



Control Number: 49421



Item Number: 224

Addendum StartPage: 0

SOAH DOCKET NO. 473-19-3864

PUC DOCKET NO. 49421

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PUBLIC HEARING

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

May 16, 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

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**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**CITY OF HOUSTON
REQUEST NO.: COH09-01**

QUESTION:

Please refer to Page 5 of 27 of WP/Streetlight Rate Design and provide the annual numbers of Lamps for City of Houston accounts only, by lamp types in the same format as shown on this page.

ANSWER:

Please refer to page 1 of attachment COH09-12 - Street Light Revenue Current vs Proposed in response to COH09-12.

SPONSOR (PREPARER):
Matthew Troxle (Matthew Troxle)

RESPONSIVE DOCUMENTS:
None

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**CITY OF HOUSTON
REQUEST NO.: COH09-02**

QUESTION:

Please refer to Page 7 of 27 of WP/Streetlight Rate Design and provide the current revenues for City of Houston accounts only, by lamp types in the same format as shown on this page.

ANSWER:

Please refer to page 3 of attachment COH09-12 - Street Light Revenue Current vs Proposed in response to COH09-12.

SPONSOR (PREPARER):
Matthew Troxle (Matthew Troxle)

RESPONSIVE DOCUMENTS:
None

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**CITY OF HOUSTON
REQUEST NO.: COH09-03**

QUESTION:

Please refer to Page 7 of 27 of WP/Streetlight Rate Design and provide the actual streetlight revenues collected from City of Houston accounts only by lamp types for the test year, in the same format as shown on this page.

ANSWER:

Please refer COH09-12 - Billed Base T and D in response to COH09-12.

SPONSOR (PREPARER):

Matthew Troxle (Matthew Troxle)

RESPONSIVE DOCUMENTS:

None

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**CITY OF HOUSTON
REQUEST NO.: COH09-04**

QUESTION:

Please refer to Page 9 of 27 of WP/Streetlight Rate Design and provide the proposed streetlight revenues for City of Houston accounts only by lamp types for the test year, in the same format as shown on this page.

ANSWER:

Please refer to page 5 of attachment COH09-12 - Street Light Revenue Current vs Proposed in response to COH09-12.

SPONSOR (PREPARER):

Matthew Troxle (Matthew Troxle)

RESPONSIVE DOCUMENTS:

None

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**CITY OF HOUSTON
REQUEST NO.: COH09-05**

QUESTION:

Please refer to Page 11 of 27 of WP/Streetlight Rate Design and provide the percent increase/decrease in revenue for Streetlight revenues for City of Houston accounts only, by lamp types for the test year, in the same format as shown on this page.

ANSWER:

Please refer to page 7 of attachment COH09-12 - Street Light Revenue Current vs Proposed in response to COH09-12.

SPONSOR (PREPARER):
Matthew Troxle (Matthew Troxle)

RESPONSIVE DOCUMENTS:
None

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**CITY OF HOUSTON
REQUEST NO.: COH09-06**

QUESTION:

Please refer to Page 18 of 27 of WP/Streetlight Rate Design and answer the following questions:

- a. Please explain in detail how the initial investments for Luminaire for the LED Lighting were determined.
- b. Please explain in detail how the \$18.32 initial investment for the Photovol TAIC Electric Relay (PER) for the LED Lighting was determined.
- c. Please explain in detail how the \$46.34 initial investment for the Mounting Bracket for the LED Lighting was determined.
- d. Please explain in detail how the \$20 initial investment for the 100' SPan - #4-2C Twist @ \$.20/FT for the LED Lighting was determined.
- e. Please explain in detail how the \$7.53 initial investment for the Arm Wiring /Splices/Misc. Components for the LED Lighting was determined.
- f. Please explain in detail how the \$134.35 initial investment for the Installation Cost (Labor) for the LED Lighting was determined.
- g. Please explain in detail how the initial investments for the Overhead (Stores & Engr.) for the LED Lighting were determined.
- h. Please explain in detail how the \$36.64 Fixture Replacement Cost for the LED Lighting was determined.
- i. Please explain in detail how the \$19.95 Transportation Cost for the LED Lighting was determined.
- j. Please explain in detail how the \$94.89 Labor Cost/hr for the LED Lighting was determined.
- k. Please explain in detail how the \$109.13 Replacement Cost (Labor) for the LED Lighting was determined.
- l. Please explain in detail how the \$6.92 Overhead (Store) for the LED Lighting was determined.

ANSWER:

- a. The initial investment for Luminaires for the LED lighting was determined by taking the cost of the initial investment of material, labor cost, and the overhead factors. The total initial investments for material and labor cost were the result of complete contract negotiations with the respective CenterPoint Houston vendors, added with the overhead factors after applied accordingly as shown in response COH09-11 (c) and (d).
- b. The \$18.32 initial investment for the Photovol TAIC Electric Relay (PER) for the LED Lighting was determined by the moving average price (MAP) from the test year 2018. The moving average price is determined by taking the average of each individual unit purchase price over the history of the part and averaging them to produce the MAP.
- c. The \$46.34 initial investment for the Mounting Bracket for the LED Lighting was determined by the moving average price (MAP) from the test year 2018. The moving average price is determined by taking the average of each individual unit purchase price over the history of the part and averaging them to produce the MAP.
- d. The \$20 initial investment for the 100' Span - #4-2C Twist @ \$.20/FT for the LED Lighting was determined by the actual cost of the #4-2C Twist at \$.20/FT in the test year 2018.
- e. The \$7.53 initial investment for the Arm Wiring/Splices/Misc. Components for the LED Lighting was determined by the actual costs of the Arm Wiring/Splices/Misc. Components in the test year 2018.

- f. The \$134.35 initial investment for the Installation Cost (Labor) for the LED Lighting was determined by the total labor required to install the 120 Volt LED luminaire fixture with 100' Span of #4-2C Twist. The total labor cost was determined by the rates designated because of complete contract negotiations with the respective CenterPoint Houston vendor.
- g. The Overhead (stores & engineering/construction) cost is included in the initial total investment cost of each LED street light type because the Overhead is added to the purchase price of plant when it is capitalized. The Overhead initial investment cost for LED lighting is the result of applying the Test Year 2018 engineering/construction overhead factor and stores overhead factor to the established Test Year 2018 initial investment material and labor cost for each lamp type accordingly. [Please see response COH09-11 (c) and (d)].
- h. The O&M fixture replacement cost \$36.64 for LED Lighting was determined using the Test Year 2018 initial investment material cost for LED Photovoltaic Electric Relay ("PER") and applying the estimated number of occurrences (two) which properly reflects the expense to replace an LED PER over the used and useful life of an existing LED installation.
- i. The O&M transportation cost consist of the expense associated with the use of a single bucket truck to maintain, repair, replace, and/or install a street light. The transportation cost is the result of the cost of a single bucket truck for one half manhour and applying the estimated number of occurrences (two) that properly reflect the transportation expense over the used and useful life of an existing LED installation.

Please see response COH09-12 attachment COH09-12 Assumptions for Cost Calculations at tab "Sheet 1" for a detailed explanation of the derivation of the \$19.95 transportation cost. It should be noted the Test Year 2018 average transportation cost per lamp type was applied to all street light types, based on the weighted average of the used and useful life of a High-Pressure Sodium and LED lamp, to provide a reasonable and conservative basis of the total transportation cost to service each lamp.

- j. The \$94.89 Labor Cost/hr for the LED Lighting was determined by complete contract negotiations with the respective CenterPoint Houston vendor.
- k. The O&M Replacement labor cost representative the cost of one service employee at one half manhour, and the coordination cost associated with the service dispatch for LED lighting, then applying the estimated number of occurrences (two) to properly reflect the O&M replacement labor expense to repair an LED over the used and useful life of an existing LED installation.

Due to a formula error in the WP/Streetlight Rate Design the Coordination cost factor should be \$0.89 resulting in the O&M replacement labor cost value of 96.67, this will be corrected in the filed ERRATA.

- l. The Overhead (Store) cost \$6.92 is the result of applying the Stores Overhead factor to the O&M fixture replacement cost to properly reflect the cost of stores. [Please see response COH09-11 (d) for explanation for store overhead rate factor.]

SPONSOR (PREPARER):

Matthew Troxle/Julienne Sugarek (Matthew Troxle, Julienne Sugarek)

RESPONSIVE DOCUMENTS:

None

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**CITY OF HOUSTON
REQUEST NO.: COH09-07**

QUESTION:

Please refer to Page 20 of 27 of WP/Streetlight Rate Design and answer the following questions:

- a. Please explain in detail how the initial investments for Luminaire for the LED Lighting were determined.
- b. Please explain in detail how the \$18.32 initial investment for the Photovol TAIC Electric Relay (PER) for the LED Lighting was determined.
- c. Please explain in detail how the \$75 initial investment for the Mounting Bracket/ARM(8' Arm) for the LED Lighting was determined.
- d. Please explain in detail how the \$674 initial investment for the 30' Base Plate Type Pole for the LED Lighting was determined.
- e. Please explain in detail how the \$298.18 initial investment for the Foundation Rebar. Anchor Bolt Kit (SAP 243140) for the LED Lighting was determined.
- f. Please explain in detail how the \$10.39 initial investment for the Pole Wire/Splices/Misc. Components for the LED Lighting was determined.
- g. Please explain in detail how the \$33 initial investment for the OH Wire@150' - Source To Pole @.20/FT for the LED Lighting was determined.
- h. Please explain in detail how the \$876.25 initial investment for the Installation Cost (Labor) for the LED Lighting was determined.
- i. Please explain in detail how the initial investments for the Overhead (Stores & Engr.) for the LED Lighting were determined.
- j. Please explain in detail how the \$36.64 Fixture Replacement Cost for the LED Lighting was determined.
- k. Please explain in detail how the \$9.98 Transportation Cost for the LED Lighting was determined.
- l. Please explain in detail how the \$90.48 Labor Cost/hr for the LED Lighting was determined.
- m. Please explain in detail how the \$104.7 Replacement Cost (Labor) for the LED Lighting was determined.
- n. Please explain in detail how the \$6.92 Overhead (Store) for the LED Lighting was determined.

ANSWER:

- a. The initial investment for Luminaires for the LED lighting was determined by taking the cost of the initial investment of material, labor cost, and the overhead factors. The total initial investments for material and labor cost were the result of complete contract negotiations with the respective CenterPoint Houston vendors, added with the overhead factors after applied accordingly as shown in response COH09-11 (c)and (d).
- b. The \$18.32 initial investment for the Photovol TAIC Electric Relay (PER) for the LED Lighting was determined by the moving average price (MAP) from the test year 2018. The moving average price is determined by taking the average of each individual unit purchase price over the history of the part and averaging them to produce the MAP.
- c. The \$75 initial investment for the Mounting Bracket/ARM (8' Arm) for the LED Lighting was determined by the moving average price (MAP) from the test year 2018. The moving average price is determined by taking the average of each individual unit purchase price over the history of the part and averaging them to produce the MAP.
- d. The \$674 initial investment for the 30' Base Plate Type Pole for the LED Lighting was determined by the moving average price (MAP) from the test year 2018. The moving average price is determined by taking the average of each individual unit purchase price over the history of the part and averaging them to produce the MAP.

- e. The \$298.18 initial investment for the Foundation Rebar. Anchor Bolt Kit (SAP 243140) for the LED Lighting was determined by the moving average price (MAP) from the test year 2018. The moving average price is determined by taking the average of each individual unit purchase price over the history of the part and averaging them to produce the MAP.
- f. The \$10.39 initial investment for the Pole Wire/Splices/Misc. Components for the LED Lighting was determined by the actual costs of the Pole Wire/Splices/Misc. Components in the test year 2018.
- g. The \$33 initial investment for the OH Wire@150' -Source to Pole @.20/FT for the LED Lighting was determined by the actual cost of the OH Wire in the test year 2018.
- h. The \$876.25 initial investment for the Installation Cost (Labor) for the LED Lighting was determined by the total labor required to install the base plate foundation mounted type pole with 150' Span of OH Wire. The total labor cost was determined by the rates designated because of complete contract negotiations with the respective CenterPoint Houston vendor.
- i. The Overhead (stores & engineering/construction) cost is included in the initial total investment cost of each LED street light type because the Overhead is added to the purchase price of plant when it is capitalized. The Overhead initial investment cost for LED lighting is the result of applying the Test Year 2018 engineering/construction overhead factor and stores overhead factor to the established Test Year 2018 initial investment material and labor cost for each lamp type accordingly. [Please see response COH09-11 (c) and (d)].
- j. The O&M fixture replacement cost \$36.64 for LED Lighting was determined using the Test Year 2018 initial investment material cost for LED Photovoltaic Electric Relay ("PER") and applying the estimated number of occurrences (two) which properly reflects the expense to replace an LED PER over the used and useful life of an existing LED installation.
- k. The O&M transportation cost consist of the expense associated with the use of a single bucket truck to maintain, repair, replace, and/or install a street light. The transportation cost is the result of the cost of a single bucket truck for one half manhour and applying the estimated number of occurrences (two) that properly reflect the transportation expense over the used and useful life of an existing LED installation.

