases to one. On Wednesday, August 31, 2016 with the forecast changing to more of a rain event for Tampa Electric and showing slightly improved conditions for the Tampa Bay area, the company began unwinding preparations while still preparing for a storm with up to a possible 100,000 customers impacted. Tampa Electric made the decision to retain non-SEE resources for the night to ensure that adequate resources were available for restoration pending a decision to potentially release them in the morning. On Friday, September 2, 2016 the Tampa Bay area was impacted by two separate and significant rain bands from Hurricane Hermine that produced strong winds and heavy rain. Because of the outages caused by these two rain bands, Electric secured additional crews arrive Tampa to Saturday morning, September 3, 2016 to assist With significant progress made restoration efforts. overnight Friday, Tampa Electric made the decision to release these additional crews to enable these crews to provide mutual assistance to the North Coastal Region of Duke Energy Florida beginning Sunday, September 4, 2016.

1

2

3

5

6

8

10

11

12

13

14

15

16

17

18

19

20

21

22

23

VI. HURRICANE MATTHEW

Q. Please provide an overview of Tropical Storm Matthew,

Tampa Electric's actions and response to the storm and
how it impacted Tampa Electric's service territory?

Matthew developed into a tropical storm southeast of St.

Α.

Lucia on Wednesday, September 28, 2016. On Thursday, September 29, 2016 TS Matthew grew in intensity into a Category 1 hurricane northeast of Curacao and reached Category 5 status on the following day. Hurricane Matthew weakened slightly to a Category 4 hurricane as it made its northward turn and made its first landfall over Haiti on Tuesday, October 4, 2016. Hurricane Matthew then made its second landfall over Cuba where it weakened to a Category 3. Hurricane Matthew intensified again as it moved offshore from Cuba and re-attained Category 4 status. Hurricane Matthew then headed to the Bahamas and on Thursday, October 6, 2016 it made its third landfall

On Monday, October 3, 2016 Governor Rick Scott declared a state of emergency for the entire state ahead of Hurricane Matthew. Although preliminary discussions had

over Grand Bahama. Hurricane Matthew then moved northward

paralleling the coast of Florida on Thursday, October 6,

2016 and Friday, October 7, 2016.

been occurring in Tampa Electric's Energy Delivery Department since Thursday, September 29, 2016 Wednesday, October 5, 2016 Tampa Electric commenced emergency operations preparation as parts of the company's service area were projected in the cone of Hurricane Matthew's potential path. After shifting to Electric evaluated emergency operations, Tampa potential storm impacts and resultant customer outages and determined that neither SEE or non-SEE resources would be required. However, the option was left open for Tampa Electric to request outside resources in the event the storm's path moved westward towards Tampa Electric's service area. Tampa Electric began making preparation for the storm by securing the service area yards, materials and coordinating restoration preparation and response work schedules. As the path of Hurricane Matthew kept it just offshore of the east coast of Florida, the customer outages in Tampa Electric's service area were quickly restored during the day Friday, October 7, 2016. With all customers restored, Tampa Electric provided mutual assistance resources to other utilities impacted by the storm.

23

24

25

1

2

3

5

6

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

VII. HURRICANE IRMA

Q. Please provide an overview of Hurricane Irma, Tampa

Electric's actions and response to the storm and how it impacted Tampa Electric's service territory?

3

4

5

6

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

1

2

On Wednesday, August 30, 2017, the NHC upgraded Tropical Α. Disturbance 36 to TS Irma and predicted that it would strengthen into a hurricane over the next two to three days with a track that would take it near, if not into Florida. The next day, Thursday, August 31, 2017, TS Irma was upgraded to a hurricane and predicted to pass close to the Northeast Caribbean islands as a major Category 4 hurricane. In subsequent advisories, the uncertainty of Hurricane Irma's track put the entire Caribbean and east coast of the United States on alert. The entire peninsula of Florida was included in the cone of uncertainty. Hurricane Irma traveled as far west as Cuba before turning north and making its first landfall east of Key West as a Category 4 hurricane, then a second landfall near Marco Island as a Category 3 hurricane on Sunday, September 10, 2017. Hurricane Irma then traveled inland up the west coast of Florida, crossing Tampa Electric's service area at an angle along the Hillsborough and Polk County lines early Monday morning, September 11, 2017. While significantly weakened at this point, still had significant Hurricane Irma strength impacted Tampa Electric's service area. Hurricane Irma

continued to travel in a northerly direction up the state, continuing to weaken to a tropical storm and then a remnant low by Monday evening.

4

5

6

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

1

2

3

On Monday, September 4, 2017, Governor Rick Scott declared a state of emergency for the entire state. Over the Labor Day Weekend, Tampa Electric had already begun holding calls t.o discuss t.he storm and start initiating preparatory actions. On Tuesday, September 5, 2017, Tampa Electric began securing additional support crews to possible restoration efforts and started internal preparations for the storm. On Wednesday, September 6, 2017, Tampa Electric's Energy Delivery department and the entire corporation went into full emergency operations. Planning efforts centered around a Category 3 hurricane impacting Tampa Electric's service area. For the rest of the week, as the forecasted track for Irma became less and less favorable, Tampa Electric worked to prepare for the effects of the storm by securing additional materials, resources and services in anticipation of restoration effort. Preparations included the possible opening of all seven Distribution and one Transmission Incident Bases. While some outside resources were requested to arrive over the weekend, with the projected path of the storm taking it up the entire peninsula, the

majority of the crews were requested to report on Tuesday, September 12, 2017. Preparations were complicated as the area was dealing with fuel and bottled water shortages resulting from Hurricane Harvey. Residents, anticipating similar impacts to those of Hurricane Harvey in Texas, heeded the warnings of Governor Scott and stocked up on supplies and evacuated. Transportation of materials and resources, along with the securing of housing for outside resources, was slowed by evacuation traffic.

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

1

2

3

5

6

8

9

After Hurricane Irma cleared Tampa Electric's service restoration mode began the morning of Monday, area, September 11, 2017. By Tuesday, September 12, 2017, the first Incident Base was opened, with three more set to Ultimately, a total of six Incident open the next day. Bases were opened. With the entire company working in restoration mode (activated into storm roles and working extended days) and the assistance of over 3,400 outside resources, restoration proceeded quickly and efficiently. Numerous unforeseen issues such as the possible closure of Interstate 75 and shortages of fuel in the state were dealt with and solutions/workarounds were put into place. As an ETR of Sunday, September 17, 2017, became likely the process began on Thursday, September 14, 2017 to start preparing the organization to return to normal

operations. On Friday, September 15, 2017, Tampa Electric released almost 400 outside resources to travel south to assist Florida Power and Light ("FPL") with their restoration efforts. On Saturday, September 16, 2017, 96 percent of impacted customers had been restored and an additional 200 outside resources were released to FPL to assist with their restoration efforts. Ву September 17, 2017, 99 percent of impacted customers had been restored and the process to shift to normal operation continued. Over 2,300 outside resources were released to both FPL and Duke Energy Florida ("DEF") to assist their restoration efforts, leaving several hundred onsite to assist in final restoration efforts at Tampa Electric. On Monday, September 18, 2017, all remaining outside crews at Tampa Electric were released, Incident Bases shut down and Tampa Electric resumed normal business except for wrapping up any remaining emergency operations.

18

19

20

21

22

1

2

3

5

6

8

10

11

12

13

14

15

16

17

VIII. TAMPA ELECTRIC'S RESTORATION COSTS

Q. What were the final recoverable restoration costs incurred by Tampa Electric in connection with each of the named storms you have described?

23

24

25

A. Tampa Electric incurred prudent recoverable restoration costs by the aforementioned five named tropical storms in

the amount of \$99,675,710 which excludes any interest provision on the storm balance that exceeded the company's Storm Reserve or regulatory assessment fees. These final recoverable restoration costs are reflected in my Exhibit No. GRC-1, Document No. 1 titled "Tampa Electric's Final Recoverable Restoration Costs", which provides a breakdown of the restoration costs incurred by storm, function and detailed category.

2.

Q. Did Tampa Electric incur any restoration costs which were not included in the recoverable restoration costs, and if so, what was that amount that was not recoverable in connection with the five named tropical storms you have described?

A. Yes, Tampa Electric did incur restoration costs which it is not seeking to recover from customers. These costs associated with the five named tropical storms were \$12,016,878. These restoration costs are reflected in Tampa Electric Witness Chronister's Exhibit No. JSC-1, Document No. 1 titled "Tampa Electric's Storm Restoration Cost Summary", which provides a breakdown of the recoverable and non-reserve restoration costs incurred by function.

Q. Please explain why the total recoverable restoration costs that Tampa Electric is seeking for recovery in this proceeding has increased from what was submitted in its original petition?

5

6

7

8

9

10

11

12

13

14

15

1

2

3

4

The final recoverable restoration costs increased from Α. original petition due to Tampa Electric still receiving invoices from companies that performed mutual Tampa Electric estimates the restoration assistance. costs that will be billed and tracks invoices the company The estimates initially used were understated receives. when compared to the final verified invoices. The last for remaining invoice assisting the with company Hurricane Irma restoration efforts was received on May 14, 2018.

16

17

18

19

20

IX. EVALUATING TAMPA ELECTRIC'S RESTORATION RESPONSE

Q. Would you consider Tampa Electric's restoration plan and its execution for these five named tropical storms in this proceeding to be effective?

21

22

23

24

25

A. Yes, I am confident that the execution of Tampa Electric's

Disaster Preparedness and Recovery Plan resulted in a
response that was very effective in performing
restoration in each of the five named tropical storms.

Q. What key factors contributed to the effectiveness of Tampa Electric's restoration plan and execution for the five named tropical storms in this proceeding?

4

5

6

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

1

2

3

Α. There were a number of key factors that contributed to the effectiveness of Tampa Electric's restoration plan and execution for the five named tropical storms in this proceeding. Each storm is a learning experience and after each storm, in addition to the annual plan review process, learnings from the storm are incorporated into the plan. Employees are trained in their storm roles and many employees are experienced leaders with critical storm roles that were in their current or other storm roles during the hurricanes of 2004 and 2005. Annual mock storm exercises are critical to preparation for storm season. Expanded access to external resources for large events through mutual aid groups, contractor networks, affiliate companies also are important to accomplishing restoration activities as efficiently, and timely as practical. Additionally, clear and frequent communication with the various external stakeholders through multiple channels has become nearly, if not as important as the restoration work itself. Intensive efforts for communications with customers and other key external groups was an important key to the company's

success. Finally, the establishment of an ETR was critical.

