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APPLICATION OF CENTERPOINT § BEFORE THE STATE OFFICE  
ENERGY HOUSTON ELECTRIC, LLC § OF  
FOR AUTHORITY TO CHANGE RATES § ADMINISTRATIVE HEARINGS

May 20, 2019

Contact: Denise Hardcastle  
CenterPoint Energy Houston Electric, LLC  
1111 Louisiana Street  
Houston, Texas 77002  
Tel No: (713) 207-5767  
Fax: (713) 207-9840  
Denise.Hardcastle@CenterPointEnergy.com

TABLE OF CONTENTS

<u>Description</u>	<u>Page</u>
CenterPoint Energy Houston Electric, LLC's Errata 1 Filing to the Direct Testimony of:	
Kristie L. Colvin .....	2-8
Shachella D. James .....	9-10
M. Shane Kimzey.....	11-12
Robert B. McRae .....	13-14
Julienne P. Sugarek.....	15-17
Matthew A. Troxle.....	18-22
Dane A. Watson .....	23-30
Certificate of Service .....	31

1 264

**Errata 1 to  
Direct Testimony of Kristie L. Colvin**

1   **Q.    HOW WILL THE COMPANY RECORD POST TEST YEAR BAD DEBT**  
2       **RELATED TO REP DEFAULTS?**

3    A.    The Company will continue to record REP defaults net of collateral in a regulatory  
4       asset for recovery in a future rate proceeding.

5               **4.    Affiliate and Direct Wages**

6   **Q.    PLEASE DESCRIBE THE ADJUSTMENT TO AFFILIATE WAGES FOR**  
7       **THE TEST YEAR.**

8    A.    The Company is proposing to adjust salary and short-term incentive (“STI”) pay  
9       for affiliate billings to the Company similar to the adjustment discussed below for  
10       direct labor. This calculation is discussed in detail in the direct testimony of  
11       Company witness Michelle M. Townsend. The Affiliate Wage adjustment is an  
12       increase of \$1.4 million to test year O&M and is functionalized following the  
13       original affiliate payroll billings in the test year.<sup>9</sup>

14   **Q.    PLEASE DESCRIBE THE ADJUSTMENTS TO DIRECT SALARIES AND**  
15       **WAGES FOR THE TEST YEAR.**

16   A.    The Company’s test year level of salaries and wages consists of base pay, a  
17       competitive pay adjustment, and incentive compensation in the form of STI and  
18       long-term incentive (“LTI”) pay. The test year level of salaries and wages is not  
19       representative of labor costs that are expected to exist when new rates will become  
20       effective. The Company has adjusted its test year direct labor expenses to annualize  
21       calendar year-end salaries and include a three percent increase to the cost of service  
22       for the competitive pay adjustment (“CPA”) that will be effective on April 1, 2019,

^ March 20, 2019 and

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<sup>9</sup> See WP/II-D-1 Adj 4 for the Affiliate Wages adjustment.

1     **Q.     HAS THE COMPANY ADJUSTED ITS EMPLOYEE BENEFIT EXPENSE?**

2     A.     Yes. The Company is proposing to update its test-year expenses for pension and  
3           other post-employment benefit ("OPEB") expense to reflect actual annual expenses  
4           as determined by the 2019 actuarial studies included as attachments to  
5           Schedule II-D-3.8.1. This Benefits adjustment results in a decrease of \$8.3 million  
6           in pension and OPEB expense for the test year and has been functionalized to  
7           payroll.<sup>30</sup> The Company also included an adjustment to benefit expense of  
8           \$0.2 million resulting from the salaries and wages and STI adjustments discussed  
9           previously in my testimony.<sup>31</sup>

10                   **6.     Non-recoverable Costs**

11    **Q.     PLEASE DESCRIBE THE ADJUSTMENT TO A&G TEST YEAR COSTS**  
12    **FOR NON-RECOVERABLE COSTS.**

13    A.     The adjustment for non-recoverable costs removes \$0.2 million in costs that are not  
14           recoverable through rates under 16 TAC § 25.231(b)(2).<sup>32</sup>

15                   **7.     Employee Expenses**

16    **Q.     PLEASE DESCRIBE THE EMPLOYEE EXPENSES ADJUSTMENT IN**  
17    **A&G FOR THE TEST YEAR.**

18    A.     The Company is making an adjustment to remove certain employee-related travel,  
19           meals, and lodging costs and other employee expenses that are not being requested  
20           for recovery. Employee expenses were reviewed and analyzed in accordance with  
21           16 TAC § 25.231(b)(1) for allowable expenses and subsection (b)(2) for

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<sup>30</sup> See WP/II-D-2 Adj 6 for the Benefits adjustment.

<sup>31</sup> See Section III.A.4, Affiliate and Direct Wages.

<sup>32</sup> See WP/II-D-2 Adj 7 for the Non-Recoverable adjustment.