Please see response COH09-12 attachment COH09-12 Assumptions for Cost Calculations at tab "Sheet 1" for a detailed explanation of the derivation of the \$19.95 transportation cost. It should be noted the Test Year 2018 average transportation cost per lamp type was applied to all street light types, based on the weighted average of the used and useful life of a High-Pressure Sodium and LED lamp, to provide a reasonable and conservative basis of the total transportation cost to service each lamp.

Due to a formula error in the WP/Streetlight Rate Design \$9.98 transportation cost value should be \$19.95, this will be corrected in the filed ERRATA.

- l. The \$90.48 Labor Cost/hr for the LED Lighting was determined by complete contract negotiations with the respective CenterPoint Houston vendor.
- m. The O&M Replacement labor cost representative the cost of one service employee at one half man-hour, and the coordination cost associated with the service dispatch for LED lighting, then applying the estimated number of occurrences (two) to properly reflect the O&M replacement labor expense to repair an LED over the used and useful life of an existing LED installation.

Due to a formula error in the WP/Streetlight Rate Design the Coordination cost factor should be \$0.89 resulting in the O&M replacement labor cost value of 92.24, this will be corrected in the filed ERRATA.

- n. The Overhead (Store) cost \$13.84 is the result of applying the Stores Overhead factor to the O&M fixture replacement cost to properly reflect the cost of stores. [Please see response COH09-11 (d) for explanation for store overhead rate factor.]

SPONSOR (PREPARER):

Matthew Troxle/Julienne Sugarek (Matthew Troxle, Julienne Sugarek)

RESPONSIVE DOCUMENTS:

None

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**CITY OF HOUSTON
REQUEST NO.: COH09-08**

QUESTION:

Please refer to Page 22 of 27 of WP/Streetlight Rate Design and answer the following questions:

- a. Please explain in detail how the initial investments for Luminaire for the LED Lighting were determined.
- b. Please explain in detail how the \$36.64 initial investment for the Photovol TAIC Electric Relay (PER) for the LED Lighting was determined.
- c. Please explain in detail how the \$150.96 initial investment for the Mounting Bracket/ARM(8' Arm) for the LED Lighting was determined.
- d. Please explain in detail how the \$674 initial investment for the 30' Base Plate Type Pole for the LED Lighting was determined.
- e. Please explain in detail how the \$298.18 initial investment for the Foundation Rebar. Anchor Bolt Kit (SAP 243140) for the LED Lighting was determined.
- f. Please explain in detail how the \$12.31 initial investment for the Pole Wire/Splices/Misc. Components for the LED Lighting was determined.
- g. Please explain in detail how the \$33 initial investment for the OH Wire@150' - Source To Pole @.20/FT for the LED Lighting was determined.
- h. Please explain in detail how the \$876.25 initial investment for the Installation Cost (Labor) for the LED Lighting was determined.
- i. Please explain in detail how the initial investments for the Overhead (Stores & Engr.) for the LED Lighting were determined.
- j. Please explain in detail how the \$73.28 Fixture Replacement Cost for the LED Lighting was determined.
- k. Please explain in detail how the \$19.95 Transportation Cost for the LED Lighting was determined.
- l. Please explain in detail how the \$94.89 Labor Cost/hr for the LED Lighting was determined.
- m. Please explain in detail how the \$109.13 Replacement Cost (Labor) for the LED Lighting was determined.
- n. Please explain in detail how the \$13.84 Overhead (Store) for the LED Lighting was determined.

ANSWER:

- a. The initial investment for Luminaires for the LED lighting was determined by taking the cost of the initial investment of material, labor cost, and the overhead factors. The total initial investments for material and labor cost were the result of complete contract negotiations with the respective CenterPoint Houston vendors, added with the overhead factors after applied accordingly as shown in response COH09-11 (c)and (d).

- b. The \$36.64 initial investment for the Photovol TAIC Electric Relay (PER) for the LED Lighting was determined by taking the moving average price (MAP) from the test year 2018 and applying the number of relays required for initial installation (2). The moving average price is determined by taking the average of each individual unit purchase price over the history of the part and averaging them to produce the MAP.
- c. The \$150.96 initial investment for the Mounting Bracket/ARM (8' Arm) for the LED Lighting was determined by the moving average price (MAP) from the test year 2018. The moving average price is determined by taking the average of each individual unit purchase price over the history of the part and averaging them to produce the MAP.
- d. The \$674 initial investment for the 30' Base Plate Type Pole for the LED Lighting was determined by the moving average price (MAP) from the test year 2018. The moving average price is determined by taking the average of each individual unit purchase price over the history of the part and averaging them to produce the MAP.
- e. The \$298.18 initial investment for the Foundation Rebar. Anchor Bolt Kit (SAP 243140) for the LED Lighting was determined by the moving average price (MAP) from the test year 2018. The moving average price is determined by taking the average of each individual unit purchase price over the history of the part and averaging them to produce the MAP.
- f. The \$12.31 initial investment for the Pole Wire/Splices/Misc. Components for the LED Lighting was determined by the actual costs of the Pole Wire/Splices/Misc. Components in the test year 2018.
- g. The \$33 initial investment for the OH Wire@150' -Source to Pole @.20/FT for the LED Lighting was determined by the actual cost of the OH Wire in the test year 2018.
- h. The \$876.25 initial investment for the Installation Cost (Labor) for the LED Lighting was determined by the total labor required to install the base plate foundation mounted type pole with 150' Span of OH Wire. The total labor cost was determined by the rates designated because of complete contract negotiations with the respective CenterPoint Houston vendor.
- i. The Overhead (stores & engineering/construction) cost is included in the initial total investment cost of each LED street light type because the Overhead is added to the purchase price of plant when it is capitalized. The Overhead initial investment cost for LED lighting is the result of applying the Test Year 2018 engineering/construction overhead factor and stores overhead factor to the established Test Year 2018 initial investment material and labor cost for each lamp type accordingly. [Please see response COH09-11 (c) and (d)].
- j. The O&M fixture replacement cost \$73.28 for LED Lighting was determined by the Test Year 2018 established initial investment material cost for LED Photovoltaic Electric Relay ("PER") and applying the estimated number of occurrences (two) to properly reflect the expense to replace an LED PER over the used and useful life of an existing LED installation.
- k. The O&M transportation cost consist of the expense associated with the use of a single bucket truck to maintain, repair, replace, and/or install a street light. The transportation cost is the result of the cost of a single bucket truck for one half manhour and applying the estimated number of occurrences (two) that properly reflect the transportation expense over the used and useful life of an existing LED installation.

Please see response COH09-12 attachment COH09-12 Assumptions for Cost Calculations at tab "Sheet 1" for a detailed explanation of the derivation of the \$19.95 transportation cost. It should be noted the Test Year 2018 average transportation cost per lamp type was applied to all street light types, based on the weighted average of the used and useful life of a High-Pressure Sodium and LED lamp, to provide a reasonable and conservative basis of the total transportation cost to service each lamp.

- l. The \$94.89 Labor Cost/hr for the LED Lighting was determined by complete contract

negotiations with the respective CenterPoint Houston vendor.

- m. The O&M Replacement labor cost representative the cost of one service employee at one half manhour, and the coordination cost associated with the service dispatch for LED lighting, then applying the estimated number of occurrences (two) to properly reflect the O&M replacement labor expense to repair an LED over the used and useful life of an existing LED installation.

Due to a formula error in the WP/Streetlight Rate Design the Coordination cost factor should be \$0.89 resulting in the O&M replacement labor cost value of 96.67, this will be corrected in the filed ERRATA.

- n. The Overhead (Store) cost \$13.84 is the result of applying the Stores Overhead factor to the O&M fixture replacement cost to the estimated number of occurrences (two) to properly reflect the expense to replace an LED PER over the used and useful life of an existing LED installation.

SPONSOR (PREPARER):

Matthew Troxle/Julienne Sugarek (Matthew Troxle, Julienne Sugarek)

RESPONSIVE DOCUMENTS:

None

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**CITY OF HOUSTON
REQUEST NO.: COH09-09**

QUESTION:

Please refer to Page 24 of 27 of WP/Streetlight Rate Design and answer the following questions:

- a. Please explain in detail how the initial investments for Luminaire for the LED Lighting were determined.
- b. Please explain in detail how the \$18.32 initial investment for the Photovol TAIC Electric Relay (PER) for the LED Lighting was determined.
- c. Please explain in detail how the \$51 initial investment for the Mounting Bracket/ARM(2') for the LED Lighting was determined.
- d. Please explain in detail how the \$371 initial investment for the 30' Direct Embedded Pole for the LED Lighting was determined.
- e. Please explain in detail how the \$29.71 initial investment for the Pole Wire/Splices/Misc. Components for the LED Lighting was determined.
- f. Please explain in detail how the \$63 initial investment for the UG Wire@150' - Source To Pole @.42/FT for the LED Lighting was determined.
- g. Please explain in detail how the \$787.97 initial investment for the Installation Cost (Labor) for the LED Lighting was determined.
- h. Please explain in detail how the initial investments for the Overhead (Stores & Engr.) for the LED Lighting were determined.
- i. Please explain in detail how the \$36.64 Fixture Replacement Cost for the LED Lighting was determined.
- j. Please explain in detail how the \$19.95 Transportation Cost for the LED Lighting was determined.
- k. Please explain in detail how the \$90.46 Labor Cost/hr for the LED Lighting was determined.
- l. Please explain in detail how the \$104.70 Replacement Cost (Labor) for the LED Lighting was determined.
- m. Please explain in detail how the \$6.92 Overhead (Store) for the LED Lighting was determined.

ANSWER:

- a. The initial investment for Luminaires for the LED lighting was determined by taking the cost of the initial investment of material, labor cost, and the overhead factors. The total initial investments for material and labor cost were the result of complete contract negotiations with the respective CenterPoint Houston vendors, added with the overhead factors after applied accordingly as shown in response COH09-11 (c) and (d).
- b. The \$18.32 initial investment for the Photovol TAIC Electric Relay (PER) for the LED Lighting was determined by the moving average price (MAP) from the test year 2018. The moving average price is determined by taking the average of each individual unit purchase price over the history of the part and averaging them to produce the MAP.
- c. The \$51 initial investment for the Mounting Bracket/ARM (2') for the LED Lighting was determined by the moving average price (MAP) from the test year 2018. The moving average price is determined by taking the average of each individual unit purchase price over the history of the part and averaging them to produce the MAP.
- d. The \$371 initial investment for the 30' Direct Embedded Pole for the LED Lighting was determined by the moving average price (MAP) from the test year 2018. The moving average price is determined by taking the average of each individual unit purchase price over the history of the part and averaging them to produce the MAP.

- e. The \$29.71 initial investment for the Pole Wire/Splices/Misc. Components for the LED Lighting was determined by the actual costs of the Pole Wire/Splices/Misc. Components in the test year 2018.
- f. The \$63 initial investment for the UG Wire@150' - Source to Pole @.42/FT for the LED Lighting was determined by the actual costs of the UG Wire in the test year 2018.
- g. The \$787.97 initial investment for the Installation Cost (Labor) for the LED Lighting was determined by the total labor required to install a direct embedded pole with 150' of bored underground service conductor. The total labor cost was determined by the rates designated because of complete contract negotiations with the respective CenterPoint Houston vendor.
- h. The Overhead (stores & engineering/construction) cost is included in the initial total investment cost of each LED street light type because the Overhead is added to the purchase price of plant when it is capitalized. The Overhead initial investment cost for LED lighting is the result of applying the Test Year 2018 engineering/construction overhead factor and stores overhead factor to the established Test Year 2018 initial investment material and labor cost for each lamp type accordingly. [Please see response COH09-11 (c) and (d)].
- i. The O&M fixture replacement cost \$36.64 for LED Lighting was determined using the Test Year 2018 initial investment material cost for LED Photovoltaic Electric Relay ("PER") and applying the estimated number of occurrences (two) which properly reflects the expense to replace an LED PER over the used and useful life of an existing LED installation.
- j. The O&M transportation cost consist of the expense associated with the use of a single bucket truck to maintain, repair, replace, and/or install a street light. The transportation cost is the result of the cost of a single bucket truck for one half manhour and applying the estimated number of occurrences (two) that properly reflect the transportation expense over the used and useful life of an existing LED installation.

Please see response COH09-12 attachment COH09-12 Assumptions for Cost Calculations at tab "Sheet 1" for a detailed explanation of the derivation of the \$19.95 transportation cost. It should be noted the Test Year 2018 average transportation cost per lamp type was applied to all street light types, based on the weighted average of the used and useful life of a High-Pressure Sodium and LED lamp, to provide a reasonable and conservative basis of the total transportation cost to service each lamp.