3

4

5

6

1

2.

Q. Please provide a few examples of key restoration plans/process enhancements that Tampa Electric has implemented recently?

7

8

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

Α. I mentioned above in my direct testimony, Electric has a process to gain lessons learned from performing restoration, conducting mock storm exercises or through the sharing of best practices with other utilities during mutual assistance. Some of the recent learned examples identified following lessons Electric's debrief of Hurricane Irma that the company has implemented that will benefit the restoration process from the impacts of future storms include: Expand the number of incident base locations in the event of a larger category storm with a larger number of outside resources required, use diesel forklifts instead of propane to keep uniformity of fuel at incident bases, obtain rental vehicles five to ten days in advance of storm to ensure sufficient transportation available, implementation of a new outage map with more granularity and align hours of operation for Logistics Support Unit with crew's work schedule.

Q. What are your conclusions regarding Tampa Electric's restoration efforts with respect to the five named tropical storms the company encountered in 2015, 2016 and 2017?

A. My conclusion is that the company's Disaster Preparedness and Recovery Plan and response was effective and efficient in the restoring power in these five named tropical storms. Hurricane Irma, being the largest of the five and the largest to hit Tampa Electric, was a particularly good test of implementation of the plan. From that event, Tampa Electric will be able to make further improvements to make future events even more efficient.

Q. Does this conclude your direct testimony?

A. Yes.

TAMPA ELECTRIC COMPANY DOCKET NO. 20170271-EI WITNESS: CHASSE

EXHIBIT

OF

GERARD R. CHASSE

Table of Contents

DOCUMENT NO.	TITLE	PAGE
1	Tampa Electric's Recoverable Costs by Storm, Function and Cost Element	36

Tampa Electric's Recoverable Costs by Storm, Function and Cost Element (In \$ Thousands)

Erika

TAMPA ELECTRIC COMPANY
DOCKET NO. 20170271-EI
EXHIBIT NO. ____ (GRC-1)
WITNESS: CHASSE
DOCUMENT NO. 1

FILED: 05/21/2018

PAGE 1 OF 2

	Total Storm Restoration				
	Recoverable Costs	Distribution	Transmission	Other	Generation
Labor	63	63	0	0	0
Outside Services - Line Clearance	78	78	0	0	0
Outside Services - Services Expense	545	545	0	0	0
Employee Expense	24	24	0	0	0
Total	710	710	0	0	0
Colin					
	Total Storm Restoration				
	Recoverable Costs	Distribution	Transmission	Other	Generation
Labor	641	621	19	2	0
Outside Services - Line Clearance	128	128	0	0	0
Outside Services - Services Expense	1,637	1,634	4	0	0
Materials & Supplies Expense	8	8	0	0	0
Employee Expense	133	132	1	0	0
Total	2,548	2,522	23	2	0
<u>Hermine</u>	10110101010101010101010101010101010101				
	l otal Storm Restoration Pocovorable Costs	Dietribition	Transmission	O+tho	40141000
Labor	Necover able costs	814	24	17	
Outside Services - Line Clearance	333	333	0	0	0
Outside Services - Services Expense	3,885	3,833	0	53	0
Materials & Supplies Expense	42	11	0	31	0
M&S Inventory Issue	4	4	0	0	0
Other Operating Expense	33	33	0	0	0
Employee Expense	192	169	0	23	0
Rent Expense	16	16	0	0	0
Total	5,361	5,213	24	123	0

TAMPA ELECTRIC COMPANY
DOCKET NO. 20170271-EI
EXHIBIT NO. ____ (GRC-1)
WITNESS: CHASSE
DOCUMENT NO. 1
PAGE 2 OF 2

FILED: 05/21/2018

Outside Services - Line Clearance 205 191 3 10 0 Outside Services - Line Clearance 637 607 29 11 0 Outside Services - Services Expense 637 607 29 11 0 MRS Inventory Issue 1,039 996 12 0 0 Final loyee Expense 1,039 733 0 0 0 Image Total Storm Restoration Recoverable Costs 7,336 2,28 776 0 Outside Services - Line Clearance 68,377 66,916 1 0 0 Outside Services - Line Clearance 68,377 66,916 1 519 940 Outside Services - Line Clearance 68,377 66,916 1 519 940 Outside Services - Line Clearance 68,377 66,916 1 519 940 Outside Services - Line Clearance 4,530 4,540 0 0 0 0 Outside Services - Line Clearance 4,530 4,540		Total Storm Restoration Recoverable Costs	Distribution	Transmission	Other	Generation
Services - Line Clearance 180 <td>Labor</td> <td>205</td> <td>191</td> <td>3</td> <td>10</td> <td>0</td>	Labor	205	191	3	10	0
Services - Services Expense 637 607 29 1 as & Supplies Expense 3 3 2 0 0 ree Expense 1,039 122 0 0 0 ree Expense 1,039 996 32 11 0 ree Expense 8,713 7306 228 776 0 s Services - Line Clearance 6,406 6,406 0 0 0 s Services - Services Expense 8137 6,616 0 0 0 s Services - Services Expense 815 6,406 6,406 0 0 0 p perating Expense 1,094 1,091 0 0 0 0 s every action of Expense 4,530 4,55 0 0 0 0 s every action of Expense 1,124 1,134 1,374 1,374 0 0 s every action of Expense 1,094 1,094 0 0 0 0 s every ac	Outside Services - Line Clearance	180	180	0	0	0
Services - Line Clearance 2	Outside Services - Services Expense	289	209	29	1	0
ree Expense 3 3 0 0 ree Expense 1,039 996 32 0 0 ree Expense 1,039 996 32 11 0 Recoverable Costs 7,136 7,306 228 776 Gener Services - Line Clearance 6,406 0,406 0 0 0 0 Services - Services Expense 8,13 6,406 0 0 0 0 0 Services - Services Expense 8,13 4,450 0 0 0 0 ventory Issue 1,091 0,091 0 0 0 0 spension Expense 8,106 1,104 0 0 0 0 spenvices - Services Expense 7,124 7,124 7,124 0 0 0 spenvices - Services Expense 1,102 1,302 1,314 0 0 0 spervices - Services Expense 1,102 1,099 0 0 0	Materials & Supplies Expense	2	2	0	0	0
ree Expense 1039 122 0 0 0 Total Storm Restoration Total Storm Restoration Distribution Transmission Other Off Off Off Off Off Off Off Off Off Of	M&S Inventory Issue	ĸ	3	0	0	0
1,039 996 32 11 Total Storm Restoration Recoverable Costs 8,713 7,306 228 776 228 776 228 776 228 776 228 776 228 776 228 776 228	Employee Expense	12	12	0	0	0
Total Storm Restoration Recoverable Costs Distribution Recoverable Costs Transmission Properties Other Properties Gener	Total	1,039	966	32	11	0
Total Storm Restoration Total Storm Restoration Distribution Transmission Other Gener 8,713 8,713 7,306 0	r. L.					
Recoverable Costs Distribution Transmission Other Gener 8,713 7,306 Transmission 776 Gener 9 Services - Line Clearance 6,406 6,406 0 0 0 9 Services - Services Expense 1,094 1,091 0 0 0 0 9 perating Expense 4,530 4,450 0		Total Storm Restoration				
Services - Line Clearance 8,713 7,306 228 776 Services - Line Clearance 6,406 6,406 0 0 0 als & Supplies Expense 813 6,436 1 519 0 0 als & Supplies Expense 4,530 4,450 0 0 0 0 operating Expense 4,530 4,450 0 0 79 0 ce Expense 4,530 4,450 0 0 0 0 0 ce Expense 90,018 86,898 230 1,374 0 0 0 ce Expense 7,124 7,124 0 0 0 0 0 0 services - Line Clearance 7,124 7,124 7,124 0 0 0 0 0 services - Line Clearance 7,124 7,124 7,124 0 0 0 0 0 0 potenting Expense 86 Supplies Expense 670 0		Recoverable Costs	Distribution	Transmission	Other	Generation
Services - Line Clearance 6,406 6,406 6,406 0 0 Services Expense 8137 66,916 1 519 0 als & Supplies Expense 815 66,916 1 0 0 wentory Issue 1,094 1,091 0 0 0 0 per Expense 4,530 4,450 0 0 79 0 quenching Expense 11 11 0 0 0 0 0 quenching Expense 10,478 86,898 230 1,374 0 0 0 Services - Line Clearance 7,124 7,124 7,124 0 0 0 0 Services - Line Clearance 7,124 7,124 7,124 0 0 0 0 services - Services Expense 866 670 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Labor	8,713	7,306	228	776	404
Se Services Expense 68,377 66,916 1 519 als & Supplies Expense 815 649 0 0 ventory Issue 1,094 1,091 0 0 perating Expense 4,530 4,450 0 0 ree Expense 4,530 4,450 0 0 ree Expense 90,018 86,888 230 0 spervices 10,478 86,888 230 0,1374 0 Recoverable Costs 10,478 8,996 274 804 0 a Services - Line Clearance 7,124 7,124 0 0 0 a Services - Line Clearance 7,124 7,124 0 0 0 a Services - Line Clearance 7,124 7,124 3 3 3 a Services - Line Clearance 7,124 7,124 3 3 3 a Services - Services Expense 1,02 0 0 0 a Services - Services Expense 4,738 <t< td=""><td>Outside Services - Line Clearance</td><td>6,406</td><td>6,406</td><td>0</td><td>0</td><td>0</td></t<>	Outside Services - Line Clearance	6,406	6,406	0	0	0
als & Supplies Expense 815 649 0 0 wentory Issue 1,094 1,091 0 0 pperating Expense 4,530 4,450 0 0 ree Expense 4,530 4,450 0 0 ree Expense 90,018 86,898 230 1,374 cpense Total Storm Restoration Recoverable Costs 10,478 8,996 274 804 a Services - Line Clearance 7,124 7,124 0 0 0 a Services - Services Expense 866 670 0 0 0 a Services - Services Expense 1,002 0 0 0 0 over Expense 4,892 4,788 0 0 0 0 operating Expense 277 278 0 0 0 0 operating Expense 280 4,788 1 102 0 0 operating Expense 273 274 0 0 0	Outside Services - Services Expense	68,377	66,916	⊣	519	940
ventory Issue 1,094 1,091 0 0 perating Expense 4,450 0 0 0 ree Expense 4,450 0 79 0 ree Expense 4,450 0 79 79 spense 11 11 11 0 79 spense 10,018 86,898 1374 1374 6ener Pervices - Line Clearance 7,124 7,124 7,124 804 804 Services - Line Clearance 7,124 7,124 0 0 0 Services - Services Expense 866 670 0 31 6n wentory Issue 1,102 1,102 1,099 0 0 0 perating Expense 4,892 4,788 1 102 0 0 ree Expense 27 27 66,340 0 0 0 0 ree Expense 27 96,340 0 0 0 0 <t< td=""><td>Materials & Supplies Expense</td><td>815</td><td>649</td><td>0</td><td>0</td><td>165</td></t<>	Materials & Supplies Expense	815	649	0	0	165
Pee Expense 4,530 4,450 0 0 ree Expense 4,530 4,450 0 79 ree Expense 4,530 4,450 0 79 ree Expense Total Storm Restoration Recoverable Costs 8,996 274 804 6 Recoverable Costs 7,124 7,134 0 0 0 Services - Services Expense 866 670 0 31 Gener a Services - Services Expense 866 670 0 0 0 0 overtory Issue 1,102 1,099 0 0 0 0 0 operating Expense 27 4,788 1 102 0 0 opense 28 27 4,788 1 1,02 0 opense 28 4,788 1 1,02 0 0 opense 29,478 310 0 0 0 <td>M&S Inventory Issue</td> <td>1,094</td> <td>1,091</td> <td>0</td> <td>0</td> <td>2</td>	M&S Inventory Issue	1,094	1,091	0	0	2
ree Expense 4,530 4,450 0 79 cpense 11 11 0 0 79 Spyol3 86,898 230 0 79 Total Storm Restoration Recoverable Costs Distribution Transmission Other 6 E Services - Line Clearance 7,124 7,124 0	Other Operating Expense	72	69	0	0	4
Chense 11 11 0 0 0 99,018 86,898 230 1,374 Chenr Total Storm Restoration Total Storm Restoration Transmission Other Gener E Services - Line Clearance 7,124 7,124 7,124 0 0 E Services - Line Clearance 75,081 73,534 804 0 0 E Services - Services Expense 866 670 0 31 6ner Newtory Issue 1,102 1,099 0 0 0 0 Operating Expense 4,892 4,788 11 1002 0 Chense 27 96,340 310 0 0 Chense 27 96,340 310 0 0	Employee Expense	4,530	4,450	0	79	0
90,018 86,898 230 1,374 Total Storm Restoration Total Storm Restoration Tensmission Other Generation E Services - Line Clearance 7,124 7,124 0 </td <td>Rent Expense</td> <td>11</td> <td>11</td> <td>0</td> <td>0</td> <td>0</td>	Rent Expense	11	11	0	0	0
Total Storm Restoration Total Storm Restoration Character Recoverable Costs Distribution Transmission Other Generation E Services - Line Clearance 7,124 7,124 0 0 0 0 0 0 0 0 0 0 31 Character Services Expense 866 670 0 31 Character Services Expense 866 670 0 31 Character Services Expense 90	Total	90,018	86,898	230	1,374	1,516
Total Storm Restoration Distribution Transmission Other Generation Recoverable Costs 10,478 8,996 274 804 Recoverable Costs 7,124 7,124 0 0 Reservices - Line Clearance 75,081 73,534 34 573 Reservices - Services Expense 866 670 0 331 Inventory Issue 11,102 1,109 0 0 Operating Expense 4,892 4,788 1 102 Apperating Expense 27 0 0 0 Apperating Expense 27 0	TOTAL					
Recoverable Costs Distribution Transmission Other Gener 10,478 8,996 274 804 Gener 10,478 7,124 7,124 0 0 0 0 Is Services - Services Expense 866 670 0 31 573 31 10 0		Total Storm Restoration				
10,478 8,996 274 804 le Services - Line Clearance 7,124 7,124 0 0 le Services - Services Expense 75,081 73,534 34 573 ials & Supplies Expense 866 670 0 31 nventory Issue 1,102 1,099 0 0 Operating Expense 4,892 4,788 1 102 yee Expense 27 27 0 0 xpense 99,676 96,340 310 0		Recoverable Costs	Distribution	Transmission	Other	Generation
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Labor	10,478	966'8	274	804	404
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Outside Services - Line Clearance	7,124	7,124	0	0	0
Expense 866 670 31 1,102 1,099 0 0 ense 105 4,788 1 102 27 27 0 0 0 99,676 96,340 310 0 0	Outside Services - Services Expense	75,081	73,534	34	573	940
1,102 1,099 0 0 0 0 0 105 105 101 0 0 0 0 0 0 0 0 0	Materials & Supplies Expense	998	029	0	31	165
thense 105 101 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	M&S Inventory Issue	1,102	1,099	0	0	2
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Other Operating Expense	105	101	0	0	4
Expense 27 27 0 0 0 99,676 96,340 310 1,510 1,510	Employee Expense	4,892	4,788	П	102	0
99,676 96,340 310 1,510	Rent Expense	27	27	0	0	0
	Total	96,66	96,340	310	1,510	1,516