1   **Q.   HAVE ANY ADJUSTMENTS BEEN MADE TO TEST YEAR**  
2       **DEPRECIATION EXPENSE?**

3   A.   Yes. Depreciation related to test year AMS plant in service has been removed  
4       because costs for those assets are recovered under a separate tariff.<sup>48</sup> An adjustment  
5       has also been made to remove depreciation for certain Non-Utility Property not  
6       included in rate base.<sup>49</sup> An adjustment has also been made to reclass depreciation  
7       between asset classes.<sup>50</sup> Company witness Dane A. Watson supports other required  
8       adjustments to the Company's depreciation expense calculation based on the  
9       depreciation study he sponsors.<sup>51</sup>

10   **Q.   IS THE COMPANY PRESENTING A NEW DEPRECIATION STUDY**  
11       **WITH THIS FILING?**

12   A.   Yes. The Company's last depreciation study was prepared for and approved in  
13       Docket No. 38339, approximately 10 years ago.

14   **Q.   WHY ARE ADJUSTMENTS BEING MADE TO TEST YEAR**  
15       **DEPRECIATION EXPENSE AS A RESULT OF MR. WATSON'S**  
16       **DEPRECIATION STUDY?**

17   A.   Mr. Watson explains in his direct testimony the rationale for the proposed changes  
18       in depreciation rates and salvage values that should be implemented as a result of  
19       this case. The proposed depreciation rates are then applied to the adjusted gross  
20       plant balance at December 31, 2018, to arrive at the annual depreciation rates  
21       applicable to existing assets.

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<sup>48</sup> See WP/II-E-1 Adj 3 for the AMS adjustment. and AMS Table tab.

<sup>49</sup> See WP/II-E-1 Adj 6 for the Non-Utility Property adjustment.

<sup>50</sup> See WP/II-E-1 Adj 7 for the Reclass adjustment.

<sup>51</sup> See WP/II-E-1 Adj 1 for the Depreciation Study adjustment.

3     A.     Following the precedent set in Docket No. 32093 for Hurricane Rita restoration  
4           costs, Hurricane Harvey restoration costs have been capitalized or deferred in a  
5           regulatory asset to be recovered in this base rate proceeding.

8     A.     Yes. The Company received \$23.6 million, consisting of \$12.3 million for capital  
9           and \$11.3 million for O&M, in insurance proceeds for damage done to its system  
10          by Hurricane Harvey. The insurance proceeds the Company received have been  
11          recorded to the applicable regulatory asset and capital assets. The Company has  
12          settled all electric restoration insurance claims related to Hurricane Harvey and  
13          does not expect to receive additional insurance settlements.

16     A.     The regulatory asset balance related to Hurricane Harvey restoration cost as of  
17     December 31, 2018, was \$64.4 million, which includes O&M costs, net of actual

19 Q. IS THE COMPANY PROPOSING RECOVERY OF AND A RETURN ON  
20 COSTS NET OF INSURANCE RECOVERY ASSOCIATED WITH  
21 HURRICANE HARVEY IN THIS CASE?

6

1 year-end customer deposit balances included in rate base are shown on Schedule  
2 II-B-11.

3 **Q. HOW HAVE CUSTOMER DEPOSITS BEEN FUNCTIONALIZED?**

4 A. Customer deposits have been directly assigned as shown on Schedule II-B-11.

5 **M. Regulatory Assets and Liabilities**

6 **Q. PLEASE DESCRIBE THE COMPANY'S REGULATORY ASSETS AND**  
7 **LIABILITIES INCLUDED IN RATE BASE.**

8 A. ASC 980, *Regulated Operations*, allows utilities with cost-based rates established  
9 by a regulator to defer or capitalize certain costs or obligations for future  
10 ratemaking treatment. The regulatory assets and liabilities requested as part of the  
11 adjusted test year rate base balance are related to costs for bad debt, Hurricane  
12 Harvey, expedited switching, SMT, TMT, protected EDIT, Medicare Part D  
13 Subsidy, ~~Benefit Restoration Plan liability~~ and the pension deferral liability.<sup>131</sup>  
14 With the exception of the protected EDIT and Benefit Restoration Plan liability,  
15 these items are described in detail above in my testimony.

16 **Q. WHY IS IT APPROPRIATE TO INCLUDE PROTECTED EDIT IN RATE**  
17 **BASE?**

18 A. As discussed in Mr. Pringle's direct testimony, protected EDIT was derived from  
19 ADFIT that was previously funded by customers. Therefore, the regulatory liability  
20 for protected EDIT should be included in rate base.

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<sup>131</sup> See WP/II-B-11 Adj 8 Pension BRP & Postretirement Adjustment, WP/II-B-11 Adj 9 Interest Rate Hedge Reclass, WP/II-B-12 Adj 10 Interest Rate Hedge Rate Base Removal, WP/II-B-12 Adj 2 Hurricane Harvey, WP/II-B-12 Adj 8 Interest Rate Hedges, WP/II-B-12 Adj 9 Interest Rate Hedge Removal, and WP/II-B-12 Adj 10 Margin Tax Adjustment.



1 unprotected may change. Due to the potential for significant changes to the UEDIT  
2 net liability, the Company is proposing to track the balance and record an over- or  
3 under-balance of amounts collected under the Rider UEDIT compared to the actual  
4 net UEDIT liability amount and to address this balance in the next base rate  
5 proceeding.

6 **Q. HOW HAS THE COMPANY FUNCTIONALIZED UEDIT?**

7 A. UEDIT functionalization ~~directly follows the associated tax item.~~

8 **P. Rate of Return**

^is allocated following the rate model total cost of service amount for all customers. Please see Mr. Troxle's testimony Bates page 3038 for further discussions.