- k. The \$90.46 Labor Cost/hr for the LED Lighting was determined by complete contract negotiations with the respective CenterPoint Houston vendor.
- l. The O&M Replacement labor cost representative the cost of one service employee at one half manhour, and the coordination cost associated with the service dispatch for LED lighting, then applying the estimated number of occurrences (two) to properly reflect the O&M replacement labor expense to repair an LED over the used and useful life of an existing LED installation.

Due to a formula error in the WP/Streetlight Rate Design the Coordination cost factor should be \$0.89 resulting in the O&M replacement labor cost value of 92.24, this will be corrected in the filed ERRATA.

- m. The Overhead (Store) cost \$6.92 is the result of applying the Stores Overhead factor to the O&M fixture replacement cost to properly reflect the cost of stores. [Please see response COH09-11 (d) for explanation for store overhead rate factor.]

SPONSOR (PREPARER):

Matthew Troxle/Julienne Sugarek (Matthew Troxle, Julienne Sugarek)

RESPONSIVE DOCUMENTS:
None

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**CITY OF HOUSTON
REQUEST NO.: COH09-10**

QUESTION:

Please refer to Page 26 of 27 of WP/Streetlight Rate Design and answer the following questions.

- a. Please explain in detail how the initial investments for Luminaire for the LED Lighting were determined.
- b. Please explain in detail how the \$36.64 initial investment for the Photovol TAIC Electric Relay (PER) for the LED Lighting was determined.
- c. Please explain in detail how the \$150.96 initial investment for the Mounting Bracket/ARM(8' Arm) for the LED Lighting was determined.
- d. Please explain in detail how the \$674 initial investment for the 30' Base Plate Type Pole for the LED Lighting was determined.
- e. Please explain in detail how the \$373.08 initial investment for the Foundation Rebar. Anchor Bolt Kit (SAP 243140) for the LED Lighting was determined.
- f. Please explain in detail how the \$37.87 initial investment for the Pole Wire/Splices/Misc. Components for the LED Lighting was determined.
- g. Please explain in detail how the \$63 initial investment for the UG Wire@150' - Source To Pole @.42/FT for the LED Lighting was determined.
- h. Please explain in detail how the \$1,067.87 initial investment for the Installation Cost (Labor) for the LED Lighting was determined.
- i. Please explain in detail how the initial investments for the Overhead (Stores & Engr.) for the LED Lighting were determined.
- j. Please explain in detail how the \$73.28 Fixture Replacement Cost for the LED Lighting was determined.
- k. Please explain in detail how the \$19.95 Transportation Cost for the LED Lighting was determined.
- l. Please explain in detail how the \$94.89 Labor Cost/hr for the LED Lighting was determined.
- m. Please explain in detail how the \$109.13 Replacement Cost (Labor) for the LED Lighting was determined.
- n. Please explain in detail how the \$13.84 Overhead (Store) for the LED Lighting was determined.

ANSWER:

- a. The initial investment for Luminaires for the LED lighting was determined by taking the cost of the initial investment of material, labor cost, and the overhead factors. The total initial investments for material and labor cost were the result of complete contract negotiations with the respective CenterPoint Houston vendors, added with the overhead factors after applied accordingly as shown in response COH09-11 (c)and (d).
- b. The \$36.64 initial investment for the Photovol TAIC Electric Relay (PER) for the LED Lighting was determined by taking the moving average price (MAP) from the test year 2018 and applying the number of relays required for initial installation (2). The moving average price is determined by taking the average of each individual unit purchase price over the history of the part and averaging them to produce the MAP.
- c. The \$150.96 initial investment for the Mounting Bracket/ARM (8' Arm) for the LED Lighting was determined by the moving average price (MAP) from the test year 2018. The moving average price is determined by taking the average of each individual unit purchase price over the history of the part and averaging them to produce the MAP.
- d. The \$674 initial investment for the 30' Base Plate Type Pole for the LED Lighting was determined by the moving average price (MAP) from the test year 2018. The moving average

price is determined by taking the average of each individual unit purchase price over the history of the part and averaging them to produce the MAP.

- e. The \$373.08 initial investment for the Foundation Rebar. Anchor Bolt Kit (Corrected: SAP 243162) for the LED Lighting was determined by the moving average price (MAP) from the test year 2018. The moving average price is determined by taking the average of each individual unit purchase price over the history of the part and averaging them to produce the MAP.
- f. The \$37.87 initial investment for the Pole Wire/Splices/Misc. Components for the LED Lighting was determined by the actual costs of the Pole Wire/Splices/Misc. Components in the test year 2018.
- g. The \$63 initial investment for the UG Wire@150' - Source to Pole @.42/FT for the LED Lighting was determined by the actual costs of the UG Wire in the test year 2018.
- h. The \$1,067.87 initial investment for the Installation Cost (Labor) for the LED Lighting was determined by the total labor required to install the base plate foundation mounted type pole with 150' of bored underground service conductor. The total labor cost was determined by the rates designated because of complete contract negotiations with the respective CenterPoint Houston vendor.
- i. The Overhead (stores & engineering/construction) cost is included in the initial total investment cost of each LED street light type because the Overhead is added to the purchase price of plant when it is capitalized. The Overhead initial investment cost for LED lighting is the result of applying the Test Year 2018 engineering/construction overhead factor and stores overhead factor to the established Test Year 2018 initial investment material and labor cost for each lamp type accordingly. [Please see response COH09-11 (c) and (d)].
- j. The O&M fixture replacement cost \$73.28 for LED Lighting was determined using the Test Year 2018 initial investment material cost for LED Photovoltaic Electric Relay ("PER") and applying the estimated number of occurrences (two) which properly reflects the expense to replace an LED PER over the used and useful life of an existing LED installation.
- k. The O&M transportation cost consist of the expense associated with the use of a single bucket truck to maintain, repair, replace, and/or install a street light. The transportation cost is the result of the cost of a single bucket truck for one half manhour and applying the estimated number of occurrences (two) that properly reflect the transportation expense over the used and useful life of an existing LED installation.

Please see response COH09-12 attachment COH09-12 Assumptions for Cost Calculations at tab "Sheet 1" for a detailed explanation of the derivation of the \$19.95 transportation cost. It should be noted the Test Year 2018 average transportation cost per lamp type was applied to all street light types, based on the weighted average of the used and useful life of a High-Pressure Sodium and LED lamp, to provide a reasonable and conservative basis of the total transportation cost to service each lamp.

- l. The \$94.89 Labor Cost/hr for the LED Lighting was determined by complete contract negotiations with the respective CenterPoint Houston vendor.
- m. The O&M Replacement labor cost representative the cost of one service employee at one half manhour, and the coordination cost associated with the service dispatch for LED lighting, then applying the estimated number of occurrences (two) to properly reflect the O&M replacement labor expense to repair an LED over the used and useful life of an existing LED installation.

Due to a formula error in the WP/Streetlight Rate Design the Coordination cost factor should be \$0.89 resulting in the O&M replacement labor cost value of 96.67, this will be corrected in the filed ERRATA.

- n. The Overhead (Store) cost \$13.84 is the result of applying the Stores Overhead factor to the O&M fixture replacement cost to properly reflect the cost of stores. [Please see response COH09-11 (d) for explanation for store overhead rate factor.]

SPONSOR (PREPARER):

Matthew Troxle/Julienne Sugarek (Matthew Troxle, Julienne Sugarek)

RESPONSIVE DOCUMENTS:

None

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**CITY OF HOUSTON
REQUEST NO.: COH09-11**

QUESTION:

Please refer to Page 19 of 27 of WP/Streetlight Rate Design and answer the following questions:.

- a. Please explain in detail how the \$19.95 Transportation Costs (Truck w/ Single Bucket) was determined.
- b. Please explain in detail how the \$7.12 Coordination Cost was determined.
- c. Please explain in detail how the 17.29% Engineering/Construction Overhead Rate Factor was determined.
- d. Please explain in detail how the 18.88% Store Overhead Rate Factor was determined.

ANSWER:

- a. The transportation value \$19.95 is the Test Year 2018 average transportation cost per .the weighted average life of a lamp. The transportation portion of street lighting O&M cost is the average rate per hour for use of a single bucket truck to maintain, repair, replace, and install a street light. For further details, please see document COH09-12 Assumptions for Cost Calculations response COH09-12.
- b. The cost is composed of the Test Year 2018 average administrative labor cost per work order. The labor cost factor per work order should be \$0.89, the value will be corrected in an ERRATA. For further details, please see document COH09-12 Assumptions for Cost Calculations response COH09-12.
- c. The Engineering/Construction Overhead rate 17.29% was derived from the weighted average percentage over twelve months ending December 2018. For further details, please see document COH09-12 Assumptions for Cost Calculations response COH09-12. It should be noted that the same Engineering/Construction overhead percentage is applied consistently to all street light types.
- d. Please see document COH09-12 Stores Overhead 2018 for the analysis used to determine the Stores Overhead Rate Factor. It should be noted that the same stores overhead percentage is applied consistently to all street light types.

SPONSOR (PREPARER):

Matthew Troxle (Matthew Troxle)

RESPONSIVE DOCUMENTS:

None

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**CITY OF HOUSTON
REQUEST NO.: COH09-12**

QUESTION:

Please provide all of the workpapers supporting your responses and if any of the responses to Request for Information above contain data or information shown in spreadsheet format, please provide electronic versions of the spreadsheets.

ANSWER:

Please see attached documents supporting the responses for COH09-01 through 09-05 & 09-11.

SPONSOR (PREPARER):

Matthew Troxle (Matthew Troxle)

RESPONSIVE DOCUMENTS:

COH09-12 - Street Light Revenue Current vs Proposed.xlsx

COH09-12 COH Actual Revenue.xlsx

COH09-12 Stores Overhead 2018.xlsx

COH09-12 Assumptions for Cost Calculations.xlsx

2019 RATE CASE
CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
TARIFF COMP
YEAR ENDING 12/31/2018

City of Houston (excluding Parks and Recreation accounts)
ANNUAL NUMBER OF LAMPS

<u>Lamp Type</u>	<u>Lumen</u>	<u>Sched. A</u>	<u>Sched. B</u> ¹	<u>Sched. C</u>	<u>Sched. D</u>	<u>Sched. E</u>	<u>1 Sched. D & 4 Sched. A's</u>	<u>Total</u>
MV	22,600	156						
MV	7,800	96			12			
MV	4,200	120			1,716			
Total MV		372	0		1,728	0	0	2,100
HPS	50,000	936	48		2,136		0	
HPS	28,000	12,192	48	24	12,756	1,032	0	
HPS	15,000	13,752	12		4,476	384	0	
HPS	9,500	11,016	36		30,780	600	0	
HPS	6,000	24			264		0	
Total HPS		37,920	144	24	50,412	2,016	0	90,516
MH	32,200	12			2,076	1,368		
MH	19,475	1,680			5,088			
MH	12,900							
MH	7,900				4,716		480	
Total MH		1,692	0	0	11,880	1,368	480	15,420
LED	15,100	60			19,764	504		
LED	10,850	262,080	2,388	2,904	225,876	10,536		
LED	7,900	218,400	300		57,072	2,088		
LED	4,800	501,900	840		712,812	2,088		
LED	2,000							
Total LED		982,440	3,528	2,904	1,015,524	15,216	0	2,019,612
Total		1,022,424	3,672	2,928	1,079,544	18,600	480	2,127,648

Supplemental /Other Charges or Credits
Break-away Base

1 If no rate schedule for lamp type use schedule A for same lumen

2019 RATE CASE
CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
TARIFF COMP
YEAR ENDING 12/31/2018
SPONSOR: M. TROXLE

CURRENT PRICES - SLS -Cost Allocation Study

Lamp Type	Lumen	Sched. A	Sched. B ¹	Sched. C	Sched. D	Sched. E	1 Sched. D & 4 Sched. A's
MV	22,600	\$5 150000	\$17 750000	\$11 500000	\$19 750000	\$13 140000	N/A
MV	7,800	\$3 640000	N/A	N/A	\$15 890000	\$10 400000	N/A
MV	4,200	\$3 540000	\$16 910000	N/A	\$13 700000	N/A	N/A
HPS	50,000	\$7 930000	\$20 650000	\$14 010000	\$23 280000	\$15 500000	N/A
HPS	28,000	\$5 150000	\$17 750000	\$11 660000	\$19 750000	\$13 150000	N/A
HPS	15,000	\$3 640000	\$16 200000	\$10 770000	\$15 890000	\$10 400000	N/A
HPS	9,500	\$3 640000	\$16 200000	N/A	\$12 920000	\$8 880000	N/A
HPS	6,000	\$3 580000	\$16 130000	N/A	\$12 460000	N/A	N/A
MH	32,200	\$9 490000	N/A	N/A	\$23 940000	\$18 560000	N/A
MH	19,475	\$10 340000	N/A	N/A	\$26 430000	\$18 350000	N/A
MH	12,900	\$11 010000	N/A	N/A	\$23 520000	\$17 090000	N/A
MH	7,900	\$11 690000	N/A	N/A	\$23 290000	\$19 680000	\$14 010000
LED	15,100	\$7 930000	\$20 560000	\$14 010000	\$23 280000	\$15 500000	N/A
LED	10,850	\$5 150000	\$17 750000	\$11 660000	\$19 750000	\$13 150000	N/A
LED	7,900	\$3 640000	\$16 200000	\$10 770000	\$15 890000	\$10 400000	N/A
LED	4,800	\$3 640000	\$16 200000	N/A	\$12 920000	\$8 880000	N/A
LED	2,000	\$0 000000	N/A	N/A	\$0 000000	N/A	N/A