Note: Detail may not add to totals due to rounding.

Matthew



BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 20170271-EI

IN RE: PETITION FOR RECOVERY OF COSTS
ASSOCIATED WITH NAMED TROPICAL SYSTEMS
DURING THE 2015, 2016, AND 2017 HURRICANE
SEASONS AND REPLENISHMENT OF STORM RESERVE
SUBJECT TO FINAL TRUE-UP, TAMPA ELECTRIC
COMPANY.

OF

JEFFREY S. CHRONISTER

1		BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION
2		PREPARED DIRECT TESTIMONY
3		OF
4		JEFFREY S. CHRONISTER
5		
6	Q.	Please state your name, address, occupation and employer.
7		
8	A.	My name is Jeffrey S Chronister. My business address is
9		702 North Franklin Street, Tampa, Florida 33602. I am
10		employed by Tampa Electric Company ("Tampa Electric" or
11		"the company") as Controller, Tampa Electric.
12		
13	Q.	Please describe your duties and responsibilities in that
14		position?
15		
16	A.	I am responsible for maintaining the financial books and
17		records of the company and for the determination and
18		implementation of accounting policies and practices for
19		Tampa Electric. I am also responsible for budgeting
20		activities within the company.
21		
22	Q.	Please provide a brief outline of your educational
23		background and business experience.
24		
25	A.	I graduated from Stetson University in 1982 with a

Bachelor of Business Administration degree in Accounting. Upon graduation I joined Coopers & Lybrand, an independent public accounting firm, where I worked for four years before joining the company in 1986. I started in Tampa Electric's Accounting department, moved to TECO Energy's Internal Audit department in 1987, and returned to the Accounting department in 1991. I am a Certified Public Accountant in the State of Florida and I am a member of both American Institute of Certified the Public ("AICPA") and the Florida Accountants Institute Certified Public Accountants ("FICPA"). I have served in my current position as Controller of Tampa Electric since July 2009.

14

15

16

1

2

3

5

6

8

10

11

12

13

Q. Have you previously testified before the Florida Public Service Commission ("Commission")?

17

18

19

20

21

22

23

24

25

I have testified or filed testimony before this Α. Yes, Commission in several dockets. Most recently, I testified for Tampa Electric in Docket No. 20130040-EI, which was Tampa Electric's last base rate proceeding. The testimony in that case included the same topics I testify to in this case. I also filed testimony in Docket No. 20080317-EI, Tampa Electric Company's Petition for An Increase In Base Rates And Miscellaneous Service Charges, Docket No.

19960007-EI, Tampa Electric's Environmental Cost Recovery Clause, and Docket No. 19960688-EI, Tampa Electric's environmental compliance activities for purposes of cost recovery.

5

6

1

2

3

Q. What is the purpose of your direct testimony in this proceeding?

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

The purpose of my direct testimony is to support the Α. company's calculation of the costs incurred by Electric during the 2015, 2016 and 2017 storm seasons in connection with the five named tropical storms: Tropical Storm ("TS") Erika, TS Colin, Hurricane Hermine, Hurricane Matthew and Hurricane Irma. My direct testimony supports the cost recovery in this proceeding and demonstrates that Tampa Electric's storm restoration and recovery accounting processes and controls are well established, documented, and implemented by personnel that are suitably trained, to accounting ensure proper storm and ratemaking. Specifically, my direct testimony will show that Tampa Electric has effective appropriate controls and accounting procedures for storm events, and that accounting for the five named tropical storms in this proceeding was performed in accordance with the Incremental Cost and Capitalization Approach ("ICCA") methodology required under

Rule 25-6.0143, Florida Administrative Code ("F.A.C.").

2

1

Q. Would you please provide a summary of your direct testimony?

4

5

6

8

10

11

12

13

14

15

16

17

18

19

20

21

22

3

Α. Tampa Electric's long-standing accounting control processes and procedures were employed for the five named tropical storms, and those control processes continue to ensure storm accounting and ratemaking. The ICCA proper methodology found in Rule 25-6.0143, F.A.C. was applied to each storm cost type to determine the amount recoverable from Tampa Electric's customers. My Exhibit No. JSC-1, Document No. 3 titled "Tampa Electric's Recoverable Restoration Costs by Cost Type" includes a detail of the five named tropical storm's recoverable costs by cost type in accordance with the ICCA methodology required under Rule 25-6.0143, F.A.C. The total recoverable restoration costs Tampa Electric is seeking to recover in this proceeding is \$99,675,710, which excludes any interest provision on the storm costs that exceeded the company's storm reserve or regulatory assessment fees. This amount will fully deplete and exceed the \$55,860,642 October 31, 2013 pre-storm balance in the company's reserve account.