9 **Q. WHAT COST OF EQUITY DID THE COMPANY USE TO CALCULATE**  
10 **THE RATE OF RETURN COMPONENT OF THE REVENUE**  
11 **REQUIREMENT?**

12 A. Relying on Mr. Hevert's testimony and recommendations for the cost of equity, the  
13 resulting overall required rate of return is 7.39%. The required rate of return is  
14 applied to the adjusted rate base to derive the Company's rate of return component  
15 of the revenue requirement. This calculation is shown on Schedule II-C-2.1 and  
16 Exhibit KLC-10.

17 **Q. WHAT IS THE COMPANY'S COST OF DEBT?**

18 A. The Company's proposed cost of debt, as a weighted average of all outstanding  
19 debt issuances, is 4.38% as explained by Mr. McRae. The calculation is shown on  
20 Schedule II-C-2.4a.

**Errata 1 to**  
**Direct Testimony of Shachella D. James**

1

Figure 4. Cost Assignment of TO Services

Service	Direct Assignment Calculation
Desktop Data Device	This service is directly assigned to clients based upon the number of login IDs for a given client area. The number of login IDs is identified within CNP's Active Directory structure for Local Area Network Access.
Mainframe CPU Utilization	This service is directly assigned to clients based on the number of CPU seconds used. Snapshots of CPU usage are taken on a daily basis to capture mainframe usage by department billing point, totaled on a monthly basis, and billed to the appropriate business unit.
Data Management	This service is directly assigned to clients based upon the number of megabytes managed by each client. A snapshot of disk allocations is captured monthly and is matched to the cost centers in SAP to determine the owner of the storage.
Distributed Systems	Personnel, hardware and software charges for this service are specific to individual business units based on the client's specific use of the applications, platforms, and software, and are directly assigned to those business units.
Enterprise Applications Development and Support	The costs of this service are directly assigned based upon the business unit's headcount <del>(67% weighting)</del> and operating expenses <del>(33% weighting)</del> . <b>67%</b> <b>33%</b>
Applications Development and Support	The costs of this service are directly assigned to each client utilizing the service. The charges are based upon billable hours of actual work effort required to support ongoing baseline operations activity and new projects solicited by clients to provide business solutions.
Telephony Service	Each telephone instrument, fax machine, or modem requires a dedicated port on the Private Branch Exchange ("PBX") switch. The total cost for this service is divided by the total number of end users supported by the PBX to determine the rate and multiplied by the number of end users to determine the directly assigned cost.  While TO works with Purchasing & Logistics to structure CNP's long distance contract, the costs are invoiced directly to the CenterPoint Houston cost centers based on the minutes of actual long-distance usage reflected in the vendor invoice for those individuals in CenterPoint Houston.
Telecommunications Move/Add/Change	Charges are directly assigned and based upon billable hours.
Data and Cyber Security Management	This service is allocated to all business units based on total TO O&M spend.

Errata to

Direct Testimony of Shachella D. James  
CenterPoint Energy Houston Electric, LLC

**Errata 1 to**  
**Direct Testimony of M. Shane Kimzey**

1           **Corporate Securities, Transactions and Governance.** The lawyers and  
2 others on this team are responsible for (i) maintaining compliance with securities  
3 laws and regulations, including periodic filings with the Securities & Exchange  
4 Commission; (ii) representing the Company in corporate transactions such as  
5 mergers, acquisitions and financings; (iii) overseeing matters of corporate  
6 governance; (iv) maintaining accurate records relating to the legal entities in the  
7 CNP group of companies; (v) insider trading training and awareness; and  
8 (vi) advising on benefits plans and various other matters.

9           **Litigation, Environmental, Land & Right of Way.** The lawyers on this  
10 team are responsible for managing litigation and other disputes that CNP and its  
11 subsidiaries become involved in, as well as supporting CenterPoint Houston's and  
12 other entities' Land and Right of ~~Work~~, such as procuring easements and other  
13 such rights and working with landowners, and providing legal advice on various  
14 environmental matters, including litigation and regulatory proceedings.

15           **Commercial.** The Commercial Legal team of CNP's Legal Department  
16 is responsible for the legal aspects of the Company's commercial contracting  
17 process. Our commercial team (i) drafts, reviews, and negotiates contracts with  
18 customers and vendors; and (ii) provides guidance on commercial and contracting  
19 risks and issues more generally. This team is also responsible for the Company's  
20 intellectual property work.

21           **Corporate Ethics and Compliance.** Collectively, this team is  
22 responsible for (i) overseeing, supporting, and educating the organization on  
23 ethics and compliance with laws and regulations, and investigating and

**Errata 1 to**  
**Direct Testimony of Robert B. McRae**

1    **Q.    DOES THE THREAT OF COSTLY HURRICANES SUPPORT A HIGHER**  
2           **DEGREE OF EQUITY IN CENTERPOINT HOUSTON'S CAPITAL**  
3           **STRUCTURE WHEN SETTING RATES?**

4    A.    Yes. The threat of costly hurricanes is certainly one factor that would justify a  
5           higher equity level. A higher equity percentage would better enable CenterPoint  
6           Houston to access the debt markets in order to rebuild should the need arise after a  
7           catastrophic event.