Supplemental Charges

Break-away Base per lamp \$1.09

¹ If no rate schedule for lamp type use schedule A for same lumen

2019 RATE CASE
CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
TARIFF COMP
TEST YEAR ENDING 12/31/2018
SPONSOR: M. TROXLE

CURRENT REVENUE - SLS

Lamp Type	Lumen	Sched. A	Sched. B¹	Sched. C	Sched. D	Sched. E	1 Sched. D & 4 Sched. A's	Total
MV	22,600	\$ 803.40	\$ -	\$ -	\$ -	\$ -	N/A	
MV	7,800	\$ 349.44	N/A	N/A	\$ 190.68	\$ -	N/A	
MV	4,200	\$ 424.80	\$ -	N/A	\$ 23,509.20	N/A	N/A	
Total MV		\$ 1,577.64	\$ -	\$ -	\$ 23,699.88	\$ -	\$ -	\$ 25,277.52
HPS	50,000	\$ 7,422.48	\$ 991.20	\$ -	\$ 49,726.08	\$ -	N/A	
HPS	28,000	\$ 62,788.80	\$ 852.00	\$ 279.84	\$ 251,931.00	\$ 13,570.80	N/A	
HPS	15,000	\$ 50,057.28	\$ 194.40	\$ -	\$ 71,123.64	\$ 3,993.60	N/A	
HPS	9,500	\$ 40,098.24	\$ 583.20	N/A	\$ 397,677.60	\$ 5,328.00	N/A	
HPS	6,000	\$ 85.92	\$ -	N/A	\$ 3,289.44	N/A	N/A	
Total HPS		\$ 160,452.72	\$ 2,620.80	\$ 279.84	\$ 773,747.76	\$ 22,892.40	\$ -	\$ 959,993.52
MH	32,200	\$ 113.88	N/A	N/A	\$ 49,699.44	\$ 25,390.08	N/A	
MH	19,475	\$ 17,371.20	N/A	N/A	\$ 134,475.84	\$ -	N/A	
MH	12,900	\$ -	N/A	N/A	\$ -	\$ -	N/A	
MH	7,900	\$ -	N/A	N/A	\$ 109,835.64	\$ -	\$ 6,724.80	
Total MH		\$ 17,485.08	\$ -	\$ -	\$ 294,010.92	\$ 25,390.08	\$ 6,724.80	\$ 343,610.88
LED	15,100	\$ 475.80	\$ -	\$ -	\$ 460,105.92	\$ 7,812.00	N/A	
LED	10,850	\$ 1,349,712.00	\$ 42,387.00	\$ 33,860.64	\$ 4,461,051.00	\$ 138,548.40	N/A	
LED	7,900	\$ 794,976.00	\$ 4,860.00	\$ -	\$ 906,874.08	\$ 21,715.20	N/A	
LED	4,800	\$ 1,826,916.00	\$ 13,608.00	N/A	\$ 9,209,531.04	\$ 18,541.44	N/A	
LED	2,000	\$ -	N/A	N/A	\$ -	N/A	N/A	
Total LED		\$ 3,972,079.80	\$ 60,855.00	\$ 33,860.64	\$ 15,037,562.04	\$ 186,617.04	\$ -	\$ -
Total		\$ 4,151,595.24	\$ 63,475.80	\$ 34,140.48	\$ 16,129,020.60	\$ 234,899.52	\$ 6,724.80	\$ 20,619,856

Supplemental Charges

Break-away Base Revenue

\$ -

Total Current Revenue - SLS

\$ 20,619,856

2019 RATE CASE
CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
TARIFF COMP
TEST YEAR ENDING 12/31/2018
SPONSOR: M. TROXLE

PROPOSED PRICES - SLS

<u>Lamp</u> <u>Type</u>	<u>Lumen</u>	1 Sched. D & 4						
		<u>Sched. A</u>	<u>Sched. B</u>	<u>Sched. C</u>	<u>Sched. D</u>	<u>Sched. E</u>	<u>Sched. A's</u>	
MV	22,600	\$ 4.43	\$ 18.93	N/A	\$ 13.20	\$ 11.78	N/A	
MV	7,800	\$ 3.88	N/A	N/A	\$ 12.64	N/A	N/A	
MV	4,200	\$ 3.90	\$ 18.45	N/A	\$ 12.67	N/A	N/A	
HPS	50,000	\$ 4.40	\$ 18.90	N/A	\$ 13.17	\$ 11.75	N/A	
HPS	28,000	\$ 4.27	\$ 18.77	\$ 10.33	\$ 13.04	\$ 11.62	N/A	
HPS	15,000	\$ 4.15	\$ 18.64	\$ 10.20	\$ 12.92	\$ 11.50	N/A	
HPS	9,500	\$ 4.13	\$ 18.59	N/A	\$ 12.90	\$ 11.48	N/A	
HPS	6,000	\$ 4.09	\$ 18.59	N/A	\$ 12.86	N/A	N/A	
MH	32,200	\$ 5.41	N/A	N/A	\$ 19.43	\$ 16.00	N/A	
MH	19,475	\$ 10.00	N/A	N/A	\$ 18.62	\$ 15.17	N/A	
MH	12,900	\$ 8.00	N/A	N/A	\$ 16.70	\$ 14.33	N/A	
MH	7,900	\$ 7.30	N/A	N/A	\$ 16.00	\$ 13.63	\$ 9.04	
LED	15,100	\$ 5.22	N/A	N/A	\$ 7.01	\$ 25.73	N/A	
LED	10,850	\$ 4.79	\$ 19.24	\$ 22.27	\$ 13.58	\$ 12.44	N/A	
LED	7,900	\$ 4.39	\$ 18.84	\$ 10.73	\$ 13.18	\$ 12.03	N/A	
LED	4,800	\$ 3.94	\$ 18.39	N/A	\$ 12.73	\$ 11.59	N/A	
LED	2,000	\$ -	N/A	N/A	\$ -	N/A	N/A	

Supplemental Charges

Break-away Base per lamp \$1.03

2019 RATE CASE
CENTERPOINT ENERGY HOUSOTN ELECTRIC, LLC
TARIFF COMP
TEST YEAR ENDING 12/31/2018
SPONSOR: M. TROXLE

PROPOSED REVENUE - SLS

Lamp Type	Lumen	Sched. A	Sched. B	Sched. C	Sched. D	Sched. E	1 Sched. D & 4 Sched. A's	Total
MV	22,600	\$ 691	\$ -	N/A	\$ -	\$ -	N/A	
MV	7,800	\$ 372	N/A	N/A	\$ 152	N/A	N/A	
MV	4,200	\$ 468	\$ -	N/A	\$ 21,744	N/A	N/A	
Total MV		\$ 1,532	\$ -	\$ -	\$ 21,896	\$ -		\$ 23,428
HPS	50,000	\$ 4,120	\$ 907	N/A	\$ 28,135	\$ -	N/A	
HPS	28,000	\$ 52,083	\$ 901	\$ 248	\$ 166,356	\$ 11,996	N/A	
HPS	15,000	\$ 57,018	\$ 224	\$ -	\$ 57,810	\$ 4,415	N/A	
HPS	9,500	\$ 45,467	\$ 669	N/A	\$ 396,965	\$ 6,888	N/A	
HPS	6,000	\$ 98	\$ -	N/A	\$ 3,395	N/A	N/A	
Total HPS		\$ 158,786	\$ 2,701	\$ 248	\$ 652,662	\$ 23,300		\$ 837,697
MH	32,200	\$ 65	N/A	N/A	\$ 40,341	\$ 21,885	N/A	
MH	19,475	\$ 16,804	N/A	N/A	\$ 94,747	\$ -	N/A	
MH	12,900	\$ -	N/A	N/A	\$ -	\$ -	N/A	
MH	7,900	\$ -	N/A	N/A	\$ 75,438	\$ -	\$ 4,339	
Total MH		\$ 16,869	\$ -	\$ -	\$ 210,527	\$ 21,885	\$ 4,339	\$ 253,619
LED	15,100	\$ 313	N/A	N/A	\$ 138,456	\$ 12,968	N/A	
LED	10,850	\$ 1,255,815	\$ 45,948	\$ 64,686	\$ 3,067,670	\$ 131,021	N/A	
LED	7,900	\$ 958,362	\$ 5,651	\$ -	\$ 752,072	\$ 25,123	N/A	
LED	4,800	\$ 1,978,074	\$ 15,448	N/A	\$ 9,074,569	\$ 24,190	N/A	
LED	2,000	\$ -	N/A	N/A	\$ -	N/A	N/A	
Total LED		\$ 4,192,563	\$ 67,047	\$ 64,686	\$ 13,032,767	\$ 193,302	\$ -	\$ 17,550,366
Total		\$ 4,369,750	\$ 69,748	\$ 64,934	\$ 13,917,852	\$ 238,487	\$ 4,339	\$ 18,665,110
Supplemental Charges								
Break-away Base Revenue								\$ -
Total Proposed Revenue - SLS								\$ 18,665,110

2019 RATE CASE
CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
TARIFF COMP
TEST YEAR ENDING 12/31/2018
SPONSOR: M. TROXLE

PROPOSED CHANGE IN UNIT CHARGES - SLS (Weighted Average taken for current prices)

Lamp Type	Lumen	Sched. A	Sched. B	Sched. C	Sched. D	Sched. E	1 Sched. D & 4 Sched. A's
MV	22,600	\$ (0.72)	\$ 1.18	N/A	\$ (6.55)	\$ (1.36)	
MV	7,800	\$ 0.24	N/A	N/A	\$ (3.25)	N/A	
MV	4,200	\$ 0.36	\$ 1.54	N/A	\$ (1.03)	N/A	
HPS	50,000	\$ (3.53)	\$ (1.75)	N/A	\$ (10.11)	\$ (3.75)	
HPS	28,000	\$ (0.88)	\$ 1.02	\$ (1.33)	\$ (6.71)	\$ (1.53)	
HPS	15,000	\$ 0.51	\$ 2.44	\$ (0.57)	\$ (2.97)	\$ 1.10	
HPS	9,500	\$ 0.49	\$ 2.39	N/A	\$ (0.02)	\$ 2.60	
HPS	6,000	\$ 0.51	\$ 2.46	N/A	\$ 0.40	N/A	
MH	32,200	\$ (4.08)	N/A	N/A	\$ (4.51)	\$ (2.56)	
MH	19,475	\$ (0.34)	N/A	N/A	\$ (7.81)	\$ (3.18)	
MH	12,900	\$ (3.01)	N/A	N/A	\$ (6.82)	\$ (2.76)	
MH	7,900	\$ (4.39)	N/A	N/A	\$ (7.29)	\$ (6.05)	\$ (4.97)
LED	15,100	\$ (2.71)	N/A	N/A	\$ (16.27)	\$ 10.23	
LED	10,850	\$ (0.36)	\$ 1.49	\$ 10.61	\$ (6.17)	\$ (0.71)	
LED	7,900	\$ 0.75	\$ 2.64	\$ (0.04)	\$ (2.71)	\$ 1.63	
LED	4,800	\$ 0.30	\$ 2.19	N/A	\$ (0.19)	\$ 2.71	
LED	2,000	\$ -	N/A	N/A	\$ -	N/A	

Supplemental Charges

Break-away Base

\$ (0.06)

Total - SLS

2019 RATE CASE
CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
TARIFF COMP
TEST YEAR ENDING 12/31/2018
SPONSOR: M. TROXLE

PERCENT INCREASE/DECREASE IN REVENUE - SLS

Lamp Type	Lumen	Sched. A	Sched. B	Sched. C	Sched. D	Sched. E	1 Sched. D & 4 Sched. A's	Total
MV	22,600	-13.95%	N/A	N/A	N/A	N/A		
MV	7,800	6.46%	N/A	N/A	-20.42%	N/A		
MV	4,200	10.22%	New	N/A	-7.51%	N/A		
Total MV								-7.32%
HPS	50,000	-44.49%	-8.48%	N/A	-43.42%	N/A		
HPS	28,000	-17.05%	5.74%	-11.44%	-33.97%	-11.60%		
HPS	15,000	13.91%	15.08%	N/A	-18.72%	10.56%		
HPS	9,500	13.39%	New	N/A	-0.18%	29.28%		
HPS	6,000	14.28%	New	N/A	3.22%	N/A		
Total HPS								-12.74%
MH	32,200	-43.03%	N/A	N/A	-18.83%	-13.81%		
MH	19,475	-3.27%	N/A	N/A	-29.54%	N/A		
MH	12,900	N/A	N/A	N/A	N/A	N/A		
MH	7,900	N/A	N/A	N/A	-31.32%	N/A	-35.47%	
Total MH								-26.19%
LED	15,100	-34.16%	N/A	N/A	-69.91%	66.00%		
LED	10,850	-6.96%	8.40%	91.04%	-31.23%	-5.43%		
LED	7,900	20.55%	16.28%	N/A	-17.07%	15.69%		
LED	4,800	8.27%	13.52%	N/A	-1.47%	30.46%		
LED	2,000	N/A	N/A	N/A	N/A	N/A		
Total								-9.48%
Supplemental Charges								
Break-away Base								#DIV/0!
Total - SLS								-9.48%