23

24

25

Q. Did you prepare any other exhibits that support your direct testimony?

1	A.	Yes. I have eight	documents within Exhibit No. JSC-1 that
2		support my direct	testimony that were prepared under my
3		direction and super	rvision. These eight Documents provide
4		detail for the tota	l recoverable and non-recoverable costs
5		that were incurre	ed by Tampa Electric in performing
6		restoration for the	five named tropical storms.
7			
8		Document No. 1:	Tampa Electric Company's Storm
9			Restoration Cost Summary
10		Document No. 2:	Tampa Electric Company's Recoverable
11			Restoration Costs by Cost Element
12		Document No. 3:	Tampa Electric Company's Recoverable
13			Restoration Costs by Cost Type
14		Document No. 4:	Tampa Electric Company's Recoverable
15			Restoration Costs by Function
16		Document No. 5:	Tampa Electric Company's Storm
17			Restoration Costs by Function
18		Document No. 6:	Tampa Electric Company's Storm Reserve
19			Balance History
20		Document No. 7:	Tampa Electric Company's Associated
21			Interest Expense for Restoration Costs
22			Exceeding the Company's Reserve
23		Document No. 8:	Tampa Electric Company's Actual
24			Incremental Storm Costs 2015 through
25			2017

Q. What is the total storm restoration cost incurred by Tampa Electric for the five named tropical storms?

3

4

5

6

2

1

A. Tampa Electric incurred a total of \$111,692,589 of storm restoration costs, as reflected on my Exhibit No. JSC-1, Document No. 1. This includes \$9,113,445 of capital and \$2,903,433 of operations and maintenance expense ("O&M") costs the company is not seeking to recover.

9

10

11

8

Q. What are the storm costs Tampa Electric is seeking to recover from each of the five named tropical storms?

12

13

14

15

16

17

18

19

20

21

22

23

24

25

Tampa Electric is seeking to recover a total of \$100,369,592 Α. for prudently incurred storm restoration costs. This total recoverable cost is developed from the five named tropical storms as follows: \$710,037 from TS Erika; \$2,547,505 from TS Colin; \$5,361,042 from Hurricane Hermine; \$1,039,216 from Hurricane Matthew; \$90,017,921 from Hurricane Irma; \$621,694 for the interest expenses through May 31, 2018 associated with the restoration costs that exceeded the and \$72,214 for company's storm reserve; Regulatory Assessment Fees which are detailed in my Exhibit No. JSC-1, Document Nos. 1 through 5 and Document No. 8. These costs were updated from Tampa Electric's 2017 Amended Petition, Exhibit D, page 2 of 2, filed on January 30, 2018.

Q. Were any of these numbers above adjusted from what was filed in Tampa Electric's initial or amended petition in this proceeding?

4

5

6

8

10

11

12

13

14

15

16

17

1

2

3

Α. In Tampa Electric's Petition filed on December 28, 2017 in this proceeding, the costs related to Hurricane Irma were estimated to be \$77,656,721 and the total costs for all five named tropical storms were estimated to be \$87,377,388. In Tampa Electric's Amended Petition in this proceeding, filed on January 30, 2018, the costs related to Hurricane Irma were updated to \$92,818,327 and the total costs for all five named tropical storms were updated to At the time Tampa Electric filed these \$99,675,710. petitions, the costs for Hurricane Irma were not final because of the ongoing receipt of invoices for storm These amounts have also been updated in my activities. Exhibit No. JSC-1, based on the receipt of final invoices.

18

19

20

Q. Is Tampa Electric aware of any other adjustments that need to be made?

21

22 **A.** No.

23

24

25

Q. Did Tampa Electric notify the Commission in any of the five named tropical storms that the restoration costs were

expected to exceed \$10 million?

2

3

4

5

6

1

A. Yes. In accordance to Rule 25-6.0143, F.A.C., the company notified the Commission on September 13, 2017 that the storm-related damages for Hurricane Irma were expected to exceed \$10 million. The four other named tropical systems were never estimated to exceed \$10 million.

8

9

10

11

Q. What operational internal controls and procedures are in place during storm restoration to ensure storm accounting policies are followed?

12

13

14

15

16

17

18

19

20

21

22

23

24

25

Finance/Accounting employees are key to storm restoration As reflected in the Direct accounting and controls. Testimony of Tampa Electric's Witness Gerald C. Chasse, the Electric Command Center Tampa Unified organization recognizes the critical role and responsibilities of these employees. Finance/Accounting representatives are assigned to each staging and processing site (referred to as "Finance Section Chiefs") to ensure active, real-time financial controls are in effect and adhered to during the storm restoration event. Responsibilities of the Finance Section Chiefs include: (1) ensuring procedural compliance with internal cost controls; (2) providing quidance and oversight to ensure prudent spending; (3) collecting and

analyzing data real-time such as timesheets; (4)assisting with the proper accounting of mutual aid resources. Employees from Tampa Electric's Human Resources department are also embedded at many sites and perform internal control support tasks such as providing guidance on the proper information to include on timesheets. addition, each business unit has a finance representative (referred to as a "Business Unit Coordinator") performing storm controllership function for their respective business units, which includes communicating the storm plant maintenance order ("PMO") charging instructions to the personnel directly supporting storm restoration, ensuring that appropriate costs are charged to the storm PMOs, as well as preparing cost estimates before, during, and after the restoration is complete.

16

1

2

3

5

6

8

9

10

11

12

13

14

15

Q. How does Tampa Electric track storm restoration costs?

18

19

20

21

22

23

24

25

17

Electric establishes Tampa unique functional Α. (i.e., distribution, transmission, generation and other) PMOs for total amount of each storm to aggregate the storm restoration costs incurred for financial reporting and regulatory recovery purposes. The company uses these PMOs to account for all costs directly associated with storm restoration, including costs that will not be recoverable from Tampa Electric's storm reserve based the Commission's requirements under the ICCA methodology. All incremental storm restoration costs charged to storm PMOs captured in Federal Energy Regulatory Commission are ("FERC") Account 186, Miscellaneous Deferred Debits. charged FERC incremental costs to Account 186 are subsequently cleared and charged to the storm reserve, O&M or capital. Non-incremental charges are charged to O&M or capital, accordingly.

10

11

12

8

9

1

2

3

5

6

Q. How does Tampa Electric determine when to start charging storms costs?

13

14

15

16

17

18

19

20

21

22

23

24

25

Α. As detailed in the direct testimony of witness Chasse, if a storm has the potential to threaten Florida and the company's service area, the Electric Delivery Incident Commander will initiate calls with the Electric Delivery Operations team. Dependent on the storm's intensity and forecasted track and impacts, at approximately the five to seven-day range, the Electric Delivery Incident Commander will initiate full or partial Electric Delivery Incident If forecasts for impacts continue to Command Structure. hold, all other areas of the company are quickly activated to execute their responsibilities within the plan. This includes the Finance Cost Estimation team, which

establishes and activates storm PMOs to begin tracking costs for each named tropical communication is sent to all business units to inform them that storm PMO's have been activated for purposes of collecting storm restoration charges. email, Tampa Electric also provides: (1) a listing of PMOs by function and location; (2) guidance on recording time for payroll; and (3) guidance on the types of costs eligible to be charged to storm PMOs. The pre-landfall costs charged to the storm PMOs include the acquisition of external resources (e.g., line and vegetation crews), mobilization and pre-staging of internal and external resources, opening of staging and processing sites, reserving lodging, and securing Tampa Electric's existing operational facilities

16

17

18

1

2

3

5

6

8

10

11

12

13

14

15

When did Tampa Electric start charging costs to each of the five named tropical storms?

in preparation for the impacts of the storm.

system.

An

Attached to the

email

19

20

21

22

23

Α. Tampa Electric began charging costs for TS Erika in August 2015, TS Colin in June 2016, Hurricane Hermine in August 2016, Hurricane Matthew in October 2016, and Hurricane Irma in September 2017.

24

25

Did Tampa Electric follow and apply the ICCA, as described Q.

in Rule 25-6.0143, F.A.C., for the costs that the company is seeking recovery for in this proceeding?

3

4

1

2

A. Yes.

5

6

Q. What types of costs are included in the amounts for which Tampa Electric is seeking recovery?

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

In accordance with Rule 25-6.0143, F.A.C., the categories Α. of costs that were properly accounted for in the calculation of Tampa Electric's total recoverable restoration costs include: (1) contract labor hired for storm restoration activities; (2) logistics costs of providing lodging, and linens for tents and other staging areas; (3) transportation of crews for storm restoration; (4) vehicle rented costs for vehicles specifically for storm restoration activities; (5) waste management costs specifically related to storm restoration activities; (6) rental equipment specifically related to storm restoration activities; (7) materials and supplies used to repair and restore service and facilities to pre-storm condition; (8) overtime payroll and incremental payroll-related costs for utility personnel included in storm restoration activities; and (9) fuel cost for company and contractor vehicles used in storm restoration activities.

Q. Please explain how Tampa Electric determines the non-incremental O&M costs incurred from the five named tropical storms?

4

5

6

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

1

2

3

Α. Once all incremental costs were incurred and recorded to FERC Account 186, the accounting department completed a detailed review to determine amounts which were incremental under the ICCA methodology prescribed in Rule 25-6.0143, F.A.C. Per the ICCA methodology, incremental costs are those that are included in normal base rate operations. As reflected in the Direct Testimony of Tampa Electric's Witness S. Beth Young, the company the excluded following restoration costs that were incurred: (1) payroll costs that are already recovered in base rates; (2) bonuses for utility personnel not eligible for overtime pay; (3) utility call center and customer service budgeted overtime; and (4) non-incremental costs associated with the storm events. Additionally, tree trimming expenses that totaled less than the actual monthly average of tree trimming costs charged to O&M expense for the same month in the three previous calendar years were excluded.

23

24

25

Q. Would you explain how Tampa Electric determines the capital costs incurred from the five named tropical storms?

All incremental storm restoration costs (including follow-Α. up work) are charged to FERC Account 186, Miscellaneous Deferred Debits. Non-incremental charges are charged to O&M or capital, accordingly. Once storm restoration is complete, Tampa Electric totals the amount of capital costs in accordance with capitalization guidance provided within Federal Regulations ("CFR") Code of Conservation of Power and Water Resources, Florida Administrative Code and Generally Accepted Accounting Principles ("GAAP"), which includes both materials and The capital costs for functional determined based on actual work performed and are then likewise recorded to the balance sheet in accordance with Tampa Electric's capitalization guidance as listed above. Once the capital jobs are completed, the capital work in progress ("CWIP") account is credited and the appropriate functional plant account in FERC Account 101, Plant in Service, is debited based on the actual cost of installed Retirements of fixed assets removed units of property. during storm restoration are recorded when the new incurred capital costs are placed in service.

22

23

24

25

1

2

3

4

5

6

8

9

10

11

12

13

14

15

16

17

18

19

20

21

Q. Please describe the process that is followed by Tampa Electric after each storm to ensure the charges that are being charged to that specific storm are appropriate to be

billed?