8    **Q.    TEXAS LAW ALLOWS UTILITIES THAT SUFFER HURRICANE**  
9           **DAMAGE TO RECOVER STORM RESTORATION COSTS AND TO**  
10          **OBTAIN SECURITIZATION FINANCING FOR THOSE COSTS.<sup>19</sup> DOES**  
11          **THAT COMPLETELY MITIGATE THE RISK OF HURRICANE**  
12          **DAMAGE FOR CENTERPOINT HOUSTON?**

13   A.    No. The ability to recover and securitize storm restoration costs is helpful, but it  
14           does not completely mitigate the risk to CenterPoint Houston because of the time  
15           lag inherent in obtaining the approvals required for securitization financing and in  
16           issuing the securitization bonds, and because securitization is limited to losses of at  
17           least \$100 million.

18   **Q.    HOW MUCH TIME IS EXPECTED TO ELAPSE BETWEEN THE DATE A**  
19          **HURRICANE STRIKES CENTERPOINT HOUSTON'S SERVICE**  
20          **TERRITORY AND THE DATE THAT THE SYSTEM RESTORATION**  
21          **BONDS CAN BE ISSUED?**

22   A.    Assuming that CenterPoint Houston can obtain the two orders from the

**39.301-39.306**

<sup>19</sup> Tex. Util. Code §§ ~~39.401-39.406~~.

**Errata 1 to**  
**Direct Testimony of Julianne P. Sugarek**



1 developers, and other groups requesting the installation of street lighting. Lighting  
2 Services provides for the installation, ownership, O&M of the necessary  
3 ornamental standard (if any) and fixtures, including the replacement of lamps. The  
4 majority of the cost for providing this service relates directly to CenterPoint  
5 Houston's capital investment, and O&M of the specific fixture and ornamental  
6 standard (if any). The Tariff contains the provisions governing the terms of service  
7 and the type of service, the Monthly Rate consisting of Transmission and  
8 Distribution Charge per lamp type (i.e., mercury vapor, high pressure sodium  
9 vapor, metal halide, or light emitting diode), and references to applicable service  
10 riders.

11 **Q. WHAT CHANGES IS CENTERPOINT HOUSTON PROPOSING TO ITS**  
12 **LIGHTING SERVICES TARIFF?**

13 A. The Company proposes to establish Light Emitting Diode ("LED") Luminaires as  
14 the new street light standard lamp type for Street Lighting Services and  
15 Miscellaneous Lighting Services under Lighting Services section 6.1.1.1.6 of the  
16 Tariff. Recent advances in LED technology and declining LED prices have resulted  
17 in LED for street lighting as an attractive alternative to existing street lighting  
18 options due to the potential customer and energy savings that could be achieved  
19 with more efficient light technology. CenterPoint Houston ~~will continue~~ **proposes** to install  
20 LED lighting in place of the other non-LED lamp types under its normal  
21 replacement cycle (i.e., as lights fail and reach the end of their useful lives).  
22 ~~Consequently, installation of a non-LED lamp type (e.g., metal halide, high~~  
23 ~~pressure sodium) will be only in circumstances where LED lighting lamp~~

1 ~~installation is not possible or cost effective.~~ Please see the direct testimony of Mr.  
2 Troxle for the tariff language proposed by the Company.

3 **IX. CONCLUSION**

4 **Q. PLEASE SUMMARIZE YOUR TESTIMONY.**

5 A. For the test year, the Power Delivery Solutions division O&M expenditures were  
6 \$8.8 million. The O&M expenditures incurred by the Power Delivery Solutions  
7 division during the test year are reasonable and necessary expenses that should be  
8 recovered in the Company's rates. My testimony demonstrates that the Power  
9 Delivery Solutions division is properly structured to accomplish the goal of  
10 providing a reliable power delivery system at a reasonable cost. Costs associated  
11 with this organization are effectively managed and maintained at reasonable levels  
12 through the entire process of business planning, budget plan review and ongoing  
13 budget plan monitoring. These costs are reasonable, prudent and necessary.  
14 Moreover, the activities performed by the Power Delivery Solutions division are a  
15 reasonable and necessary part of providing electric utility service. Finally, the  
16 Company requests approval of its proposals related to voltage regulation batteries,  
17 DER interconnections, facilities extensions for EV charging stations, and street  
18 lighting services.

19 **Q. DOES THIS CONCLUDE YOUR TESTIMONY?**

20 A. Yes, it does.

**Errata 1 to**  
**Direct Testimony of Matthew A. Troxle**

1                   **EXECUTIVE SUMMARY OF MATTHEW A. TROXLE**

2           My testimony addresses four areas: (1) the twelve-month period ending  
3   December 31, 2018 Test Year ("Test Year") billing determinants used to design the  
4   proposed retail delivery service rates; (2) the allocation of costs among the rate classes;  
5   (3) the development of CenterPoint Energy Houston Electric, LLC's ("CenterPoint  
6   Houston" or the "Company") proposed retail and wholesale ~~delivery~~ <sup>transmission</sup> service tariff rate  
7   schedules, riders and various charges; and (4) other proposed changes to the Company's  
8   retail delivery service tariffs. Specifically, my testimony:

- 9       • explains the reasonable and necessary adjustments to the Test Year billing  
10      determinants that are necessary to make the Test Year billing and usage data more  
11      representative of conditions that are expected to exist once new rates go into effect;
- 12      • describes the two class cost of service studies used to allocate costs among the rate  
13      classes in accordance with the Federal Energy Regulatory Commission System of  
14      Accounts, the Public Utility Regulatory Act, the Public Utility Commission of  
15      Texas' rules and rate filing package instructions, and the principles of cost  
16      causation; <sup>transmission</sup>
- 17      • explains, for both the retail delivery service tariff and the wholesale ~~delivery~~ <sup>transmission</sup> service  
18      tariff, how each rate schedule applies and how each delivery charge is calculated,  
19      and also demonstrates that these rate schedules and riders accurately recover the  
20      cost of service as described and supported in the rate filing package;
- 21      • introduces a new rider, Rider UEDIT – Unprotected Excess Deferred Income Tax,  
22      that refunds to customers the balance of unprotected excess deferred income taxes  
23      resulting from the Tax Cuts and Jobs Act of 2017 that changed the federal income  
24      tax rate in 2018;
- 25      • describes the Company's proposed additional charges and discretionary service  
26      charges and the methodology used to determine the present cost of providing these  
27      services; and
- 28      • summarizes other proposed changes to the Company's retail tariff.

1 WP - Acct. 366, WP - Acct. 367, and WP - Acct. 368 demonstrate how the  
2 Company proposes to allocate distribution costs in this proceeding.

3 **Q. WHAT IS THE FINAL STEP IN PREPARING THE CCOSS?**

4 A. The final step in preparing the CCOSS is applying the allocators derived in the  
5 previous step, as shown in the II-I-2 Schedules, to all of the FERC Account costs,  
6 expenses, and other revenues.

7 **B. Demand-related Allocation Methodology**

8 **1. Transmission Cost**

9 **Q. PLEASE DESCRIBE THE METHOD USED TO ALLOCATE CAPACITY-  
10 RELATED TRANSMISSION COST.**

11 A. CenterPoint Houston proposes to use the unadjusted 4CP allocation factor based on  
12 the ~~BRCOT~~<sup>CEHE</sup> peak summer month periods to allocate capacity-related transmission  
13 costs. ~~This matches the use of the 4CP allocator the Commission uses for pricing~~  
14 ~~wholesale transmission charges pursuant to PURA § 35.004(d) and is consistent~~  
15 ~~with Commission rules and the Company's approved approach in Docket~~  
16 ~~No. 38339.~~

17 **2. Distribution Cost**

18 **Q. PLEASE DESCRIBE THE METHOD USED TO ALLOCATE DEMAND-  
19 RELATED DISTRIBUTION COST.**

20 A. The methodology used for the demand-related distribution cost is based on the  
21 unadjusted average 4CP test year demand for electric power on CenterPoint  
22 Houston's distribution system at the time of BRCOT's peak summer month periods.  
23 This demand data is shown on Schedule II-H-1.3, sponsored by Dr. McMenamin.  
24 Furthermore, the allocation factors are determined at two points of service on the

Direct Testimony of Matthew A. Troxle  
CenterPoint Energy Houston Electric, LLC

1 distribution system: the substation and the overhead distribution lines. Since some  
2 customers are served exclusively on the underground ("UG") line distribution  
3 system and do not use the overhead line facilities, having the allocation factors  
4 determined at the substation and the overhead distribution line level allows certain  
5 costs of the UG line facilities to be allocated exclusively to those classes which  
6 have customers served from those facilities.

7 **Q. WHY HAVE YOU ELECTED TO USE THE 4CP DEMAND**  
8 **METHODOLOGY FOR DEMAND-RELATED DISTRIBUTION COST?**

9 A. The Company's distribution system is designed to serve the maximum load  
10 requirement of each individual retail customer at the same time. The Company's  
11 distribution system is strategically constructed to have the capability to reliably  
12 deliver the maximum load when demanded by the customer. CenterPoint  
13 Houston's customers' demand peaks are generally during the summer months of  
14 June, July, August, and September. All cost driven by system peak loads have been  
15 allocated to the classes based upon their contribution to the summer peak loads.  
16 The 4CP component of the Company's proposed allocator accomplishes this goal  
17 by isolating class contributions to system peak load during those four months. ~~The~~  
18 ~~Company uses this 4CP component to allocate cost on the basis of class energy~~  
19 ~~requirements (the average demand) and class contributions to system peak demand~~  
20 ~~(the excess demand).~~ A 4CP demand allocation method captures the cost causation  
21 associated with the maximum coincident load of each rate class on the Company's  
22 distribution system.

1 Equal to 10 kVA rate schedules, both the Transmission and Distribution Delivery  
2 Charges are recovered on a per kWh basis. For the Secondary Service Greater Than  
3 10 kVA rate schedule, the Distribution Delivery Charge will be based on Billing  
4 Demand, using NCP kVA. With respect to the Primary Service rate schedule,  
5 Distribution Delivery Charges will be based on the Billing kVA, which is defined  
6 as NCP kVA billing demand with an 80% ratchet. Seasonal agriculture customers  
7 are exempted from the distribution ratchet. For Transmission Service, the  
8 Distribution Delivery Charges will be based upon 4CP kVA. For the Secondary  
9 Service Greater Than 10 kVA and the Primary Service rate schedules, the  
10 Transmission Charge billing determinant depends upon the type of meter attributed  
11 to the customer. For those customers classified as having an IDR meter, the charges  
12 for retail transmission service are billed using the customer's 4CP kVA demand at  
13 the date and time coincident with the ~~ERCOT~~ <sup>CPHE</sup> 4CP. For customers classified as  
14 having a non-IDR meter, the Transmission Charge billing determinants are based  
15 on the customer's monthly maximum NCP kVA demand. For the Transmission  
16 Service rate schedule, the Transmission Charge billing determinants will be 4CP  
17 kVA.