**2019 RATE CASE
CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
TARIFF COMP
YEAR ENDING 12/31/2018**

City of Houston (includes Parks and Recreation accounts)
ANNUAL NUMBER OF LAMPS

<u>Lamp Type</u>	<u>Lumen</u>	<u>Sched. A</u>	<u>Sched. B ¹</u>	<u>Sched. C</u>	<u>Sched. D</u>	<u>Sched. E</u>	<u>1 Sched. D & 4 Sched A's</u>	<u>Total</u>
MV	22,600	156						
MV	7,800	96			12			
MV	4,200	120			1,716			
Total MV		372	0		1,728	0	0	2,100
HPS	50,000	936	48		2,136		0	
HPS	28,000	12,192	48	24	13,872	1,032	0	
HPS	15,000	13,752	12		4,584	408	0	
HPS	9,500	11,052	36		32,928	888	0	
HPS	6,000	24			264		0	
Total HPS		37,956	144	24	53,784	2,328	0	94,236
MH	32,200	1,188			2,076	1,368		
MH	19,475	1,680			5,088			
MH	12,900							
MH	7,900				4,908		480	
Total MH		2,868	0	0	12,072	1,368	480	16,788
LED	15,100	60			19,764	504		
LED	10,850	262,080	2,388	2,904	226,260	10,896		
LED	7,900	218,400	300		57,072	2,088		
LED	4,800	501,900	840		713,064	2,088		
LED	2,000							
Total LED		982,440	3,528	2,904	1,016,160	15,576	0	2,020,608
Total		1,023,636	3,672	2,928	1,083,744	19,272	480	2,133,732

Supplemental /Other Charges or Credits

Break-away Base

1 If no rate schedule for lamp type use schedule A for same lumen

**2019 RATE CASE
CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
TARIFF COMP
YEAR ENDING 12/31/2018
SPONSOR: M. TROXLE**

CURRENT PRICES - SLS -Cost Allocation Study

Lamp Type	Lumen	Sched. A	Sched. B ¹	Sched. C	Sched. D	Sched. E	1 Sched. D & 4 Sched. A's
MV	22,600	\$5 150000	\$17 750000	\$11 500000	\$19 750000	\$13 140000	N/A
MV	7,800	\$3 640000	N/A	N/A	\$15 890000	\$10 400000	N/A
MV	4,200	\$3 540000	\$16 910000	N/A	\$13 700000	N/A	N/A
HPS	50,000	\$7 930000	\$20 650000	\$14 010000	\$23 280000	\$15 500000	N/A
HPS	28,000	\$5 150000	\$17 750000	\$11 660000	\$19 750000	\$13 150000	N/A
HPS	15,000	\$3 640000	\$16 200000	\$10 770000	\$15 890000	\$10 400000	N/A
HPS	9,500	\$3 640000	\$16 200000	N/A	\$12 920000	\$8 880000	N/A
HPS	6,000	\$3 580000	\$16 130000	N/A	\$12 460000	N/A	N/A
MH	32,200	\$9 490000	N/A	N/A	\$23 940000	\$18 560000	N/A
MH	19,475	\$10 340000	N/A	N/A	\$26 430000	\$18 350000	N/A
MH	12,900	\$11 010000	N/A	N/A	\$23 520000	\$17 090000	N/A
MH	7,900	\$11 690000	N/A	N/A	\$23 290000	\$19 680000	\$14 010000
LED	15,100	\$7 930000	\$20 560000	\$14 010000	\$23 280000	\$15 500000	N/A
LED	10,850	\$5 150000	\$17 750000	\$11 660000	\$19 750000	\$13 150000	N/A
LED	7,900	\$3 640000	\$16 200000	\$10 770000	\$15 890000	\$10 400000	N/A
LED	4,800	\$3 640000	\$16 200000	N/A	\$12 920000	\$8 880000	N/A
LED	2,000	\$0 000000	N/A	N/A	\$0 000000	N/A	N/A

Supplemental Charges

Break-away Base per lamp \$1 09

1 If no rate schedule for lamp type use schedule A for same lumen

2019 RATE CASE
CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
TARIFF COMP
TEST YEAR ENDING 12/31/2018
SPONSOR: M. TROXLE

CURRENT REVENUE - SLS

Lamp Type	Lumen	Sched. A	Sched. B ¹	Sched. C	Sched. D	Sched. E	1 Sched. D & 4 Sched. A's	Total
MV	22,600	\$ 803.40	\$ -	\$ -	\$ -	\$ -	N/A	
MV	7,800	\$ 349.44	N/A	N/A	\$ 190.68	\$ -	N/A	
MV	4,200	\$ 424.80	\$ -	N/A	\$ 23,509.20	N/A	N/A	
Total MV		\$ 1,577.64	\$ -	\$ -	\$ 23,699.88	\$ -	\$ -	\$ 25,277.52
HPS	50,000	\$ 7,422.48	\$ 991.20	\$ -	\$ 49,726.08	\$ -	N/A	
HPS	28,000	\$ 62,788.80	\$ 852.00	\$ 279.84	\$ 273,972.00	\$ 13,570.80	N/A	
HPS	15,000	\$ 50,057.28	\$ 194.40	\$ -	\$ 72,839.76	\$ 4,243.20	N/A	
HPS	9,500	\$ 40,229.28	\$ 583.20	N/A	\$ 425,429.76	\$ 7,885.44	N/A	
HPS	6,000	\$ 85.92	\$ -	N/A	\$ 3,289.44	N/A	N/A	
Total HPS		\$ 160,583.76	\$ 2,620.80	\$ 279.84	\$ 825,257.04	\$ 25,699.44	\$ -	\$ 1,014,440.88
MH	32,200	\$ 11,274.12	N/A	N/A	\$ 49,699.44	\$ 25,390.08	N/A	
MH	19,475	\$ 17,371.20	N/A	N/A	\$ 134,475.84	\$ -	N/A	
MH	12,900	\$ -	N/A	N/A	\$ -	\$ -	N/A	
MH	7,900	\$ -	N/A	N/A	\$ 114,307.32	\$ -	\$ 6,724.80	
Total MH		\$ 28,645.32	\$ -	\$ -	\$ 298,482.60	\$ 25,390.08	\$ 6,724.80	\$ 359,242.80
LED	15,100	\$ 475.80	\$ -	\$ -	\$ 460,105.92	\$ 7,812.00	N/A	
LED	10,850	\$ 1,349,712.00	\$ 42,387.00	\$ 33,860.64	\$ 4,468,635.00	\$ 143,282.40	N/A	
LED	7,900	\$ 794,976.00	\$ 4,860.00	\$ -	\$ 906,874.08	\$ 21,715.20	N/A	
LED	4,800	\$ 1,826,916.00	\$ 13,608.00	N/A	\$ 9,212,786.88	\$ 18,541.44	N/A	
LED	2,000	\$ -	N/A	N/A	\$ -	N/A	N/A	
Total LED		\$ 3,972,079.80	\$ 60,855.00	\$ 33,860.64	\$ 15,048,401.88	\$ 191,351.04	\$ -	\$ -
Total		\$ 4,162,886.52	\$ 63,475.80	\$ 34,140.48	\$ 16,195,841.40	\$ 242,440.56	\$ 6,724.80	\$ 20,705,510

Supplemental Charges

Break-away Base Revenue

\$ -

Total Current Revenue - SLS

\$ 20,705,510

2019 RATE CASE
CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
TARIFF COMP
TEST YEAR ENDING 12/31/2018
SPONSOR: M. TROXLE

PROPOSED PRICES - SLS

1 Sched. D # 4								
<u>Lamp Type</u>	<u>Lumen</u>	<u>Sched. A</u>	<u>Sched. B</u>	<u>Sched. C</u>	<u>Sched. D</u>	<u>Sched. E</u>	<u>Sched A's</u>	
MV	22,600	\$ 4.43	\$ 18.93	N/A	\$ 13.20	\$ 11.78		N/A
MV	7,800	\$ 3.88	N/A	N/A	\$ 12.64	N/A		N/A
MV	4,200	\$ 3.90	\$ 18.45	N/A	\$ 12.67	N/A		N/A
HPS	50,000	\$ 4.40	\$ 18.90	N/A	\$ 13.17	\$ 11.75		N/A
HPS	28,000	\$ 4.27	\$ 18.77	\$ 10.33	\$ 13.04	\$ 11.62		N/A
HPS	15,000	\$ 4.15	\$ 18.64	\$ 10.20	\$ 12.92	\$ 11.50		N/A
HPS	9,500	\$ 4.13	\$ 18.59	N/A	\$ 12.90	\$ 11.48		N/A
HPS	6,000	\$ 4.09	\$ 18.59	N/A	\$ 12.86	N/A		N/A
MH	32,200	\$ 5.41	N/A	N/A	\$ 19.43	\$ 16.00		N/A
MH	19,475	\$ 10.00	N/A	N/A	\$ 18.62	\$ 15.17		N/A
MH	12,900	\$ 8.00	N/A	N/A	\$ 16.70	\$ 14.33		N/A
MH	7,900	\$ 7.30	N/A	N/A	\$ 16.00	\$ 13.63	\$ 9.04	
LED	15,100	\$ 5.22	N/A	N/A	\$ 7.01	\$ 25.73		N/A
LED	10,850	\$ 4.79	\$ 19.24	\$ 22.27	\$ 13.58	\$ 12.44		N/A
LED	7,900	\$ 4.39	\$ 18.84	\$ 10.73	\$ 13.18	\$ 12.03		N/A
LED	4,800	\$ 3.94	\$ 18.39	N/A	\$ 12.73	\$ 11.59		N/A
LED	2,000	\$ -	N/A	N/A	\$ -	N/A		N/A

Supplemental Charges

Break-away Base per lamp \$1.03

2019 RATE CASE
CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
TARIFF COMP
TEST YEAR ENDING 12/31/2018
SPONSOR: M. TROXLE

PROPOSED REVENUE - SLS

Lamp Type	Lumen	Sched. A	Sched. B	Sched. C	Sched. D	Sched. E	1 Sched. D & 4 Sched. A's	Total
MV	22,600	\$ 691	\$ -	N/A	\$ -	\$ -	N/A	
MV	7,800	\$ 372	N/A	N/A	\$ 152	N/A	N/A	
MV	4,200	\$ 468	\$ -	N/A	\$ 21,744	N/A	N/A	
Total MV		\$ 1,532	\$ -	\$ -	\$ 21,896	\$ -		\$ 23,428
HPS	50,000	\$ 4,120	\$ 907	N/A	\$ 28,135	\$ -	N/A	
HPS	28,000	\$ 52,083	\$ 901	\$ 248	\$ 180,910	\$ 11,996	N/A	
HPS	15,000	\$ 57,018	\$ 224	\$ -	\$ 59,205	\$ 4,691	N/A	
HPS	9,500	\$ 45,616	\$ 669	N/A	\$ 424,668	\$ 10,194	N/A	
HPS	6,000	\$ 98	\$ -	N/A	\$ 3,395	N/A	N/A	
Total HPS		\$ 158,935	\$ 2,701	\$ 248	\$ 696,313	\$ 26,882		\$ 885,079
MH	32,200	\$ 6,423	N/A	N/A	\$ 40,341	\$ 21,885	N/A	
MH	19,475	\$ 16,804	N/A	N/A	\$ 94,747	\$ -	N/A	
MH	12,900	\$ -	N/A	N/A	\$ -	\$ -	N/A	
MH	7,900	\$ -	N/A	N/A	\$ 78,510	\$ -	\$ 4,339	
Total MH		\$ 23,226	\$ -	\$ -	\$ 213,598	\$ 21,885	\$ 4,339	\$ 263,048
LED	15,100	\$ 313	N/A	N/A	\$ 138,456	\$ 12,968	N/A	
LED	10,850	\$ 1,255,815	\$ 45,948	\$ 64,686	\$ 3,072,886	\$ 135,498	N/A	
LED	7,900	\$ 958,362	\$ 5,651	\$ -	\$ 752,072	\$ 25,123	N/A	
LED	4,800	\$ 1,978,074	\$ 15,448	N/A	\$ 9,077,777	\$ 24,190	N/A	
LED	2,000	\$ -	N/A	N/A	\$ -	N/A	N/A	
Total LED		\$ 4,192,563	\$ 67,047	\$ 64,686	\$ 13,041,191	\$ 197,779	\$ -	\$ 17,563,266
Total		\$ 4,376,256	\$ 69,748	\$ 64,934	\$ 13,972,998	\$ 246,546	\$ 4,339	\$ 18,734,821
Supplemental Charges								
Break-away Base Revenue							\$	-
Total Proposed Revenue - SLS							\$	18,734,821