A. Throughout storm restoration, the operating and business units estimate, validate, record and pay storm costs. Extensive documentation is collected throughout the storm and restoration and after each storm invoices are validated against the operational documentation and any discrepancies are researched, disputed and resolved, resulting in the payment of appropriate charges. Also, as reflected in the direct testimony of witness Young, Tampa Electric's Foreign Crew Coordination Unit reviews all invoices prior to paying. If a discrepancy is found, the Foreign Crew Coordination Unit will follow up with the specific company and work out the discrepancy. No invoice is released for payment if there are outstanding discrepancies.

Q. Please provide background on Tampa Electric's storm reserve.

A. Tampa Electric maintains a property insurance reserve account (Account No. 228.1), in accordance with Rule 25-6.0143, F.A.C., which is designated to cover the costs of storm-related damages to the utility's own property or property leased by others that is not covered by insurance.

In Order No. PSC-93-1570-FOF-E1, issued on October 27,

1993, the Commission approved Tampa Electric's proposal to accrue \$4 million annually to its property insurance reserve account ("storm reserve"). Subsequently, Order No. PSC-95-0255-FOF-EI, issued February 23, 1995, on established a target storm reserve balance of \$55 million. Tampa Electric accrued \$4 million each year to the storm reserve and in 2003, the balance had reached \$40 million. Then in 2004, Tampa Electric incurred \$73.4 million of storm restoration costs due to Hurricanes Charley, Frances and Jeanne. Order No. PSC-05-0675-PAA-EI, In Approving Stipulation and Settlement, Tampa Electric capitalized \$38.9 million of the total storm restoration costs of \$73.4 million, leaving \$34.5 million of storm restoration costs to be charged against the storm reserve. As a result of capitalizing the \$38.9 million, the storm reserve had an \$7.8 million positive balance as of August 1, 2004, rather than a \$31.1 million deficit.

18

19

20

21

22

23

24

25

1

2

3

5

6

8

9

10

11

12

13

14

15

16

17

In Tampa Electric's 2008 Petition for Rate Increase, Docket No. 20080317-EI, the company sought approval to modify the storm reserve accrual and target balance. Commission Order No. PSC-09-0283-FOF-EI approved an increase of the storm accrual to \$8 million per year and established a storm reserve target balance of \$64 million. Then, in the company's 2013 Stipulation and Settlement Agreement, Docket

No. 20130040-EI, Tampa Electric agreed to stop accruing \$8 million per year to the storm reserve and instead would seek recovery of storm restoration costs when the storm reserve balance was depleted. In accordance with Order No. PSC-13-0443-FOF-EI, issued on September 30, 2013, approving the 2013 Stipulation and Settlement Agreement, the storm reserve balance was set at \$55,860,642, which was the amount of the reserve balance on October 31, 2013. During the 2015, 2016 and 2017 in connection with the five named tropical storms, Tampa Electric incurred \$99,675,710 of recoverable storm restoration costs due to the five named tropical storms. The storm reserve balance was fully depleted and exceeded the \$55,860,642 October 31, 2013 prestorm reserve balance in the company's storm reserve account by \$43,815,069, which is detailed in my Exhibit No.

17

1

2

3

5

6

8

10

11

12

13

14

15

16

Q. Is Tampa Electric's storm reserve funded or unfunded?

JSC-1, Document No. 6.

19

20

21

22

23

24

25

18

A. The company's reserve is unfunded; therefore, the company has been able to utilize the storm reserve to fund its general operation activities over several years. However, with the amount of storm costs incurred during the five named tropical storms identified in this proceeding, the company's storm reserve balance has been exceeded and

requires the company to raise additional capital to pay for those costs. As such, Tampa Electric is seeking recovery for only the short-term debt costs associated with the portion of storm costs incurred above the company's reserve. This associated interest expense for the storm costs exceeding the reserve is detailed in my Exhibit No. JSC-1, Document No. 7.

Q. Does or will Tampa Electric expect to receive any insurance reimbursement from any of the five named tropical storms?

A. No.

Q. Does or will Tampa Electric expect to receive any thirdparty reimbursement from any of the five named tropical storms?

A. No.

Q. Do all the costs that Tampa Electric is seeking to recover for the five named tropical storms and the cost calculation methodologies used to develop these costs in this petition comply with Tampa Electric's 2017 Settlement Agreement?

A. Yes.

Q. How will the netting of storm damage costs against estimated annual tax savings be trued up and finally resolved, once the final amount of storm costs authorized to be recovered and the final determination of the impact of tax reform on Tampa Electric's base rates and charges are determined?

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

5

1

2

3

As stated in Order No. PSC-2018-0125-PCO-EI, issued on Α. March 7, 2018, in this proceeding, Approving Interim Storm which includes Recovery Charge, the Implementation Settlement Agreement, a final determination of storm costs and the impact of tax reform shall be made in separate difference will dockets and any be trued-up and recovered/refunded to customers through the 2019 Energy Conservation Cost Recovery Clause with the full impact of tax reform reflected in a change in base rates in January 2019. The approval of interim Storm Cost Recovery Charge factors is preliminary in nature and is subject to true-up further review once the total actual pending storm restoration costs are reviewed and approved. After the actual costs are reviewed for prudence and reasonableness and are compared to the actual amount recovered through the interim Storm Cost Recovery Charge, a determination will be made whether any over/under recovery has occurred and the appropriate steps to be taken for a refund or additional charge would be considered by the Commission at a later

date.

2

3

4

5

1

Q. Would you explain how adjustments will be made at the end of the recovery period to ensure the company only recovers the amount that is being sought?

6

7

8

9

10

11

12

13

14

15

with the 2017 Α. In accordance Amended and Restated Stipulation and Settlement Agreement ("2017 Agreement"), the 2018 net effect on net income from the related tax reform, storm reserve and deferred entries will be zero. In 2019, the difference between the 2018 tax reform benefits and storm reserve amount will flow through the Energy Conservation Cost Recovery Clause, as needed. Further refinement of the 2018 tax reform benefits will be determined through a separate proceeding.

16

17

18

19

20

Q. Is the proposed storm cost recovery method consistent with the 2017 Agreement, approved by the Commission in Order No. PSC-2017-0456-S-EI, issued on November 27, 2017 in Docket Nos. 20170210-EI and 20160160-EI?

21

22

23

24

25

A. Yes. The methodology is consistent with provisions of the 2017 Agreement addressing Storm Damage and Federal Income Tax Reform, respectively. The Amended Implementation Stipulation was approved by the Commission at the March 1,

2018 Agenda Conference, as reflected in Order No. PSC-2018-0125-PCO-EI, issued on March 7, 2017. Does this conclude your direct testimony? Q. Yes, it does. Α.

TAMPA ELECTRIC COMPANY DOCKET NO. 20170271-EI WITNESS: CHRONISTER

EXHIBIT

OF

JEFFREY S. CHRONISTER

TAMPA ELECTRIC COMPANY DOCKET NO. 20170271-EI EXHIBIT NO. ___ (JSC-1) WITNESS: CHRONISTER PAGE 1 OF 1

Table of Contents

DOCUMENT NO.	TITLE	PAGE
1	Tampa Electric's Storm Restoration Cost Summary	24
2	Tampa Electric's Recoverable Restoration Costs by Cost Element	25
3	Tampa Electric's Recoverable Restoration Costs by Cost Type	26
4	Tampa Electric's Recoverable Restoration Costs by Function	27
5	Tampa Electric's Storm Restoration Costs by Function	28
6	Tampa Electric's Storm Reserve Balance History	29
7	Tampa Electric' Associated Interest Expense for restoration Cost Exceeding the Company's Reserve	30
8	Tampa Electric's Actual Incremental Storm Costs 2015 through 2017	31

Tampa Electric's Storm Restoration Cost Summary (In \$ Thousands)

		Total Storm			Recoverable
Year	Storm	Restoration Costs	Capital	O&M	Costs
2015	Erika	710	0	0	710
2016	Colin	2,548	0	0	2,548
2016	Hermine	5,731	370	0	5,361
2016	Matthew	1,046	9	0	1,039
2017	Irma	101,659	8,737	2,903	90,018
	Total	111,693	9,113	2,903	99,676

Detail may not add to totals due to rounding Notes:

Prior to Hurricane Irma in 2017, Tampa Electric did not track non-recoverable O&M.

TAMPA ELECTRIC COMPANY DOCKET NO. 20170271-EI

EXHIBIT NO. WITNESS:

FILED:

DOCUMENT NO. 1 PAGE 1 OF 1

(JSC-1)

CHRONISTER

05/21/2018

Tampa Electric's Recoverable Storm Restoration Costs by Cost Element

(In \$ Thousands)

Total Storm

	Restoration					
	Recoverable Costs	Erika	Colin	Hermine	Matthew	Irma
Labor	10,478	63	641	855	205	8,713
Employee Expense	4,892	24	133	192	12	4,530
Outside Services - Line Clearance	7,124	78	128	333	180	6,406
Outside Services - Other Services	75,081	545	1,637	3,885	637	68,377
Materials & Supplies	1,968	0	∞	46	9	1,909
Rent Expense	27	0	0	16	0	11
Other Operating Expense	105	0	0	33	0	72
Total	99,676	710	2,548	5,361	1,039	90,018

Note: Detail may not add to totals due to rounding

TAMPA ELECTRIC COMPANY DOCKET NO. 20170271-EI EXHIBIT NO. ___ (JSC-1) WITNESS: CHRONISTER

DOCUMENT NO. 2

PAGE 1 OF 1 FILED: 05/21/2018

TAMPA ELECTRIC COMPANY DOCKET NO. 20170271-EI EXHIBIT NO. ____ (JSC-1)

WITNESS: CHRONISTER

DOCUMENT NO. 3

PAGE 1 OF 1 FILED: 05/21/2018

Tampa Electric's Recoverable Storm Restoration Costs by Cost Type (In \$ Thousands)

	Total Storm Restoration						
	Recoverable Costs	Erika	Colin	Hermine	Matthew	Irma	
Contractors	81,609	622	1,765	4,218	816	74,187	
Logistics	4,987	24	127	225	12	4,599	
Transportation of Crews	223	0	9	0	0	216	
Vehicle Rentals	16	0	0	16	0	0	
Waste Management	39	0	П	0	0	39	
Rental Equipment	11	0	0	0	0	11	
Materials & Supplies	1,362	0	2	38	9	1,317	
Labor	10,478	63	641	855	205	8,713	
Fuel	951	0	9	∞	0	936	
Total	99,676	710	2,548	5,361	1,039	90,018	PI

Note: Detail may not add to totals due to rounding

Tampa Electric's Recoverable Storm Restoration Costs by Function

(In \$ Thousands)

Total Storm

	Restoration Recoverable Costs	Erika	Colin	Hermine	Matthew	Irma
Generation	1,516	0	0	0	0	1,516
Transmission	310	0	23	24	32	230
Distribution	96,075	710	2,522	5,213	966	86,633
Other	1,775	0	2	123	11	1,639
Total	99,676	710	2,548	5,361	1,039	90,018

Note: Detail may not add to totals due to rounding.

