BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION DOCKET NO. 130040-EI

IN RE: TAMPA ELECTRIC COMPANY'S

PETITION FOR AN INCREASE IN BASE RATES

AND MISCELLANEOUS SERVICE CHARGES



OF EDSEL L. CARLSON JR.

DUCUMENT NUMBER - DATE



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DIRECT TESTIMONY AND EXHIBIT
OF

EDSEL L. CARLSON, JR.

1		BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION
2		PREPARED DIRECT TESTIMONY
3		OF
4		EDSEL L. CARLSON, JR.
5	 	
6	Q.	Please state your name, business address, occupation and
7		employer.
8		
9	A.	My name is Edsel L. Carlson, Jr. My business address is
10		702 North Franklin Street, Tampa, Florida 33602. I am
11		the Risk Manager for Tampa Electric Company ("Tampa
12		Electric" or "company").
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14	Q.	Please provide a brief outline of your educational
15		background and business experience.
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17	A.	I graduated from the University of South Florida with a
18		Bachelor of Arts degree in Criminology and from Saint Leo
19		University with a Masters of Business Administration
20		degree. I hold the Associate in Risk Management
21		designation from Insurance Institute of America and a
22		Fellow in Risk Management designation from Global Risk
23		Management Institute, Inc. I have approximately 20 years
24		of experience working in the Risk Management Department,
25		where I have held the positions of Claims Adjuster and

Risk Analyst. I have held my present position as Risk 1 Manager since 2000. 2 3 Have you previously testified before the Florida Public 4 5 Service Commission ("Commission" or "FPSC")? 6 7 A. Yes. I testified before the Commission in Docket No. 080317-EI, Petition for Rate Increase by Tampa Electric 8 Company. 9 10 What is the purpose of your direct testimony? 11 12 13 My direct testimony supports the need for Tampa Electric's annual storm damage accrual and an increase in 14 the target amount for its storm damage reserve. 15 16 Have you prepared an exhibit to support your direct Q. 17 testimony? 18 19 Yes, Exhibit No. (ELC-1) entitled "Exhibit of Edsel 20 L. Carlson, Jr." was prepared under my direction and 21 supervision. It consists of one document, "List Of 22 Minimum Filing Requirement Schedules Sponsored Or Co-23

Sponsored By Edsel L. Carlson, Jr.".

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Q. Please summarize Tampa Electric's proposed annual accrual and target amount for its storm damage reserve.

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Tampa Electric's history and experience, Based upon in its asset values and the results increases study conducted by Tampa detailed storm witness Steven P. Harris of EQECAT, an affiliated company of ABS Consulting, both of which are subsidiaries of the ABS Group of Companies, Inc. ("EQECAT"), Tampa Electric requests that it be allowed to maintain the current \$8 million annual accrual and increase the target reserve amount from \$64 million to \$100 million. The proposed accrual is designed to manage the cost of damage to Tampa Electric's uninsured transmission distribution and ("T&D") assets and property deductibles associated with damage to insured assets such as substations generating facilities. This conclusion was based on fundamental objectives that were considered three essential by Tampa Electric as it evaluated its needs for a storm damage reserve: 1) achieve an effective balance of rate stability and long-term cost for customers; 2) build a reserve sufficient to cover the majority of loss events in order to mitigate the need for a surcharge to customers immediately after such an event; and 3) design a reserve to cover the higher probability events and not

the low probability high severity events.

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Q. Please describe the history of Tampa Electric's existing storm reserve.

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Prior to Hurricane Andrew in 1992, Tampa Electric was Α. able to purchase commercial insurance coverage for its T&D facilities. Shortly after Hurricane Andrew, this unavailable, leaving insurance became utilities crucial Florida with assets that were uninsurable. Florida's investor-owned utilities ("IOUs") approached Commission with the а proposal to establish self-insurance program by creating a reserve for each utility to provide for uninsured property losses.

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1994. limited proceeding was held in early Ιn No. PSC-94-0337-FOF-EI, Commission Order **FPSC** Tampa Electric a \$4 million annual authorized storm damage accrual and required the submittal of a damage study. Ιn Tampa Electric's 2008 base rate proceeding, Docket No. 080317-EI, the Commission increased the annual storm damage accrual to \$8 million and adjusted the target amount of the reserve to \$64 provided million and that the accrual could be readdressed if the target amount was achieved, which has not occurred as I later describe in my testimony.

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Q. What is Tampa Electric's history of expense charges against its reserve?