2019 RATE CASE
CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
TARIFF COMP
TEST YEAR ENDING 12/31/2018
SPONSOR: M. TROXLE

PROPOSED CHANGE IN UNIT CHARGES - SLS (Weighted Average taken for current prices)

Lamp Type	Lumen	Sched. A	Sched. B	Sched. C	Sched. D	Sched. E	1 Sched. D & 4 Sched A's
MV	22,600	\$ (0 72)	\$ 1 18	N/A	\$ (6 55)	\$ (1 36)	
MV	7,800	\$ 0 24	N/A	N/A	\$ (3 25)	N/A	
MV	4,200	\$ 0 36	\$ 1 54	N/A	\$ (1 03)	N/A	
HPS	50,000	\$ (3 53)	\$ (1 75)	N/A	\$ (10 11)	\$ (3 75)	
HPS	28,000	\$ (0 88)	\$ 1 02	\$ (1 33)	\$ (6 71)	\$ (1 53)	
HPS	15,000	\$ 0 51	\$ 2 44	\$ (0 57)	\$ (2 97)	\$ 1 10	
HPS	9,500	\$ 0 49	\$ 2 39	N/A	\$ (0 02)	\$ 2 60	
HPS	6,000	\$ 0 51	\$ 2 46	N/A	\$ 0 40	N/A	
MH	32,200	\$ (4 08)	N/A	N/A	\$ (4 51)	\$ (2 56)	
MH	19,475	\$ (0 34)	N/A	N/A	\$ (7 81)	\$ (3 18)	
MH	12,900	\$ (3 01)	N/A	N/A	\$ (6 82)	\$ (2 76)	
MH	7,900	\$ (4 39)	N/A	N/A	\$ (7 29)	\$ (6 05)	\$ (4 97)
LED	15,100	\$ (2 71)	N/A	N/A	\$ (16 27)	\$ 10 23	
LED	10,850	\$ (0 36)	\$ 1 49	\$ 10 61	\$ (6 17)	\$ (0 71)	
LED	7,900	\$ 0 75	\$ 2 64	\$ (0 04)	\$ (2 71)	\$ 1 63	
LED	4,800	\$ 0 30	\$ 2 19	N/A	\$ (0 19)	\$ 2 71	
LED	2,000	\$ -	N/A	N/A	\$ -	N/A	

Supplemental Charges

Break-away Base

\$ (0 06)

Total - SLS

2019 RATE CASE
CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
TARIFF COMP
TEST YEAR ENDING 12/31/2018
SPONSOR: M. TROXLE

PERCENT INCREASE/DECREASE IN REVENUE - SLS

Lamp Type	Lumen	Sched. A	Sched. B	Sched. C	Sched. D	Sched. E	1 Sched. D & 4 Sched. A's	Total
MV	22,600	-13.95%	N/A	N/A	N/A	N/A		
MV	7,800	6.46%	N/A	N/A	-20.42%	N/A		
MV	4,200	10.22%	New	N/A	-7.51%	N/A		
Total MV								-7.32%
HPS	50,000	-44.49%	-8.48%	N/A	-43.42%	N/A		
HPS	28,000	-17.05%	5.74%	-11.44%	-33.87%	-11.60%		
HPS	15,000	13.91%	15.08%	N/A	-18.72%	10.56%		
HPS	9,500	13.39%	New	N/A	-0.18%	29.28%		
HPS	6,000	14.28%	New	N/A	3.22%	N/A		
Total HPS								-12.75%
MH	32,200	-43.03%	N/A	N/A	-18.83%	-13.81%		
MH	19,475	-3.27%	N/A	N/A	-29.54%	N/A		
MH	12,900	N/A	N/A	N/A	N/A	N/A		
MH	7,900	N/A	N/A	N/A	-31.32%	N/A	-35.47%	
Total MH								-26.78%
LED	15,100	-34.16%	N/A	N/A	-69.91%	66.00%		
LED	10,850	-8.96%	8.40%	91.04%	-31.23%	-5.43%		
LED	7,900	20.55%	16.28%	N/A	-17.07%	15.69%		
LED	4,800	8.27%	13.52%	N/A	-1.47%	30.46%		
LED	2,000	N/A	N/A	N/A	N/A	N/A		
Total								-9.52%
<u>Supplemental Charges</u>								
Break-away Base							#DIV/0!	
Total - SLS								-9.52%

Cost Assumptions for Lighting Services

Avg Installation Cost Underground Street Light	\$ 1,804.21
2018 Total Installations/Repairs (Events) (460 a day)	119,600
2018 Total Pole Installations	8,829

Transportation Calculation

2018	
1/2 Ton Truck Annual Avg. Transportation Cost	\$ 5,186.00
Annual Service hours (8hrs * 260 work days)	2,080
Average Fuel Cost Per Hour	\$ 2.49
Weighted Average Life of Lamp	8.00
Total Cost Over the Life of the Lamp	\$ 41,488.00
Total Transportation Cost for the Life of Lamp/per hour	\$ 19.95

Coordination Support - Distribution project Coordinator or Dispatch Coordinatory for Work Orders

I used the labor cost associated with Central Dispatching \$0.89/order - Source is Discretionary Charges

Central Dispatching per order	\$ 0.89
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Construction Overhead Rate

13090051- DISTRIBUTION PLANT- AUC 7096527.0			
CURRENT MONTH	ESTIMATED AUC BALANCE * (Eligible for COH)	201800 000% RATE	
	(a)	(b)	
CARRYFWD FROM 2017			
JANUARY - Actual	27,501,094.22	10.645%	Jan-18 0.084 10.645% 0.8942%
FEBRUARY Actual	27,202,965.05	10.645%	Feb-18 0.084 10.645% 0.8942%
MARCH Actual	30,781,353.41	10.645%	Mar-18 0.084 10.645% 0.8942%
APRIL - Actual	32,655,626.52	19.286%	Apr-18 0.084 19.286% 1.6200%
MAY - Actual	37,675,239.24	19.286%	May-18 0.083 19.286% 1.6007%
JUNE - Actual	27,957,540.55	19.286%	Jun-18 0.083 19.286% 1.6007%
JULY - Actual	38,054,731.56	19.654%	Jul-18 0.083 19.654% 1.6313%
AUGUST - Actual	41,681,245.14	19.654%	Aug-18 0.083 19.654% 1.6313%
SEPTEMBER - Actual	29,895,128.32	19.654%	Sep-18 0.083 19.654% 1.6313%
OCTOBER Actual	36,958,800.14	19.653%	Oct-18 0.083 19.653% 1.6312%
NOVEMBER - Forecast	36,958,800.14	19.653%	Nov-18 0.083 19.653% 1.6312%
DECEMBER - Forecast	36,958,800.14	19.653%	Dec-18 0.083 19.653% 1.6312%
			Weighted Average
			Average 17.310%

Streetlight Services Lighting

Lamp Type	Weight	Number of Years	
HPS 70W	0.1	6	0.6
HPS 100W	0.1	6	0.6
HPS 150W	0.1	6	0.6
HPS 250W	0.1	6	0.6
HPS 400W	0.1	6	0.6
LED 20W	0.1	10	1
LED 45W	0.1	10	1
LED 95W	0.1	10	1
LED 115W	0.1	10	1
LED 180W	0.1	10	1
Weighted Average			8

CenterPoint Houston
City of Houston Municipal Streetlight Accounts by Lamp Types
Billed Revenues: Base Transmission and Distribution Charges
Test Year: 2018

Lamp Type	Lumen	<u>Sched. A</u>	<u>Sched. B</u>	<u>Sched. C</u>	<u>Sched. D</u>	<u>Sched. E</u>	<u>1 Sched. D & 4 Sched A's</u>	<u>Total</u>
MV	22,600	\$ 803 40	\$ -	\$ -	\$ 180 38	\$ -	\$ -	
MV	7,800	\$ 400 40	\$ -	\$ -	\$ 190 68	\$ -	\$ -	
MV	4,200	\$ 488 52	\$ -	\$ -	\$ 24,536 69	\$ -	\$ -	
Total MV		\$ 1,692 32	\$ -	\$ -	\$ 24,907 75	\$ -	\$ -	\$ 26,600 07
HPS	50,000	\$ 7,795 19	\$ 991 19	\$ -	\$ 53,031 85	\$ 70 27	\$ -	
HPS	28,000	\$ 73,418 40	\$ 1,065 00	\$ 1,445 84	\$ 872,061 24	\$ 33,821 80	\$ -	
HPS	15,000	\$ 56,467 33	\$ 291 60	\$ -	\$ 150,483 61	\$ 11,793 60	\$ -	
HPS	9,500	\$ 43,778 28	\$ 583 20	\$ -	\$ 627,989 55	\$ 9,181 93	\$ -	
HPS	6,000	\$ 89 49	\$ -	\$ -	\$ 7,077 28	\$ -	\$ -	
Total HPS		\$ 181,548 69	\$ 2,930 99	\$ 1,445 84	\$ 1,710,643 53	\$ 54,867 60	\$ -	\$ 1,951,436 65
MH	32,200	\$ 11,350 04	\$ -	\$ -	\$ 101,673 18	\$ 25,390 08	\$ -	
MH	19,475	\$ 17,402 22	\$ -	\$ -	\$ 149,012 34	\$ -	\$ -	
MH	7,900	\$ -	\$ -	\$ -	\$ 113,818 23	\$ -	\$ 6,724 88	
Total MH		\$ 28,752 26	\$ -	\$ -	\$ 364,503 75	\$ 25,390 08	\$ 6,724 88	\$ 425,370 97
LED	15,100	\$ 439 70	\$ -	\$ -	\$ 395,404 22	\$ 8,834 89	\$ -	
LED	10,850	\$ 1,344,400 93	\$ 42,546 75	\$ 33,883 97	\$ 3,955,358 47	\$ 122,137 20	\$ -	
LED	7,900	\$ 788,737 05	\$ 4,762 81	\$ -	\$ 828,711 20	\$ 14,372 79	\$ -	
LED	4,800	\$ 1,817,673 72	\$ 13,608 01	\$ -	\$ 8,985,024 12	\$ 18,097 45	\$ -	
Total LED		\$ 3,951,251 40	\$ 60,917 57	\$ 33,883 97	\$ 14,164,498 01	\$ 163,442 33	\$ -	\$ 18,373,993 28
Total		\$ 4,163,244.67	\$ 63,848.56	\$ 35,329.81	\$ 16,264,553.04	\$ 243,700.01	\$ 6,724.88	\$ 20,777,400.97

CenterPoint Energy - Houston Electric
2018 Stores Overhead Rate Distribution
4th Quarter Rates

	Warehousing Cost	Residual (over)/under Allocation	Total Warehousing	Materials Cost	4th Quarter Rate %	Crediting CC	3rd Quarter Rate %
Transmission	573,616	586,385	1,160,002	12,056,845	9.821%	101104	8.419%
Substation	336,992	(327,984)	9,008	10,550,157	0.085%	101131	8.519%
South Houston Service Area	488,507	124,234	612,741	1,687,454	36.312%	101103	35.351%
Baytown/Channelview Service Ar	427,571	64,570	492,142	1,841,160	26.730%	101123	11.577%
Galveston Service Area	206,919	109,662	316,582	1,974,625	16.032%	101105	33.143%
Greenspoint Service Area	701,944	113,054	814,998	1,915,938	42.538%	101126	26.886%
Humble Service Area	348,402	(59,742)	288,660	1,941,898	14.855%	101124	26.010%
Street Lights (60% Metering/Com	104,285	16,872	121,158	6,201,985	1.954%	101128	1.955%
Bellaire Service Area	466,895	60,920	527,815	2,348,381	22.476%	101111	29.681%
Cypress Service Area	559,410	193,293	752,703	2,377,387	31.661%	101119	20.210%
Sugarland Service Area	537,170	217,963	755,132	1,537,856	48.103%	101117	39.901%
Spring Branch Service Area	258,376	81,995	340,371	1,345,687	25.293%	101113	40.927%
H O Clarke Service Area	530,743	146,532	677,276	2,013,934	33.629%	101112	23.882%
Fort Bend/Wharton Service Area	305,351	45,197	350,548	1,493,697	23.466%	101114	20.474%
Katy/Sealy Service Area	431,592	(176,809)	254,782	2,425,638	10.504%	101115	14.948%
Major Underground	349,283	(42,884)	306,399	4,949,627	6.190%	101130	7.056%
Fleet (Purchasing Rate Only)							
Meter & Communications (40% di	69,524	11,248	80,772	4,134,657	1.954%	101128	1.955%
Telecom Warehouse	51,157	33,477	84,634	1,491,765	5.673%	101133	9.525%
	6,747,737.15	1,197,984.74	7,945,721.89	62,288,693.00			