TAMPA ELECTRIC COMPANY DOCKET NO. 20170271-EI EXHIBIT NO. ___ (JSC-1) WITNESS: CHRONISTER

DOCUMENT NO. 4 PAGE 1 OF 1

FILED: 05/21/2018

Tampa Electric's Storm Restoration Costs by Function

(In \$ Thousands)

Note: Detail may not add to totals due to rounding

TAMPA ELECTRIC COMPANY DOCKET NO. 20170271-EI EXHIBIT NO. ___ (JSC-1) WITNESS: CHRONISTER

DOCUMENT NO. 5 PAGE 1 OF 1

FILED: 05/21/2018

TAMPA ELECTRIC COMPANY DOCKET NO. 20170271-EI EXHIBIT NO. ____ (JSC-1)

WITNESS: CHRONISTER

DOCUMENT NO. 6

PAGE 1 OF 1

FILED: 05/21/2018

Tampa Electric's Storm Reserve Balance History 1994-2017

(In \$ Thousands)

		Storm Expense	Restoration Cost		
Year	Beginning Balance	Accrual	Incurred	Transfer to Capital	Ending Balance
1997		(000 17)	C	C	(000 1/)
0 0		(000,+)			(000't)
1995		(4,000)	0	O	(000,8)
1996	(8,000)	(4,000)	0	0	(12,000)
1997	7 (12,000)	(4,000)	0	0	(16,000)
1998	8 (16,000)	(4,000)	0	0	(20,000)
1999	(20,000)	(4,000)	0	0	(24,000)
2000	0 (24,000)	(4,000)	0	0	(28,000)
2001	1 (28,000)	(4,000)	0	0	(32,000)
2002	(32,000)	(4,000)	0	0	(36,000)
2003	(36,000)	(4,000)	0	0	(40,000)
2004	(40,000)	(4,000)	71,965	0	27,965
2002	5 27,965	(4,000)	2,394	(38,877)	(12,518)
2006	6 (12,518)	(4,000)	220	0	(16,298)
2007	7 (16,298)	(4,000)	(12)	0	(20,310)
2008	8 (20,310)	(4,000)	1,658	0	(22,652)
2009	9 (22,652)	(6,667)	0	0	(29,319)
2010	0 (29,319)	(8,000)	0	0	(37,319)
2011	1 (37,319)	(8,000)	1,925	0	(43,394)
2012	(43,394)	(8,000)	1,185	0	(50,209)
2013	(50,209)	(6,667)	1,015	0	(55,861)
2014	4 (55,861)	0	0	0	(55,861)
2015	5 (55,861)	0	0	0	(55,861)
2016	5 (55,861)	0	0	0	(55,861)
2017	7 (55,861)	0	102,555	0	46,694
2018	8 46,694	01	(2,879)	01	43,815
			Amount needed t	Amount needed to Replenish Reserve	929'66
				Resulting Reserve	55,861

*The \$43,815K is the expected reserve balance as of May 31, 2018

TAMPA ELECTRIC COMPANY DOCKET NO. 20170271-EI EXHIBIT NO. ____ (JSC-1)

WITNESS: CHRONISTER

DOCUMENT NO. 7
PAGE 1 OF 1

FILED: 05/21/2018

Tampa Electric's Associated Interest Expense for Restoration Costs Exceeding the Company's Reserve

Reserve Balance	G/L Balance	S/T Debt Rate	Interest
Nov-13	\$ (55,860,642)		_
8/1/2017 1	\$ (46,205,643)		
Sep-17	\$ 13,794,357	2.25%	\$ 16,381
Oct-17	\$ 19,294,357	2.25%	\$ 36,177
Nov-17	\$ 29,794,357	2.25%	\$ 55,864
Dec-17	\$ 46,694,357	2.25%	\$ 87,552
Jan-18	\$ 46,694,357	2.25%	\$ 87,552
Feb-18	\$ 46,694,357	2.25%	\$ 87,552
Mar-18	\$ 45,794,357	2.25%	\$ 85,864
Apr-18	\$ 44,052,660	2.25%	\$ 82,599
May-18	\$ 43,815,069	2.25%	\$ 82,153
			\$ 621,694

¹ Change in reserve due to charges from TS Erika, TS Colin, Hurricane Matthew and Hurricane Hermine.

Tampa Electric Company
Storm Restoration Costs Related to Named Tropical Storms Colin, Erika, Hermine, Matthew, & Irma (\$000's)

		S	Storm Restoration Costs by Storm	Costs by Storm				
Line		Colin	Erika	Hermine	Matthew	Irma	Total	Storm Loss Recovery
No.		(1)	(2)	(3)	(4)	(5)	(9)	(2)
1	Storm Reserve Balance (Pre-Storm)							(55,861)
2	Labor	641	63	855	205	8,713	10,478	
ĸ	Outside Services - Line Clearance	128	78	333	180	6,406	7,124	
4	Outside Services - Services Expense	1,637	545	3,885	637	68,377	75,081	
5	Materials & Supplies Expense	8	0	42	2	815	998	
9	M&S Inventory Issue	0	0	4	ε	1,094	1,102	
7	Other Operating Expense	0	0	33	0	72	105	
∞	Employee Expense	133	24	192	12	4,530	4,892	
6	Rent Expense	0	0	16	0	11	27	
10	Total Recoverable Storm-Related Restoration Costs/Losses	2,548	710	5,361	1,039	90,018	99,676	96,676
11	Amount of Reserves used to Fund Storm Costs							929'66
12	Balance of Storm Reserve after Funding Storm Costs							43,815
13	Amount Needed to Replenish Reserve to Oct 2013 Level as per Settlement Agreement (Exhibit A of Order No. PSC-2017-0456-S-EI)	tlement Agreement (Exhil	bit A of Order No.	PSC-2017-0456-S-EI				929'66
14	Interest on Storm Balance Exceeding Reserve							622
15	Subtotal - System Storm Losses to be Recovered from Customers							100,297
16	Regulatory Assessment Fee Multiplier						1	1.00072
17	Total System Storm Losses to be Recovered from Customers ("Recoverable Storm Amount")	overable Storm Amount")						100,370

TAMPA ELECTRIC COMPANY
DOCKET NO. 20170271-EI
EXHIBIT NO. ____ (JSC-1)
WITNESS: CHRONISTER
DOCUMENT NO. 8
PAGE 1 OF 1

05/21/2018

FILED:



BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 20170271-EI

IN RE: PETITION FOR RECOVERY OF COSTS
ASSOCIATED WITH NAMED TROPICAL SYSTEMS
DURING THE 2015, 2016, AND 2017 HURRICANE
SEASONS AND REPLENISHMENT OF STORM RESERVE
SUBJECT TO FINAL TRUE-UP, TAMPA ELECTRIC
COMPANY

DIRECT TESTIMONY AND EXHIBIT

OF

S. BETH YOUNG

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION 1 PREPARED DIRECT TESTIMONY 2 3 OF S. BETH YOUNG 5 INTRODUCTION I. 6 Please state your name, address, occupation and employer. 7 8 My name is S. Beth Young. My business address is 820 S. 9 Α. 78th St, Tampa, Florida 33619. I am employed by Tampa 10 11 Electric Company ("Tampa Electric" or "the company") in the Electric Delivery Department as the Director, Asset 12 Management, Planning, & Support. 13 14 Please describe your duties and responsibilities in that 15 16 position. 17 My duties and responsibilities include the governance and 18 Α. oversight of Tampa Electric's transmission and distribution 19 assets, including capital allocation, system planning, 20 reliability planning and system maintenance, in addition to 21 responsibilities for studies in support of transmission 22 23 service. My duties and responsibilities also include support for the Electric Delivery Department's operations 24 25 in the areas of warehousing, fleet, line clearance,

geographic information system ("GIS") and mapping services, and the Electric Delivery Department's emergency response and planning.

4

5

6

1

2

3

Q. Please describe your educational background and professional experience.

7

8

9

10

11

12

13

14

15

16

17

18

I received my Bachelor of Science degree in Electrical Α. Engineering from the University of South Florida in 1983. I am a registered professional engineer in the state of Florida. I joined Tampa Electric as a co-operative education student in 1980 and became a full-time team member as an associate engineer in 1983. From 1983 through present, I have held various positions as an engineer, manager, and director in Tampa Electric's Electric Delivery Department working in Transmission, Substation, Distribution, System Operations, Project Management, Lighting, and Support Services.

19

20

21

Q. Have you previously testified before the Florida Public Service Commission ("Commission")?

22

23

24

25

A. Yes, I testified before the Commission in Docket No. 20120234-EI, Tampa Electric's Petition to Determine Need for Polk 2-5 Combined Cycle Conversion and in Docket No.

20130040-EI, Tampa Electric's 2013 petition for an increase in base rates and miscellaneous charges.

3

4

1

2

Q. What is the purpose of your direct testimony in this proceeding?

6

7

8

10

11

12

13

14

15

16

17

18

19

20

21

22

5

The purpose of my direct testimony is to describe how Tampa Α. Electric acquires, stages and manages foreign crew resources in assisting with large scale restoration efforts as well as explain why the costs incurred for those activities were prudent in order to achieve restoration of the company's electric system. My direct testimony will also include an overview of Tampa Electric's indirect transmission and distribution ("T&D") restoration efforts and cost details related to restoration activities of the company during the five named tropical storms in 2015, 2016 and 2017. These named tropical systems include: Tropical Storm ("TS") Erika, TS Colin, Hurricane Hermine, Hurricane Matthew and Hurricane Irma. My direct testimony also supports the reasonableness and prudence of those restoration activities and the associated costs for which Tampa Electric is seeking recovery.