18 Unlike most service under the other rate classes, Lighting Services are  
19 unmetered and do not have a Customer Charge or Metering Charge. The  
20 distribution and transmission charges for Lighting Services are stated on a per-  
21 fixture basis, based on the type of lamp and its configuration.

**Errata 1 to**  
**Direct Testimony of Dane A. Watson**



Errata 1

Figure 1

Account	Description	Approved Life	Approved Curve	Proposed Life	Proposed Curve
E30302	Intangible Plant 5 year	5	SQ	5	SQ
E30302	Intangible Plant 7 year	7	SQ	7	SQ
E30302	Intangible Plant 10 year	10	SQ	10	SQ
E30302	Intangible Plant 15 year	NA	NA	15	SQ
E35002	Land Rights	75	R1	75	R1
E35201	Structures & Improvements	60	R4	60	R1.5
E35301	Station Equipment	47	R1	53	R0.5
E35401	Towers & Fixtures	60	R4	59	R2.5
E35501	Poles and Fixtures	40	R0.5	60	R0.5
E35601	O/H Conduct/Devices	50	R2	61	R1.5
E35701	Underground Conduit	60	R5	60	R5
E35801	U/G Conduct/Devices	40	R5	44	S6
E35901	Roads and Trails	58	S6	52	S6
E36002	Land Rights	55	R1	60	R1
E36101	Structures. & Improvements	56	R4	60	R4
E36201	Station Equipment	47	R1.5	48	R1
E36301	Battery Storage Equipment	NA	NA	10	SQ
E36401	Poles, Towers & Fixtures	35	R0.5	35	R0.5
E36501	O/H Conduct Devices	40	R0.5	38	R0.5
E36601	Underground Conduit	37	S6	62	R2.5
E36701	U/G Conduct/Devices	31	R0.5	38	R0.5
E36801	Line Transformers	28	R1	28	R1
E36901	Services	36	R0.5	46	R0.5
E37001	Meters	27	R2	21	R3
E37001	AMS Meters	7	SQ	20	R2
E37301	Street Light/Signal Systems	36	R1	39	R1
E37401	Security Lighting	36	R1	39	R1
E38902	Land Rights	50	R2	55	R2
E39001	Structures & Improvements	40	R2	50	R4
E39101	Office F/F	24	SQ	24	SQ
E39201	Transportation Equipment	12	R1.5	13	L2
E39301	Stores Equipment	19	SQ	19	SQ
E39401	Tools, Shop & Garage Equipment	18	SQ	18	SQ
E39501	Laboratory Equipment	25	SQ	25	SQ
E39601	Power Operated Equipment	21	L1.5	18	L2
E39701	Microwave Equipment	24	SQ	22	R2
E39702	Computer Equipment	8	SQ	8	SQ
E39801	Miscellaneous. Equipment	20	SQ	20	SQ

Direct Testimony of Dane A. Watson  
CenterPoint Energy Houston Electric, LLC

Exhibit 1

1

Figure 2

Account	Description	Approved Net Salvage	Proposed Net Salvage
E30302	Intangible Plant 5 year	0%	0%
E30302	Intangible Plant 7 year	0%	0%
E30302	Intangible Plant 10 year	0%	0%
E30302	Intangible Plant 15 year	NA	0%
E35002	Land Rights	0%	0%
E35201	Structures. & Improvements	0%	-5%
E35301	Station Equipment	-5%	-10%
E35401	Towers & Fixtures	-15%	-30%
E35501	Poles and Fixtures	-35%	-50%
E35601	O/H Conduct/Devices	-74%	-100%
E35701	Underground Conduit	0%	-5%
E35801	U/G Conduct/Devices	-2%	-5%
E35901	Roads and Trails	0%	0%
E36002	Land Rights	0%	0%
E36101	Structures & Improvements	-10%	-10%
E36201	Station Equipment	0%	-10%
E36301	Battery Storage Equipment	NA	0%
E36401	Poles, Towers & Fixtures	-45%	-45%
E36501	O/H Conduct Devices	-23%	-30%
E36601	Underground Conduit	-20%	-30%
E36701	U/G Conduct/Devices	-13%	-35%
E36801	Line Transformers	-2%	-15%
E36901	Services	-20%	-60%
E37001	Meters	0%	0%
E37003	AMS Meters	0%	0%
E37301	Street Lighting/Signal Systems	-40%	-30%
E37401	Security Lighting	-40%	-30%
E38902	Land Rights	0%	0%
E39001	Structures. & Improvements	0%	-5%
E39101	Office F/F	0%	0%
E39201	Transportation Equipment	9%	10%
E39301	Stores Equipment	0%	0%
E39401	Tools, Shop & Garage Equipment	0%	0%
E39501	Laboratory Equipment	0%	0%
E39601	Power Operated Equipment	8%	6%
E39701	Microwave Equipment	0%	2%
E39702	Computer Equipment	0%	0%
E39801	Miscellaneous. Equipment	0%	0%

Direct Testimony of Dane A. Watson  
CenterPoint Energy Houston Electric, LLC

Final

Implementation of this approach did not affect the annual expense accrued by CenterPoint Houston and provides for the timely retirement of assets and the simplification of accounting for general property. Both the FERC and the Public Utility Commission of Texas ("PUCT") have approved this approach. The decreased expense in General Amortized Plant is due to the recognition of changes in lives, not the continued use of Vintaged Group Amortization, as shown in Appendix E-4. A summary of the existing and proposed annual accrual rates are listed below.