Purchasing Rates

	Warehousing Cost	Residual (over)/under Allocation	Total Warehousing	Materials Cost	Purchasing Rate %		Purchasing Rate %
Purchasing	1,008,419	(187,063)	821,356	132,135,840	0.622%	101006	0.654%
Average					18.879%		19.004%

				Material Cost									
1st Qtr%	2nd Qtr%	3rd Qtr%	4th Qtr%	Cost Center	January	February	March	April	May	June	July	August	September
6.174%	4.030%	8.419%		101104	3,926,424.43	617,827.73	1,551,171.66	1,449,065.48	1,775,694.84	2,024,866.46	5,511,840.06	(537,329.71)	3,404,972.65
3.281%	5.091%	8.519%		101131	3,956,887.43	1,785,760.21	4,243,509.26	2,717,295.14	1,434,627.79	1,969,740.98	2,383,970.31	1,604,183.94	5,426,260.38
22.546%	42.508%	35.351%		101103	246,551.34	292,006.26	442,953.02	611,717.84	454,007.91	560,110.79	733,091.54	598,063.72	580,135.35
18.813%	20.299%	11.577%		101123	635,335.99	335,196.73	768,362.98	1,269,000.40	1,449,799.75	1,112,570.74	1,120,985.63	1,200,363.22	750,050.02
40.614%	31.396%	33.143%		101105	178,582.55	190,000.55	114,569.45	202,239.40	198,340.01	216,352.74	214,785.77	166,530.06	175,720.59
39.167%	33.857%	26.886%		101126	610,303.43	542,977.09	544,385.62	993,292.55	891,858.20	818,593.36	842,124.25	858,913.85	524,410.56
29.910%	4.988%	26.010%		101124	713,523.88	728,785.45	842,437.83	1,064,249.46	774,568.10	544,553.25	630,747.29	887,334.46	628,338.27
6.060%	4.852%	1.955%		101128	1,359,619.31	757,491.42	724,319.14	603,894.06	823,064.10	1,329,327.70	1,754,165.86	2,876,215.07	2,903,954.90
26.155%	32.615%	1.955%		101111	629,087.74	481,014.36	523,437.75	583,055.41	654,260.34	686,742.01	12,182,091.69	9,133,288.92	8,339,824.94
32.912%	23.022%	29.681%		101119	1,120,071.68	629,593.33	372,463.22	582,498.28	1,044,067.10	694,388.09	442,645.08	498,308.11	548,748.67
29.008%	44.590%	20.210%		101117	621,788.92	464,401.72	539,052.74	475,354.83	529,599.91	469,978.39	1,096,884.29	1,131,104.16	672,037.20
21.396%	30.723%	39.901%		101113	289,411.97	234,984.06	265,021.43	300,563.12	289,411.39	286,069.35	488,397.88	451,064.09	243,225.62
29.643%	12.609%	40.927%		101112	1,009,625.83	695,762.69	984,858.84	1,002,246.94	1,164,016.63	831,777.16	612,653.48	433,396.81	270,957.49
18.553%	11.877%	23.882%		101114	702,440.44	852,074.47	641,524.04	659,300.02	633,212.58	523,991.24	625,255.71	419,183.24	345,065.75
52.788%	1.500%	20.474%		101115	750,513.92	849,153.30	593,745.31	635,186.00	833,910.67	709,563.33	750,262.73	752,921.42	656,233.32
5.463%	6.094%	14.948%		101130	1,324,381.18	1,769,582.08	2,542,272.75	2,333,474.87	2,799,463.85	1,990,465.30	897,775.24	1,353,901.28	812,962.45
5.657%	13.397%	9.525%		101133	220,873.41	27,854.88	122,510.92	205,392.89	111,299.60	84,010.86	359,449.25	226,443.89	126,063.53
				Actuals	18,295,423.44	11,254,566.34	15,816,595.95	15,687,826.71	15,861,197.75	14,853,101.74	30,647,126.07	21,853,886.52	26,408,961.70
				Plan	14,167,891.28	16,048,616.96	25,994,450.97	18,102,123.55	19,500,169.74	23,130,270.32	19,244,484.66	19,577,188.09	17,097,037.22
				Variance	4,127,532.16	(4,794,050.62)	(10,177,855.02)	(2,414,296.84)	(3,638,971.98)	(8,277,168.58)	11,402,641.41	2,276,698.43	9,311,924.48
Actual Stores Overhead													
					January	February	March	April	May	June	July	August	September
				101103	55,588.40	65,836.84	99,869.87	260,026.46	192,987.78	238,089.55	259,155.27	211,421.57	205,083.71
				101104	242,400.11	38,148.13	95,762.49	58,394.22	71,556.68	81,597.76	464,021.52	(45,235.81)	286,652.11
				101105	72,529.13	77,166.41	46,530.99	63,495.02	62,270.77	67,926.04	71,186.26	55,192.91	58,238.92
				101111	164,538.40	125,809.69	136,905.56	190,162.32	213,385.66	223,979.49	238,119.04	178,525.17	163,015.61
				101112	299,280.94	206,243.25	291,938.32	126,372.76	146,770.21	104,878.32	250,739.98	177,375.81	110,894.46
				101113	61,923.41	50,277.86	56,704.74	92,340.72	88,914.62	87,887.86	194,876.87	179,980.22	97,050.07
				101114	130,325.27	158,087.19	119,023.32	78,306.46	75,208.00	62,235.55	149,321.21	100,107.76	82,407.30
				101115	396,183.55	448,253.60	313,428.06	9,527.79	12,508.66	10,643.45	153,611.42	154,155.77	134,359.51
				101117	180,367.55	134,712.92	156,367.57	213,959.42	236,147.15	209,562.08	221,674.98	228,590.65	135,815.45
				101119	368,640.38	207,213.10	122,585.89	134,105.45	240,369.96	159,865.24	131,380.39	147,901.59	162,872.73
				101123	119,523.77	63,059.51	144,549.72	257,591.73	294,291.81	225,838.40	129,776.31	138,965.84	86,833.16
				101124	213,414.76	217,979.49	251,972.88	53,083.97	38,634.63	27,161.91	164,058.05	230,796.65	163,431.46
				101126	239,038.40	212,668.60	213,220.28	336,295.56	301,953.29	277,148.27	226,411.93	230,925.95	140,992.03
				101128	82,392.93	45,903.98	43,893.74	29,300.94	39,935.07	64,498.98	34,288.06	52,311.03	56,762.58
				101130	72,351.85	96,673.48	138,886.10	142,206.02	170,604.20	121,302.42	134,197.79	202,378.67	121,520.13
				101131	129,823.10	58,589.72	139,226.99	138,338.65	73,037.51	100,280.35	203,094.74	136,663.33	462,272.93
				101133	12,494.01	1,575.65	6,930.00	27,516.01	14,910.55	11,254.74	34,237.08	21,568.49	12,007.39
					2,840,815.96	2,208,199.42	2,377,797.52	2,209,023.50	2,273,486.55	2,074,150.41	3,060,150.90	2,401,625.60	2,440,209.55

October	November	December	Total		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
				101104	6.174%	4.030%	0.084186	
				101131	3.781%	5.091%	0.085192	
				101103	22.546%	42.508%	0.35351	
				101123	18.813%	20.299%	0.11577	
				101105	40.614%	31.396%	0.331429	
				101126	39.167%	33.857%	0.268858	
				101124	29.910%	4.988%	0.260101	
				101111	26.155%	32.615%	0.019547	
				101119	32.917%	23.022%	0.296806	
				101117	29.008%	44.590%	0.202095	
				101113	21.396%	30.723%	0.399013	
				101112	29.643%	12.609%	0.409269	
				101114	18.553%	11.877%	0.238816	
				101115	52.788%	1.500%	0.204744	
				101130	5.463%	6.094%	0.149478	
				101128	6.060%	4.852%	0.019547	
				101133	5.657%	13.397%	0.095249	
			170,678,686.22	101006	0.785%	0.703%	0.006544	
			74,313,082.76					
			<u>(2,183,546.57)</u>					

October	November	December	
			101103 (205,083.71)
			101104 (286,652.11)
			101105 (58,238.92)
			101111 -163,015.61
			101112 (110,894.46)
			101113 (97,050.07)
			101114 (82,407.30)
			101115 (134,359.51)
			101117 (135,815.45)
			101119 (162,872.73)
			101123 (86,839.16)
			101124 (163,431.46)
			101126 (140,992.03)
			101128 (56,762.58)
			101130 (121,520.13)
			101131 (462,272.93)
			101133 (12,007.39)
			(2,480,209.55)

Residuals

Cost Center	Jan	Feb	Mar	Apr	May	Jun
101104	123,335.90	(87,783.13)	(57,375.23)	(133,562.69)	(159,092.52)	(130,241.36)
101131	26,381.12	(42,313.13)	10,996.90	5,587.40	(31,446.00)	(15,624.91)
101103	(108,849.09)	(84,771.98)	(61,080.74)	94,593.73	(24,016.72)	45,472.59
101123	(33,713.81)	(85,532.68)	14,915.30	110,361.39	105,576.64	65,450.81
101105	(1,083.31)	8,408.03	(23,560.00)	(7,840.24)	(8,081.99)	4,710.35
101126	1,197.17	4,090.34	(30,917.21)	79,953.45	(817.99)	26,605.11
101124	85,037.64	97,879.44	116,711.39	(80,264.75)	(104,318.88)	(111,910.47)
101128	43,281.73	2,067.92	(15,268.05)	(5,644.95)	(20,596.87)	16,265.87
101111	(8,505.89)	(17,235.68)	(52,833.73)	19,026.89	2,409.02	42,348.53
101119	179,466.84	42,841.38	(72,094.67)	(67,566.16)	20,578.71	(57,017.38)
101117	(36,630.32)	(44,564.46)	(52,889.82)	6,496.29	(28,577.31)	14,419.33
101113	(55,745.73)	(35,687.85)	(42,743.50)	(11,682.17)	(45,996.54)	(28,223.78)
101112	104,957.10	21,047.92	89,086.70	(94,723.16)	(68,513.75)	(90,872.16)
101114	18,135.72	67,891.16	26,436.50	(31,012.77)	(37,059.99)	(52,915.05)
101115	240,014.32	317,991.24	143,762.35	(148,146.20)	(176,330.74)	(140,889.94)
101130	(23,510.80)	(17,871.24)	(2,963.38)	19,865.93	38,306.93	4,896.76
101133	(8,482.34)	(12,904.27)	(9,219.52)	11,861.05	(4,504.26)	(7,230.73)
101006	65,569.54	(1,622.06)	43,206.70	(108,151.33)	153,359.14	16,469.94
	610,855.79	131,930.95	24,169.99	(340,848.29)	(389,123.12)	(398,286.49)

Jul	Aug	Sep	Total		
182,317.89	(326,068.13)	39,769.21	(548,700.06)	101006	(21,240.97)
91,662.57	(3,233.30)	323,658.79	365,669.44	101103	(32,186.29)
62,142.49	(32,186.29)	22,146.76	(86,549.25)	101104	(326,068.13)
(62,490.87)	(64,955.14)	(76,496.93)	(26,885.29)	101105	(35,715.24)
(3,191.41)	(35,715.24)	(5,623.20)	(71,977.01)	101111	(44,261.75)
(24,883.98)	(57,355.03)	(73,240.95)	(75,369.09)	101112	(59,720.13)
3,626.79	58,807.51	31,858.31	97,426.98	101113	77,494.71
(8,865.84)	(10,259.66)	8,584.68	9,564.83	101114	(24,516.57)
46,883.75	(44,261.75)	(11,066.07)	(23,234.93)	101115	(13,166.00)
(83,157.52)	(93,403.90)	(25,255.50)	(155,608.20)	101117	(6,029.63)
49.89	(6,029.63)	(32,551.36)	(180,277.39)	101119	(93,403.90)
104,362.43	77,494.71	(6,087.11)	(44,309.54)	101123	(64,955.14)
59,419.00	(59,720.13)	(69,528.72)	(108,847.20)	101124	58,807.51
38,106.67	(24,516.57)	(12,577.46)	(7,511.79)	101126	(57,355.03)
(7,557.08)	(13,166.00)	(1,183.46)	214,494.49	101128	(10,259.66)
24,162.10	53,061.13	(15,378.68)	80,568.75	101130	53,061.13
22,730.38	10,217.08	1,741.07	4,208.46	101131	(3,233.30)
117,781.12	(21,240.97)	(40,623.97)	224,748.11	101133	10,217.08
563,098.38	(592,531.31)	58,145.41	(332,588.69)		(592,531.31)