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Prior to 2004, only named storms and annual expenses exceeding \$3.5 million (the amount of the insurance deductible available at the time) could be charged to the As a result, the reserve that was established reserve. in 1994 accrued \$4 million annually without any charges against the reserve until 2004. Between August 13, 2004 and September 26, 2004, Hurricanes Charley, Frances and Jeanne hit Tampa Electric's service territory causing The cost to repair the system was damage to its system. approximately \$73.4 million. At that time, the company's storm damage reserve balance was only \$42.3 million, an amount insufficient to cover the entire damage. in 2005, approved incremental Commission, storm restoration costs, which would be recovered from the 2008, Tampa Electric storm reserve. In approximately \$1.6 million against the reserve for losses associated with Tropical Storm Fay, in 2011 approximately \$1.9 million was charged for restoration costs arising from the April No Name Storm and in 2012 approximately \$1.2 million was charged for Tropical Storm Debby.

Q. Did Tampa Electric seek a surcharge to recover the damages in excess of the reserve in 2004, as did other Florida IOUs?

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Order PSC-05-0675-PAA-EI A. No. Τn No. issued June 20, 2005, the Commission approved a Stipulation and Settlement ("the Stipulation") between Tampa Electric, the Office of Public Counsel and Florida Industrial Power Users Group which avoided imposing a customer surcharge as the result of the 2004 hurricanes. The Stipulation allowed the company to charge \$34.5 million of the storm damage costs to the reserve and capitalize the remaining storm restoration costs. After this charge, the reserve had a balance of \$7.8 million.

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Q. What is Tampa Electric's current status regarding insurance and its storm reserve?

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A. Traditional commercial property insurance for T&D assets is still not available in the market today at deductible levels and prices that would make it cost effective. I recently obtained a price indication from the company's property insurance broker who indicated that for a policy with \$50 million in limits and a \$100 million deductible, the cost would be between \$6 million and \$7.5 million

annually. Clearly, this is not cost effective. Since the last base rate proceeding the company has continued to accrue \$8 million annually. As of December 31, 2012, the storm damage reserve balance is approximately \$50,209,000.

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Q. What is the overall regulatory framework considered when evaluating the storm-related accrual amount?

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service after tropical storms and hurricanes. These costs are an integral part of the cost of providing electric service in Florida, a region susceptible to tropical storms and hurricanes. It is essential that utilities realistically plan for these events and reserve sufficient funds so that surcharges are less likely to be required when storm damage occurs. Adequate accruals minimize the need for surcharges in the future.

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Commission The has recognized the need for storm restoration cost recovery and previous actions acknowledge this and established a regulatory framework cost recovery consisting of three such major components: 1) an annual storm accrual, adjusted over time as circumstances change; 2) a storm reserve adequate

to accommodate most, but not all storm years; and 3) a provision for utilities to seek recovery of costs that go beyond the storm reserve. together to allow Florida utilities, recover the full costs of storm restoration, while at the same time balancing the impact on customers. damage reserve is especially essential to utilities such Tampa Electric with a relatively as territory. Unlike Florida Power & Light and Progress Energy Florida, who have a substantially larger service territory with assets and customers spread throughout the state, Tampa Electric has a higher probability that if a storm hits the service territory, a higher percentage of customers will be affected. methodology has functioned Commission's basic approach cost-effective way to finance storm damage keeping customer impacts stabilized.

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Q. Why does Tampa Electric believe it is important mitigate the need for storm damage surcharges?

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It is important to mitigate, if not avoid altogether, imposing a storm surcharge subsequent to storms because a surcharge compounds the effects of the storm on customers at a time when they are likely to have experienced property damage from the same event. This is especially true in Tampa Electric's condensed service territory, since there is a higher probability that a higher percentage of customers will be affected by the same storm event.

Q. After three hurricanes hit Tampa Electric's service territory in 2004, was the storm damage reserve adequate to cover the actual costs for system restoration and repairs?

A. No. As I indicated above, the reserve balance at that time was \$42.3 million and the costs associated with damages were \$73.4 million. The Stipulation allowed the company to avoid a negative reserve balance and customer surcharge. It is important to note that the damage experienced in 2004 was small relative to what it could have been if any of these three storms had hit Tampa directly.

Q. Does this indicate a failure in the Commission's current regulatory framework?

A. No, quite the opposite. In general, I think it supports

the conclusion that the current regulatory framework is For the most part, the damages Tampa Electric sound. incurred in 2004 were of a nature that the reserve is designed to cover and the Commission has shown flexibility in permitting customer surcharges when companies' reserves are inadequate. The annual accruals would be adequate to cover the restoration costs associated with events other than the low probability high severity storms. However, the increase in asset balances that I later describe, as well as the expected impacts from a Category 1 or 2 storm, support company's recommendation that the target reserve level should be adjusted.