CenterPoint Houston  
Current and Requested Depreciation Rates

	Description	Existing Accrual Rate	Proposed Accrual Rate
	<b>Intangible Plant</b>		
303	Intangible Plant 5 Year Life	20.00%	20.00%
303	Intangible Plant 7 Year Life	14.29%	14.29%
303	Intangible Plant 10 Year Life	10.00%	10.00%
303	Intangible Plant 15 Year Life	NA	6.67%
	<b>Transmission Plant</b>		
350	Land Rights	1.32%	1.31%
352	Structures and Improvements	1.65%	1.74%
353	Station Equipment	2.21%	2.05%
354	Towers and Fixtures	1.89%	2.15%
355	Poles and Fixtures	3.35%	2.47%
356	Overhead Conductors and Devices	3.34%	3.21%
357	Underground Conduit	1.64%	1.73%
358	Underground Conductors and Devices	2.45%	2.35%
359	Roads and Trails	1.71%	1.90%
	<b>Distribution Plant (Excluding Meters)</b>		
360	Land Rights	1.42%	1.55%
361	Structures and Improvements	1.62%	1.68%
362	Station Equipment	1.84%	2.14%
363	Battery Storage Equipment	NA	10.00%
364	Poles, Towers and Fixtures	3.64%	3.84%
365	Overhead Conductors and Devices	2.74%	3.24%
366	Underground Conduits	2.53%	1.96%
367	Underground Conductors and Devices	3.27%	3.34%
368	Line Transformers	3.07%	3.71%
369	Services	2.97%	3.76%
370	Meters	4.66%	3.32%
370.3	Smart Meters	14.29%	4.77%
373 & 374	Street Lighting and Signal Systems	3.45%	3.09%
	<b>General Plant (Excluding General Plant Amortized)</b>		
389	Land Rights	2.01%	1.80%

Errata 1

## LIFE ANALYSIS

### Account 303 Intangible Plant (5 year, 7 year, 10 year, and 15 year)

This account consists of intangible plant such as computer software. As utilities have become more dependent on technology, CenterPoint's investment in intangible plant has increased to \$294.7 million at December 31, 2018. AMS related software is depreciated over a 7-year life. Other software is depreciated over a 5- or 10-year life depending on the purpose of the system. As a part of this depreciation study, we reviewed the current systems and planned future additions to that account. Company Subject Matter Experts ("SMEs") reviewed each project in service and divided the investment into different live groups based on the SME's understanding of the useful life for each individual software program: 5-year, 7-year, 10-year, and 15-year. All AMS assets installed during the AMS surcharge period have a 7-year life per PUC rule in Docket 35369.

Errata 1

(in use prior to 2014) being unable to provide sufficient information to perform the calculation.

For each plant account, the pro forma consisted of dividing projects between removal-only projects where all costs for the project are recorded as removal cost versus those projects where there is both replacement and removal cost activity. The book removal cost for replacement projects over the last four years was adjusted based on the new allocation percentage. This adjusted removal cost was recombined with the removal-only project removal costs and subsequently used in the Study's net salvage analysis. In most accounts, this resulted in a reduction in the negative net salvage percentage found in the net salvage analysis over the last 4 years as compared to the amount found on the Company's books. This reduction was taken into consideration when recommending the net salvage percentages in this Study.

**Account 303** **Intangible Plant** **(0 % net salvage)**

intangible plant such as

This account consists of gross salvage and cost of removal for computer software. Currently, all software uses 0 percent net salvage. There is no expectation, either from the company or from Alliance's experience, that software systems would incur removal cost or receive any salvage at retirement. Based on Company experience and judgment, this study recommends 0 percent net salvage for all software accounts.

CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC  
COMPARISON OF DEPRECIATION ACCRUAL INTANGIBLE PLANT  
AT EXISTING VS PROPOSED RATES  
AT DECEMBER 31, 2018