23

24

Q. Are you sponsoring any exhibits in this proceeding?

25

Yes, I am sponsoring Exhibits No. SEY-1, Documents No. 1 Α. and No. 2 that were prepared under my direction and Exhibit No. SEY-1, Document No. 1 titled supervision. "Tampa Electric's Recoverable Restoration Costs of Foreign Crews". This Document details the company's recoverable foreign crew restoration storm costs by function and by storm that assisted Tampa Electric in restoring the company's electrical systems in the five named tropical storms in this proceeding. Exhibit No. SEY-1, Document No. 2 titled "Tampa Electric's Indirect Recoverable Restoration Costs by Storm and Function". This Document details the company's costs incurred by Electric Non-Transmission and Non-Distribution Tampa personnel that supported the restoration of the company's electrical systems in the five named tropical storms in this proceeding.

17

18

19

20

1

2

3

5

6

8

9

10

11

12

13

14

15

16

II. Acquiring, Staging and Managing Foreign Crew Resources

Q. Would you explain what a "foreign crew resource" is and provide an overview of how Tampa Electric acquires foreign crew resources?

21

23

24

25

A. A foreign crew resource is a work crew supplied by a third party (not native utility nor native contractor employees) that is contracted to work on emergency or storm restoration

activities for the native utility. Tampa Electric monitors all storms that could potentially impact the company's service area. Tampa Electric's Electric Delivery Department conducts numerous phone calls in advance of a storm to discuss the readiness of the company to prepare During these calls, projected for the impending storm. outages and required resources are discussed. Depending on the projected number of outages, the number of foreign crew resources necessary to restore service in a timely manner is identified. If necessary, the company communicates with the Southeastern Electric Exchange ("SEE") and non-SEE companies to obtain additional resources.

13

14

15

1

2

3

5

6

8

10

11

12

Q. What types of foreign crew resources does Tampa Electric utilize?

16

17

18

19

20

21

A. Depending on the projected and actual needs for additional assistance, Tampa Electric acquires and utilize foreign crew resources that perform line work, tree trimming, mutual assistance routing systems ("MARS") (call center assistance) and damage assessment.

22

23

24

25

Q. Which of the named tropical systems that the company is seeking cost recovery for in this proceeding did Tampa Electric acquire foreign crew resources?

ı	
A.	Tampa Electric acquired foreign crew resources to assist
	with restoration efforts in all of the named tropical
	systems that the company is seeking cost recovery for in
	this proceeding.
Q.	Please identify what type of foreign crew resources Tampa
	Electric acquired for each named tropical system that the
	company is seeking cost recovery for in this proceeding.
A.	Tampa Electric acquired the following foreign crew
	resources in the following named tropical systems:
	TS Erika: line crew and tree trimming
	TS Colin: line crew
	Hurricane Hermine: line crew, tree trimming and damage
	assessment
	Hurricane Matthew: line crew
	Hurricane Irma: line crew, tree trimming, MARS and
	damage assessment
Q.	Could Tampa Electric have restored service to its customers
	in a timely manner without the aid of foreign crew
	resources?
Α.	Not in a timely manner. For Tampa Electric to restore
	not in a cimer, mainer. For rampa Breedire to restore

service without the aid of foreign crew resources depends

on the actual magnitude of outages, the necessary work to restore and how many days would be allowed to perform the restoration. Tampa Electric currently employs 230 line Tampa Electric also has 120 contract line personnel. personnel on the system. Tampa Electric's 80 damage assessors are internal team members who are familiar with the transmission and distribution systems and the company subcontracts 230 line clearing personnel. In order to restore service during Hurricane Irma in a timely manner Tampa Electric utilized the following foreign resources: 2,523 line personnel, 194 damage assessors, 622 line clearing personnel and 137 MARS support personnel.

13

14

15

1

2

3

5

6

8

9

10

11

12

Q. Please explain how the company determines how many foreign crew resources to acquire.

16

17

18

19

20

21

22

23

24

25

Tampa Electric determines the number of foreign crew Α. resources to acquire by utilizing a model that takes as an input the track, size and intensity of the storm. The company estimates the number of customer outages, the amount of damage and the overall number of man-hours required restore the system. Utilizing to information, the company determines how many foreign crew resources to request based on the targeted number of days Tampa Electric also evaluates this information to restore.

against prior storm restoration events to validate the results.

Q. Does Tampa Electric take cost into consideration when acquiring resources for storm restoration?

A. Yes, Tampa Electric considers the cost of acquiring foreign crew resources for storm restoration assistance. Tampa Electric's restoration process works to minimize costs for foreign crew resources by releasing more expensive resources first, releasing foreign crew resources to other utilities as early as practical to minimize travel costs even before the electrical system is fully restored, and keeping the most efficient resources until the system is fully restored.

Q. Does Tampa Electric have business controls in place for the acquisition of foreign crew resources?

A. Yes, the company has a documented process to control the acquisition of foreign crew resources. Tampa Electric's Energy Delivery Command will determine the required number of resources based on the projected damage estimates and the targeted estimated time to restore ("ETR"). Resources are obtained from the SEE member companies in a documented

process and/or from non-SEE companies directly. All foreign resources obtained are communicated with and are tracked by the company's Foreign Crew Coordination ("FCC") unit, who communicates with other groups such as Logistics and Planning as to their availability and for providing necessary logistical services. Once the foreign resources longer required, Electric Delivery's Planning are section notifies the FCC unit and the appropriate notifications of the crew members and their home companies As invoices are received, the FCC reconciles are made. them against company documentation for accuracy and proper documentation.

13

14

15

1

2

3

5

6

8

9

10

11

12

Q. How and when do these foreign crew resources get to Tampa Electric's service area?

16

17

18

19

20

21

22

23

24

25

A. Tampa Electric pre-positions the foreign crew resources in safe locations or directs the foreign crew resources to arrive at the company after the storm has passed, so as not to put either the crews or their equipment/bucket trucks in the path of the impending storm. After the storm has passed and it is safe for these foreign crews to travel, the crews will travel to Tampa Electric's service area. Once the crews arrive, they are provided a safety briefing and then assigned a Tampa Electric lineman who directs the crew to

the restoration work area assigned and supervises their work.

3

4

5

1

2

Q. Does staging the resources away from the company's service area cause a delay in restoration?

6

7

8

9

10

11

12

13

14

15

16

17

18

19

This method of staging does not typically cause a delay. Α. If there is a delay from staging the resources remotely, it is caused by storm impacts occurring between the staging area and Tampa Electric's service area. For example, during Hurricane Irma, with the size and path projection, the foreign crews were mostly staged in Georgia to keep them out of harm's way. Once Hurricane Irma passed Florida and it was safe to travel, the road congestion issues on Interstate 75 caused a delay in getting these resources to Even though there was this the company's service area. delay due to traffic, when the crews arrived all their equipment was in working order and they immediately began assisting Tampa Electric with service restoration.

20

21

22

Q. Please explain how these foreign crews are assigned to Incident Bases to perform restoration work.

23

24

25

A. Prior to the storm impacting Tampa Electric, the Planning section utilizes the planning model to forecast the

estimated damage by Incident Base area and makes a preliminary assignment of the foreign crews. The goal is to complete each of the preliminary Incident Base areas assignments prior to the storm. After the storm has passed, an initial damage assessment is performed and damage by Incident Base area is projected. Adjustments to Incident Base assignments are made as needed and the foreign crews are sent to the appropriate Incident Base as they arrive.

Q. How does Tampa Electric ensure these foreign crews are working efficiently and the work is of high quality?

A. To ensure quality and efficient work of the company's foreign line crews, each foreign line crew is assigned a Tampa Electric lineman. The efficiency of their work is ensured more from effective planning that occurs prior to assigning these crews work. The company was very pleased with the overall efficiency and quality of the foreign line crews that performed work during Hurricane Irma. Their average work time in a 16-hour work day was approximately 12 hours. Tampa Electric's effective planning on the front end minimized idle and drive time between jobs during the restoration and ensured that sufficient materials were on hand to minimize non-productive time.

Each foreign tree trimming crew is assigned a Tampa Electric supervisor to monitor and ensure the efficiency and quality of the crew's work. Prior to each day's work during restoration it is the responsibility of the Tampa Electric supervisor to lay out the expectations for the work being assigned. Any quality control issues with tree trimming are corrected on the spot.

8

9

1

2

3

4

5

6

Q. How does Tampa Electric determine that these foreign crews are no longer needed?

11

12

13

14

15

16

17

18

10

Tampa Electric's Electric Delivery's Planning section Α. reviews the number of customers remaining out of service, the ETR's forecasted and, in collaboration with Operations section, evaluates the current needs for foreign crew resources. Foreign crew resources are released, either home or to other utilities, as the need for assistance diminishes as restoration nears completion.

19

20

21

22

Q. Is the overall cost of crews taken into consideration in making the decision as to when and what foreign crews are released during restoration?

23

24

25

A. Yes, Tampa Electric does include the overall cost of the foreign crew in this decision. Tampa Electric's

restoration process works to minimize costs for foreign crew resources by releasing more expensive resources first, releasing foreign crew resources to other utilities as early as practical to minimize travel costs even before the electrical system is fully restored, and keeping the most efficient resources until the system is fully restored.

Q. Does Tampa Electric only pay for foreign crew resources labor and equipment costs or are there other costs that Tampa Electric also pays to support these crews?

A. There are other costs. In addition to paying the contracted labor and equipment price to the company supplying the foreign crew resources, Tampa Electric also pays for the costs to fuel their vehicles and to house and feed these crew members. Examples of these other costs include hotels, mattresses and bedding if hotels are unavailable, food, water, ice and laundry services. It is also important to note that utility crews employed by and responding from other utilities to assist in restoration are reimbursed at cost in accordance with pre-existing mutual aid agreements.