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The Commission recognized the need to periodically levels reexamine accrual and reserve in Order PSC-07-0444-FOF-EI issued in May 2007, and the Commission required IOUs to conduct a new storm damage study every Tampa Electric, in this proceeding, five years. supplying the FPSC with its most recent study completed in 2013. Witness Harris, who conducted the study for EQECAT, details the results of this study in his direct testimony.

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Q. Why was EQECAT selected to conduct the storm damage

study?

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Electric selected EQECAT of Tampa because their experience and qualifications. They have been conducting storm loss analyses in Florida since 1993, not only for Tampa Electric but also for Florida Power & Progress Energy Florida and Gulf Power Company. EOECAT uses an advanced computer model simulation program, $USWIND^{TM}$, which is one of only four models evaluated and determined acceptable by the Commission on Hurricane Loss Projection Methodology for projecting hurricane Witness Harris has over 30 years of experience in costs. conducting various risk assessments for utilities throughout the United States, the Caribbean and Europe.

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Q. What direction was provided by Tampa Electric to EQECAT in the preparation of the study?

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Consistent with Order No. PSC-07-0444-FOF-EI, issued on May 23, 2007, the company directed EQECAT to perform analyses of Tampa Electric's T&D assets for both hurricane and tropical storm loss exposures. Tampa Electric asked EQECAT to conduct the analysis on near-term view of hurricane risk because there is consensus among experts that the Atlantic Basin,

includes Florida, is in a period of increased storm activity and the near-term analysis is an appropriate indicator of Tampa Electric's exposure. The company also requested that EQECAT include insured Tampa Electric property such as generating plants and substations to determine the amount of un-recovered property deductibles. Finally, Tampa Electric asked EQECAT to model and analyze the performance of the storm reserve to assist in estimating the expected annual reserve balance over a multi-year period.

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Q. What conclusions did EQECAT reach regarding the expected annual long-term cost for service restoration and repair of storm damage to Tampa Electric's assets?

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As described in the direct testimony of witness Harris, the analysis concludes that the expected average annual cost for windstorm losses in the current environment of increased storms is approximately \$21.9 million. This represents average losses per year over time. Of course, there will be years where there are no losses like 2006, 2007, 2009 and 2010, but there will also be years where losses will be higher like 2004. Over time, losses will average about \$21.9 million per year; the loss could be in excess of \$600 million as demonstrated by witness

Harris. However, the company recognizes the need to balance an adequate reserve amount with the rate impact associated with raising the storm accrual to cover high severity low probability events and is proposing that the company maintain its current reserve accrual amount of \$8 million annually.

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Q. Does the study's conclusions support a specific target reserve level?

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There is no single correct target reserve balance. No. The study does supply a table that shows the probability of loss exceeding a particular dollar amount in any given The target reserve level depends largely on vear. tolerance for risk. The company believes the reserve level should be set to cover most storm events (higher probability and lower severity events) but not all storms (low probability and high severity). higher the storm damage reserve balance level, the lower the probability that a storm will exceed the reserve and thus less likely the company would need to request a surcharge from customers at a time that they are likely suffering from the hardships associated with storm damages.

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Q. How were the proposed target reserve level and annual accrual determined?

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The total targeted amount of the reserve and the annual accrual to reach the target is a function of the total loss that could occur to the company's system as a result of storm activity and the probability of occurrences of various levels of storm activity in Tampa Electric's service area. Once EQECAT assessed these values and probabilities, professional judgment was applied determine an appropriate level for the annual accrual and target level for the reserve. In applying this judgment, the company considered the Commission's rationale and basis for its decision to increase the target reserve level and annual accrual in the last base The company also considered the current proceeding. reserve balance and the need to balance rate stability and long-term costs to customers. In addition, the company considered the increase in T&D asset value from the previous base rate proceeding. It is fair to say no one knows when storm damage will occur and the exact but it is reasonably certain that extent of damage, storms will cause damage to Tampa Electric's system in the future and the company should make reasonable plans to provide for the costs of this damage with a minimal

impact to customers after a storm occurs.

Q. How were the results of the EQECAT study used to determine the requested annual accrual and targeted total reserve amounts?

A. The EQECAT study was an important tool that helped assess storm damage risk. As previously explained, the study results were one of several factors that the company considered in developing the requested annual accrual and targeted total reserve amounts. The company carefully considered the overall O&M expense profile.

The study shows the expected annual loss to be higher than the requested annual accrual and thus could support a request for a higher accrual. The study's reserve analysis shows that at the requested reserve level the expected balance at five years would be negative, but within a manageable amount.