Account	Description	Original Cost at 12/31/18	Existing Accrual Rate	Annual Accrual at Existing Rates	Proposed Accrual Rate	Annual Accrual at Proposed Rates	Difference Proposed vs Existing
<b>Intangible Plant Current Groupings</b>							
E30302	Intangible Plant 5 YEAR	133,888,854.40	20.00%	26,777,770.88	20.00%		
E30302	Intangible Plant 7 YEAR	77,256,845.17	14.29%	11,040,003.17	14.29%		
E30302	Intangible Plant 10 YEAR	83,593,909.77	10.00%	8,359,390.98	10.00%		
E30302	Intangible Plant 15 YEAR	0.00	10.00%	0.00	6.67%		
Total Intangible Plant accrual rates		294,739,609.34		46,177,165.03			
<b>Intangible Plant Proposed Groupings</b>							
E30302	Intangible Plant 5 YEAR	74,410,485.77	20.00%		20.00%	14,882,097.15	
E30302	Intangible Plant 7 YEAR	104,341,336.40	14.29%		14.29%	14,910,376.97	
E30302	Intangible Plant 10 YEAR	96,273,816.47	10.00%		10.00%	9,627,381.65	
E30302	Intangible Plant 15 YEAR	19,713,970.67	10.00%		6.67%	1,314,921.84	
Total Intangible Plant accrual proposed rates		294,739,609.31				40,734,777.62	
Difference Intangible Accrual							(5,442,387.42)
Total Transmission Distribution and General				322,112,171.85		325,286,250.39	3,174,078.53
Total Intangible and TDG				368,289,336.88		366,021,028.00	(2,268,308.88)

Final

CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC  
COMPARISON OF APPROVED AND PROPOSED  
DEPRECIATION PARAMETERS  
AT DECEMBER 31, 2017

Asset Class	Description	Approved Life	Approved Curve	Approved Net Salvage %	Proposed Life	Proposed Curve	Proposed Net Salvage
<b>Intangible Plant</b>							
E30302	Intangible Plant 5 YEAR	5	SQ	0.00%	5	SQ	0.00%
E30302	Intangible Plant 7 YEAR	7	SQ	0.00%	7	SQ	0.00%
E30302	Intangible Plant 10 YEAR	10	SQ	0.00%	10	SQ	0.00%
E30302	Intangible Plant 15 YEAR	NA	NA	NA	15	SQ	0.00%
<b>Transmission</b>							
E35002	LAND RIGHTS	75	R1	0.00%	75	R1	0.00%
E35201	STRUCT. & IMPROVEMTS	60	R4	0.00%	60	R1.5	-5.00%
E35301	STATION EQUIPMENT	47	R1	-5.00%	53	R0.5	-10.00%
E35401	TOWERS & FIXTURES	60	R4	-15.00%	59	R2.5	-30.00%
E35501	POLES AND FIXTURES	40	R0.5	-35.00%	60	R0.5	-50.00%
E35601	O/H CONDUCT/DEVICES	50	R2	-74.00%	61	R1.5	-100.00%
E35701	UNDERGROUND CONDUIT	60	R5	0.00%	60	R5	-5.00%
E35801	U/G CONDUCT/DEVICES	40	R5	-2.00%	44	S6	-5.00%
E35901	ROADS AND TRAILS	58	S6	0.00%	52	S6	0.00%
<b>Distribution</b>							
E36002	LAND RIGHTS	55	R1	0.00%	60	R1	0.00%
E36101	STRUCT. & IMPROVEMTS	66	R4	-10.00%	60	R4	-10.00%
E36201	STATION EQUIPMENT	47	R1.5	0.00%	48	R1	-10.00%
E36301	BATTERY STORAGE EQUIPMENT	NA	NA	NA	10	SQ	0.00%
E36401	POLES, TOWERS, FIXTURE	35	R0.5	-45.00%	35	R0.5	-45.00%
E36501	O/H CONDUCT DEVICES	40	R0.5	-23.00%	38	R0.5	-30.00%
E36601	UNDERGROUND CONDUIT	37	S6	-20.00%	62	R2.5	-30.00%
E36701	U/G CONDUCT/DEVICES	31	R0.5	-13.00%	38	R0.5	-35.00%
E36801	LINE TRANSFORMERS	28	R1	-2.00%	28	R1	-15.00%
E36901	SERVICES	36	R0.5	-20.00%	46	R0.5	-60.00%
E37001	METERS	27	R2	0.00%	21	R3	0.00%
E37003	AMS METERS	7	SQ	0.00%	20	R2	0.00%
E37301	STREET LIGHT/SIGNAL SYS	36	R1	-40.00%	39	R1	-30.00%
E37401	SECURITY LIGHTING	36	R1	-40.00%	39	R1	-30.00%
<b>General</b>							
E38002	LAND RIGHTS	60	R2	0.00%	55	R2	0.00%
E39001	STRUCT. & IMPROVEMTS	40	R2	0.00%	60	R4	-5.00%
E39101	OFFICE F/F	24	SQ	0.00%	24	SQ	0.00%
E39201	TRANSPORTATION EQUIP	12	R1.5	9.00%	13	L2	10.00%
E39301	STORES EQUIPMENT	19	SQ	0.00%	19	SQ	0.00%
E39401	TOOLS, SHOP, GAR EQUIP	18	SQ	0.00%	18	SQ	0.00%
E39501	LAB EQUIPMENT	25	SQ	0.00%	25	SQ	0.00%
E39601	POWER OPERATED EQUIP	21	L1.5	8.00%	18	L2	6.00%
E39701	MICROWAVE EQUIPMENT	24	SQ	0.00%	22	R2	2.00%
E39702	COMPUTER EQUIPMENT	8	SQ	0.00%	8	SQ	0.00%
E39801	MISC. EQUIPMENT	20	SQ	0.00%	20	SQ	0.00%

### **CERTIFICATE OF SERVICE**

I hereby certify that on this 20<sup>th</sup> day of May 2019, a true and correct copy of the foregoing document was served on all parties of record in accordance with 16 Tex. Admin. Code § 22.74.

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