Q. How do these foreign crew resources bill Tampa Electric?

A. All of the foreign crew resources will send Tampa Electric

a formal invoice for their costs to provide the restoration 1 2 assistance. 3 Does Tampa Electric review these invoices prior to paying? Q. 4 5 Yes, Tampa Electric's FCC unit reviews all invoices prior 6 Α. 7 to paying. 8 What does Tampa Electric do if there is a discrepancy in 9 Q. the invoice submitted by the foreign crew? 10 11 If there is a discrepancy with the invoice submitted by the 12 Α. foreign crew, Tampa Electric's FCC unit follows up with the 13 14 specific company and work out the discrepancy. No invoice is released for payment if outstanding 15 there are 16 discrepancies. 17 What are the total costs Tampa Electric is seeking to 18 Q. recover in this proceeding, by each storm, for foreign crew 19 20 resources? 21 Tampa Electric is seeking to recover a total cost for 22 Α. 23 foreign resources of \$70,069,939. This total cost includes costs from the five named tropical storms as follows: 24

\$614,471 from TS Erika; \$141,355 from TS Colin; \$772,736

25

from Hurricane Hermine; \$197,748 from Hurricane Matthew; and \$68,343,628 from Hurricane Irma. The foreign crew amounts Tampa Electric is seeking to recover in this proceeding, by each storm, is also detailed in my Exhibit No. SEY-1, Document No. 1.

6

7

8

9

10

11

5

1

2

3

III. TAMPA ELECTRIC'S INDIRECT T&D STORM RESTORATION

ACTIVITIES

Q. Would you describe restoration efforts performed by Tampa Electric team members that indirectly support T&D restoration?

12

13

14

15

16

17

18

19

20

21

22

23

24

25

During large storm events such as Hurricane Irma, it's an all-hands-on-deck approach and every team member of Tampa Electric has a pre-established Emergency Assignment (Storm During Role). named tropical system restoration activities, Tampa Electric utilizes the company's Electric Delivery Department team members as well as many other team members who work from various departments other than the Electric Delivery Department to support the necessary restoration activities. Depending on the projected size and path of the storm, Tampa Electric may choose to activate only portions of the company's emergency preparedness plan. These various departments include: Business Development, Business Strategy and Renewables, Community Relations,

Customer Experience, Energy Supply, Financial Accounting and Business Planning, Regulatory, Safety and TECO Services.

4

5

6

1

2

3

Q. Would you provide some examples of how each of the departments you have referred to supports restoration?

7

8

9

A. Yes, I will combine some of the departments as their activities supporting storm restoration will be similar.

10

11

12

13

14

15

16

17

18

19

20

21

22

Business Development, Business Strategy and Renewables, Community Relations, Financial Accounting and Business Planning, and Regulatory: Tampa Electric team members from these departments support a variety of storm restoration activities depending on the storm assignment of the individual team member. Some examples of these storm restoration functions include the following: leading and operating incident bases; lodging coordination; family meals coordination; laundry coordination; assistance; State, County and City Emergency Operating Center support; transportation; wire down coordination; debris clearance support; search and rescue support.

23

24

25

Customer Experience: Tampa Electric's Customer Experience
Department handles communication with customers reporting

outages and hazardous conditions. The Customer Experience Department also performs outbound calls to verify services and to provide assurance to customers that they have not been forgotten and provide updates on restoration progress. The Customer Experience Department also coordinates outbound communication such as outbound dialer or emails to update customers on restoration progress and estimates for completion. For Hurricane Irma, due to the high call volume that was projected and ultimately experienced, Tampa Electric utilized its MARS offsite support services to assist.

12

13

14

15

16

17

18

19

20

21

22

23

24

25

1

2

3

4

5

6

8

9

10

11

Energy Supply: Tampa Electric's Energy Supply Department prepares the company's generation facilities ("power plants") to minimize any potential damage to the power plants from the impending storm as well as safely and efficiently returning the power plants to normal operations following the storm. The Energy Supply Department performs a full review of the power plants' status including: communication, environmental concerns, fuel, water storage, waste handling, byproducts handling, consumables (ammonia, hydrogen, sulfuric acid, carbon dioxide), outage requirements, reliability issues and transportation issues. For Hurricane Irma, the Energy Supply Department installed the storm doors at Big Bend and Bayside Power Stations due to potential flooding and shut down Big Bend Units 1 and 2 due to the projected impacts of high winds.

3

5

6

8

9

10

11

12

13

1

2

Safety: Tampa Electric's Safety Department provides the safety onboarding briefing for all foreign crew resources. During the restoration efforts, the Safety Department provides daily storm safety messages and performs field safety observations to ensure all personnel maintain a heightened focus on being safe during this very challenging time of high workload, pressure to restore quickly and in the hot Florida climate. The Safety Department also performs accident investigations when needed and collect all first aid and recordable injury cases.

14

15

16

17

18

19

20

21

22

23

24

25

TECO Services: Services includes TECO the business functions of Corporate Communication, Facilities, Finance and Treasury, and Human Resources and Information Technology and Telecom ("IT"). Corporate Communications provides messaging on the company's website to provide updates on the restoration progress and estimates for completion. Corporate Communications also develops social media messaging, press releases and interface with media (television and radio) to ensure restoration information is reaching customers. Facilities prepares Tampa Electric's buildings to minimize any potential damage from the storm

such as installing storm screens and shutters, preparing the buildings to ride out the storm in case of certain failures such as ensuring all emergency generator fuel tanks are topped off, providing technical engineering support for the company incident bases such as installing portable generators and outdoor/indoor lighting, responding to facility repair requests during the storm such as roof and water damage repairs. In addition, Facilities team members are stationed on standby at key facilities during the storm to handle any emergencies. IT provides technical support before, during and after the storm to ensure all Tampa Electric electronic systems and communication systems and connections operate as intended to fully support restoration efforts.

15

16

17

18

19

20

21

22

1

2

3

5

6

8

9

10

11

12

13

14

Q. Please identify which of the departments have restoration costs included in the costs that Tampa Electric is seeking for recovery in this proceeding (Business Development, Business Strategy and Renewables, Community Relations, Customer Experience, Energy Supply, Financial Accounting and Business Planning, Regulatory, Safety and TECO Services).

23

24

25

A. All the departments listed indirectly supported restoration activities during at least one of the named tropical systems

identified in the company's Amended Petition, filed on January 30, 2018 and the associated costs that are appropriate for recovery in this proceeding are included.

4

5

6

8

9

10

11

12

1

2

3

Q. Please provide examples of restoration costs that would have been incurred by the following departments that are not included in the costs that Tampa Electric is seeking for recovery in this proceeding (Business Development, Business Strategy and Renewables, Community Relations, Customer Experience, Energy Supply, Financial Accounting and Business Planning, Regulatory, Safety and TECO Services).

13

14

15

16

17

18

19

20

21

22

23

24

25

Α. Tampa Electric followed the Incremental Cost and Capitalization Approach ("ICCA") which is addressed in Tampa Electric's Witness Jeffrey S. Chronister's Direct ICCA approach, Testimony. Under this Tampa Electric excluded the following restoration costs that were incurred: any payroll costs from any of these departments that is already recovered in base rates and utility call service non-incremental center and customer costs associated with the storm events. In addition, Hurricane Irma, Energy Supply had repairs at two power plants that were charged to capital and not to the storm reserve. These included replacements of a circulating water pump, a GSU fire protection system, several low voltage breakers due to water intrusion, and a 13kV/480V transformer. Also, all of these departments annually review, train and perform mock exercises. The costs associated with this annual training are not included in the costs for which Tampa Electric is seeking recovery.

Q. Did Tampa Electric need to bring in any additional personnel to support these indirect restoration activities for any of the five named tropical storms?

A. Yes, Tampa Electric utilized its MARS to provide call center assistance during and following Hurricane Irma. MARS provided an additional 112 call center resources during the storm and had a peak level of 137 additional resources following the storm to support restoration activities.

Q. Please provide the costs from these non-T&D departments that are included in the costs that Tampa Electric is seeking for recovery in this proceeding for each of the five named tropical storms.

A. Tampa Electric is seeking to recover a total of \$4,223,741 prudently incurred storm costs. This total cost includes costs from non-T&D storm support activities for the five

named tropical storms as follows: \$3,538 from TS Erika; \$8,301 from TS Colin; \$97,067 from Hurricane Hermine; \$11,093 from Hurricane Matthew; and \$4,103,741 from Hurricane Irma. These amounts are also detailed in my Exhibit No. SEY-1, Document No. 2.

б

Q. Were these costs incurred for indirect restoration related duties prudent and necessary for Tampa Electric's restoration?

A. Yes, they were prudent and necessary. Tampa Electric's Energy Supply Department took steps prior to the storm to protect the plants and those efforts minimized the repair needed to return the plants to normal operation. Customer Experience and Corporate Communications provided crucial messages to customers experiencing outages as well as for public safety. Facilities took steps to protect Tampa Electric facilities from the high winds, so they could be fully utilized following the storm to support the restoration and return to normal business.

Q. Does this conclude your direct testimony?

A. Yes, it does.

TAMPA ELECTRIC COMPANY DOCKET NO. 20170271-EI WITNESS: YOUNG

EXHIBIT

OF

S. BETH YOUNG

Table of Contents

DOCUMENT NO.	TITLE	PAGE
1	Tampa Electric's Recoverable Restoration Costs of Foreign Crews	25
2	Tampa Electric's Indirect Recoverable Restoration Costs by Storm and Function	26

Tampa Electric's Recoverable Restoration Costs of Foreign Crews

(In \$ Thousands)

	Total Storm					
	Restoration		Vegetation	Damage	Customer	
	Recoverable Costs	Line	Management	Assessors	Service	Other
Erika	614	537	78	0	0	0
Colin	141	126	0	14	0	1
Hermine	773	702	39	27	0	5
Matthew	198	198	0	0	0	0
Irma	68,344	59,936	5,733	1,331	735	609
Total	70,070	61,499	5,850	1,372	735	615

Note: Detail may not add to totals due to rounding

TAMPA ELECTRIC COMPANY DOCKET NO. 20170271-EI EXHIBIT NO. (SEY-1)

WITNESS: YOUNG DOCUMENT NO. 1

PAGE 1 OF 1 FILED: 05/21/2018

Tampa Electric's Indirect Recoverable Restoration Costs by Storm and Function

(In \$ Thousands)

Total Storm

	Restoration				
	Recoverable Costs	Distribution	Transmission	Other	Generation
Erika	4	4	0	0	0
Colin	∞	8	0	0	0
Hermine	26	0	0	26	0
Matthew	11	0	0	11	0
Irma	4,104	1,045	0	1,543	1,516
Total	4,224	1,057	0	1,651	1,516

Note: Detail may not add to totals due to rounding

TAMPA ELECTRIC COMPANY DOCKET NO. 20170271-EI EXHIBIT NO. ____ (SEY-1)

WITNESS: YOUNG DOCUMENT NO. 2

PAGE 1 OF 1 FILED: 05/21/2018