When developing the annual accrual, the company took into account the Commission's rationale in the previous base rate proceeding, where the company's annual accrual and target amount were increased to the current levels. The previous study showed an expected annual loss amount to

be \$17.8 million and the company requested a \$20 million annual accrual. The Commission approved an increase in the accrual from \$4 million to \$8 million and increased the target from \$55 million to \$64 million. Since that decision, the reserve balance has increased from \$21.6 million to \$50.2 million. However, as previously stated this reserve balance would be insufficient to cover the costs if the company were to experience a year like 2004 again.

Based on the proposal in this case, the result will likely be that the reserve will not grow as large as the proposed new target but should be adequate to maintain the reserve at a manageable level as long as the company continues to have favorable loss experience. Given Tampa Electric's desire to manage its cost profile and its ability to seek recovery of storm damage costs that may exceed the reserve, the current \$8 million annual accrual is appropriate.

In establishing the target reserve amount the company took into account the increase in asset value from the previous study of \$3.4 billion to \$4.1 billion. The company also considered the Hurricane Landfall Analyses in the EQECAT Study, which shows that a \$100 million

reserve will cover the majority of the Category 1 and Category 2 storms. Tampa Electric's target amount should be increased to \$100 million to cover the higher frequency lower severity storms events such as Category 1 and Category 2 storms. This target reserve level should adequately protect customers from the chance of rate increases after a storm event.

Q. How can the company ensure that the requested annual accrual continues to be appropriate over time?

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A. Based on the current study and associated probabilities, there is a 32 percent probability that a reserve based on an \$8 million annual accrual will be depleted by the end of five years. To ensure the reserve accrual and target are still reasonable, the company will submit an updated study for Commission review within five years as required.

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Q. How does the proposed reserve compare to insurance premiums?

A. The study conducted by EQECAT that was used to establish a proposed reserve is similar to studies insurers use as a foundation to develop premium charges. The expected

annual loss amount is the starting point an insurer uses to calculate an annual premium. Thus, in determining an accrual amount, Tampa Electric's approach is similar to that used by an insurance company to determine This is appropriate, considering that the a premium. reason the storm damage reserve and accrual exist is that insurance is not available at cost effective pricing for The advantage of the reserve is that the annual accrual, in a year where no losses occur, will remain in the reserve, in contrast to insurance where, even if there are no losses, the insurer retains the premiums paid. The obvious advantage of insurance is that if you have a large loss event, the insurance policy will pay the loss up to the limits of the policy with usually no other obligation on the insured's part. contrast, a reserve may be insufficient to absorb the loss, particularly if it occurs before the reserve has a chance to accumulate. The practical reality, however, is that insurance is not available at cost-effective pricing for T&D assets in wind-exposed locations like Florida.

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Q. What is the status of Tampa Electric's efforts to obtain commercial T&D Insurance?

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A. The property insurance markets for T&D insurance coverage

remain very restrictive, especially for Gulf and Atlantic locations. Ιn the last several vears, Electric has requested a price indication from its broker for property insurance commercial property insurance to cover its T&D facilities from storm related Based on discussions with the broker, property damage. insurance for the company's T&D facilities at reasonable costs and deductible levels continues to be unavailable.

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Q. Does the company have property insurance on other portions of its property?

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A. Yes, Tampa Electric has property insurance on all of its assets with the exception of its T&D assets. The company has included its non-recovered windstorm deductible losses for substation and generating assets as a part of its proposed \$8 million annual accrual.

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Q. Please summarize your direct testimony.

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A. Following Hurricane Andrew, property insurance coverage for T&D assets became unavailable in Florida. To provide for uninsured storm losses, Tampa Electric accrued annually to a reserve \$4 million from 1994 to 2008 and \$8 million from 2008 to present. Tampa Electric's annual

storm damage accrual should remain at \$8 million in order to build its storm damage reserve to a level sufficient to provide for most, but not all, storms and the target reserve balance should be increased to \$100 million. While the EQECAT study supports a larger accrual, the company acknowledges the need to balance rate stability and long-term costs to customers and therefor a larger accrual has not been requested.

Q. Does this conclude your direct testimony?

A. Yes, it does.

TAMPA ELECTRIC COMPANY DOCKET NO. 130040-EI WITNESS: CARLSON

EXHIBIT

OF

EDSEL L. CARLSON, JR.

TAMPA ELECTRIC COMPANY
DOCKET NO. 130040-EI
WITNESS: CARLSON

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TAMPA ELECTRIC COMPANY
DOCKET NO. 130040-EI
EXHIBIT NO. (ELC-1)
WITNESS: CARLSON
DOCUMENT NO. 1
PAGE 1 OF 1

FILED: 04/5/2013

LIST OF MINIMUM FILING REQUIREMENT SCHEDULES SPONSORED OR CO-SPONSORED BY EDSEL L. CARLSON, JR.

MFR Schedule	Title
B-21	Accumulated Provision Accounts - 228.1, 228.2
	and 228.4