CC	Residual	Amount from Prior Year	Total	
101006	224,748.11	(37,685.17)	187,062.94	101006
101103	(86,549.25)	(37,685.17)	(124,234.42)	101103
101104	(548,700.06)	(37,685.17)	(586,385.23)	101104
101105	(71,977.01)	(37,685.17)	(109,662.18)	101105
101111	(23,234.93)	(37,685.17)	(60,920.10)	101111
101112	(108,847.20)	(37,685.17)	(146,532.37)	101112
101113	(44,309.54)	(37,685.17)	(81,994.71)	101113
101114	(7,511.79)	(37,685.17)	(45,196.96)	101114
101115	214,494.49	(37,685.17)	176,809.32	101115
101117	(180,277.39)	(37,685.17)	(217,962.56)	101117
101119	(155,608.20)	(37,685.17)	(193,293.37)	101119
101123	(26,885.29)	(37,685.17)	(64,570.46)	101123
101124	97,426.98	(37,685.17)	59,741.81	101124
101126	(75,369.09)	(37,685.17)	(113,054.26)	101126
101128	9,564.83	(37,685.17)	(28,120.34)	101128
101130	80,568.75	(37,685.17)	42,883.58	101130
101131	365,669.44	(37,685.17)	327,984.27	101131
101133	4,208.46	(37,685.17)	(33,476.71)	101133
	(332,588.69)	(678,333.11)	(1,010,921.80)	Grand Total
		(678,333.11)		(1,921,881.38)

<u>2017 Material Spend-Percentage of Actuals Spent by Month</u>					
	January	February	March	April	May
101104	2.18%	6.43%	10.96%	9.88%	9.00%
101131	9.88%	8.14%	14.81%	7.70%	4.74%
101103	7.19%	11.28%	11.41%	8.12%	7.40%
101123	5.58%	6.03%	13.88%	6.19%	11.79%
101105	4.66%	3.89%	5.53%	7.78%	4.72%
101126	7.64%	4.93%	9.43%	7.83%	8.77%
101124	5.41%	6.54%	8.13%	9.41%	7.71%
101128	5.15%	5.09%	9.79%	5.58%	7.02%
101111	8.08%	8.25%	8.09%	6.16%	8.87%
101119	8.97%	4.63%	6.70%	9.82%	5.67%
101117	9.62%	8.23%	10.61%	6.17%	8.56%
101113	7.48%	6.82%	11.08%	6.14%	9.32%
101112	5.34%	7.57%	7.60%	3.81%	9.49%
101114	8.21%	6.60%	11.42%	8.19%	8.68%
101115	3.32%	3.44%	6.00%	8.94%	10.80%
101130	7.95%	9.20%	11.62%	8.39%	13.05%
101133	0.57%	6.36%	22.86%	4.20%	5.12%

<u>Estimated Material Spend by Month</u>					
	January	February	March	April	May
101104	1,087,402.13	3,213,066.09	5,474,765.63	4,931,208.17	4,492,681.91
101131	3,354,700.56	2,761,125.00	5,025,844.49	2,614,196.43	1,607,683.07
101103	551,822.04	865,601.60	875,691.41	623,469.05	568,231.41
101123	529,725.27	572,822.79	1,318,323.01	587,608.02	1,120,013.12
101105	195,992.11	163,702.30	232,626.87	327,094.44	198,457.60
101126	645,673.51	416,961.70	797,267.68	661,923.88	741,038.15
101124	341,832.36	412,997.46	513,450.53	594,087.48	486,569.78
101128	1,766,792.82	1,745,098.55	3,357,583.53	1,914,623.20	2,408,898.67
101111	625,530.08	638,796.66	626,894.04	477,228.12	687,331.00
101119	787,671.70	406,109.74	587,975.44	862,408.42	497,397.54
101117	658,901.20	564,153.59	726,806.65	422,440.07	586,399.70
101113	400,347.72	364,987.50	592,722.74	328,543.58	498,286.30
101112	489,515.68	693,778.67	696,559.73	348,901.15	869,977.91
101114	568,407.78	457,238.63	790,521.53	566,798.79	601,173.87
101115	228,215.31	236,415.42	412,223.51	613,557.02	741,157.29
101130	1,906,066.62	2,207,846.28	2,787,276.19	2,011,742.42	3,130,928.49
101133	29,294.39	327,914.99	1,177,917.97	216,293.31	263,943.94
	14,167,891.28	16,048,616.96	25,994,450.97	18,102,123.55	19,500,169.74

June	July	August	September	October
12.33%	9.20%	8.09%	7.78%	9.39%
9.18%	0.53%	6.49%	7.45%	3.68%
8.22%	10.54%	8.53%	5.33%	9.67%
11.21%	8.10%	11.30%	6.53%	6.14%
7.04%	7.49%	8.65%	3.29%	10.88%
9.87%	11.30%	10.73%	6.84%	8.98%
8.84%	9.46%	8.81%	4.93%	12.56%
8.89%	9.12%	5.74%	13.50%	6.66%
7.77%	9.81%	7.61%	5.05%	13.07%
6.25%	9.14%	11.41%	10.33%	7.60%
8.27%	9.53%	11.81%	4.77%	7.74%
10.49%	10.28%	7.73%	5.49%	8.74%
16.60%	11.82%	10.28%	5.51%	8.41%
10.65%	7.11%	10.46%	7.11%	9.84%
9.66%	8.32%	9.18%	5.01%	13.45%
7.59%	9.99%	9.29%	2.29%	8.90%
7.76%	11.39%	9.17%	3.61%	5.27%

June	July	August	September	October
6,158,837.77	4,593,736.19	4,038,278.16	3,884,317.50	4,688,793.34
3,116,930.47	179,219.57	2,201,734.37	2,529,675.32	1,247,548.16
631,038.18	809,352.95	655,041.16	408,967.01	742,706.48
1,064,488.60	769,775.75	1,073,727.34	620,314.94	583,258.12
296,257.48	315,088.74	363,762.56	138,388.73	457,648.59
834,316.39	955,293.61	907,205.94	578,242.36	759,020.42
558,404.18	597,600.73	555,967.44	311,143.30	792,998.95
3,049,189.33	3,129,363.16	1,969,907.93	4,632,768.75	2,284,290.08
602,264.43	759,707.30	589,360.54	390,826.16	1,012,471.58
548,957.60	802,337.10	1,001,318.29	906,800.85	667,489.03
566,460.57	652,888.43	809,036.11	326,774.77	530,353.02
561,076.52	549,935.96	413,648.17	293,545.87	467,227.39
1,521,257.56	1,082,665.31	941,920.88	504,935.00	770,459.34
737,568.17	492,179.04	724,138.81	492,028.22	681,505.76
663,509.32	571,178.69	630,066.62	343,755.74	923,174.91
1,820,043.62	2,397,230.73	2,229,445.91	548,762.13	2,134,463.79
399,670.12	586,931.41	472,627.85	185,790.56	271,416.13
23,130,270.32	19,244,484.66	19,577,188.09	17,097,037.22	19,014,825.09

November	December	Total	2018 Planned Material Spend		
5.59%	9.16%	100.00%	49,931,138.20	101103	7,676,668.88
6.11%	21.29%	100.00%	33,941,266.31	101104	49,931,138.20
7.46%	4.85%	100.00%	7,676,668.88	101105	4,205,995.91
6.33%	6.92%	100.00%	9,497,959.15	101111	7,746,319.08
7.55%	28.52%	100.00%	4,205,995.91	101112	9,163,445.99
6.95%	6.73%	100.00%	8,453,861.32	101113	5,348,781.79
9.38%	8.82%	100.00%	6,313,951.75	101114	6,923,751.67
14.46%	9.01%	100.00%	34,310,867.80	101115	6,865,717.33
8.51%	8.73%	100.00%	7,746,319.08	101117	6,851,717.56
7.06%	12.42%	100.00%	8,778,363.89	101119	8,778,363.89
8.94%	5.77%	100.00%	6,851,717.56	101123	9,497,959.15
12.06%	4.37%	100.00%	5,348,781.79	101124	6,313,951.75
7.17%	6.40%	100.00%	9,163,445.99	101126	8,453,861.32
8.61%	3.12%	100.00%	6,923,751.67	101128	34,310,867.80
9.56%	12.33%	100.00%	6,865,717.33	101130	23,988,969.50
4.54%	7.19%	100.00%	23,988,969.50	101131	33,941,266.31
15.17%	8.52%	100.00%	5,152,149.67	101133	5,152,149.67
			235,150,925.79		235,150,925.79
November	December	Total		101006	528,543,359.61
2,793,497.93	4,574,553.38	49,931,138.20			
2,075,045.47	7,227,563.40	33,941,266.31			
572,631.52	372,116.07	7,676,668.88			
601,109.27	656,792.91	9,497,959.15			
317,572.61	1,199,403.87	4,205,995.91			
587,721.01	569,196.67	8,453,861.32			
591,966.32	556,933.20	6,313,951.75			
4,960,481.73	3,091,870.04	34,310,867.80			
659,521.79	676,387.38	7,746,319.08			
619,503.90	1,090,394.29	8,778,363.89			
612,350.98	395,152.46	6,851,717.56			
644,809.95	233,650.08	5,348,781.79			
656,892.65	586,582.12	9,163,445.99			
596,296.07	215,894.99	6,923,751.67			
656,209.58	846,253.92	6,865,717.33			
1,089,709.53	1,725,453.79	23,988,969.50			
781,416.00	438,933.01	5,152,149.67			
18,816,736.32	24,457,131.59	235,150,925.79			

	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
101104	9,775,233.85	15,582,727.85	12,516,331.85	12,056,844.65	49,931,138.20
101131	11,141,670.06	7,338,809.97	4,910,629.25	10,550,157.03	33,941,266.31
101103	2,293,115.05	1,822,738.65	1,873,361.11	1,687,454.07	7,676,668.88
101123	2,420,871.08	2,772,109.75	2,463,818.03	1,841,160.29	9,497,959.15
101105	592,321.29	821,809.53	817,240.03	1,974,625.07	4,205,995.91
101126	1,859,902.89	2,237,278.42	2,440,741.91	1,915,938.10	8,453,861.32
101124	1,268,280.36	1,639,061.44	1,464,711.48	1,941,898.48	6,313,951.75
101128	6,869,474.90	7,372,711.20	9,732,039.85	10,336,641.84	34,310,867.80
101111	1,891,220.78	1,766,823.55	1,739,894.00	2,348,380.75	7,746,319.08
101119	1,781,756.88	1,908,763.56	2,710,456.24	2,377,387.21	8,778,363.89
101117	1,949,861.44	1,575,300.33	1,788,699.32	1,537,856.46	6,851,717.56
101113	1,358,057.96	1,387,906.40	1,257,130.00	1,345,687.42	5,348,781.79
101112	1,879,854.08	2,740,136.62	2,529,521.18	2,013,934.11	9,163,445.99
101114	1,816,167.94	1,905,540.84	1,708,346.07	1,493,696.83	6,923,751.67
101115	876,854.23	2,018,223.63	1,545,001.06	2,425,638.41	6,865,717.33
101130	6,901,189.09	6,962,714.53	5,175,438.77	4,949,627.11	23,988,969.50
101133	1,535,127.34	879,907.37	1,245,349.81	1,491,765.15	5,152,149.67
	56,210,959.21	60,732,563.61	55,918,709.97	62,288,693.00	235,150,925.79

Row Labels	Sum of October	Sum of November	Sum of December	Total
101006	332,627.73	332,478.51	343,312.86	1,008,419.10
101103	165,682.08	162,746.08	160,078.50	488,506.66
101104	193,606.45	191,152.17	188,857.67	573,616.29
101105	70,254.51	68,939.51	67,725.35	206,919.37
101111	158,907.95	155,512.09	152,474.96	466,895.00
101112	180,624.51	176,826.84	173,291.94	530,743.29
101113	88,006.23	86,043.30	84,326.84	258,376.37
101114	103,781.69	101,733.26	99,836.10	305,351.05
101115	146,004.40	143,810.34	141,777.00	431,591.74
101117	182,231.47	178,982.22	175,956.12	537,169.81
101119	189,958.60	186,374.98	183,076.02	559,409.60
101123	145,751.18	142,446.37	139,373.71	427,571.26
101124	118,355.49	116,068.40	113,978.10	348,401.99
101126	237,620.14	233,893.34	230,430.68	701,944.16
101128	59,143.49	57,916.80	56,748.68	173,808.97
101130	119,624.60	116,377.56	113,280.36	349,282.52
101131	115,239.35	112,270.59	109,482.13	336,992.07
101133	17,738.09	17,027.90	16,391.01	51,157.00
Grand Total	2,625,157.96	2,580,600.26	2,550,398.03	7,756,156.25

Cost Ctr	CO object name	January	February
101006	P&L DISTR PURCH	346,515.55	332,183.62
101103	P&L SO HOU WHSE	163,614.50	154,840.09
101104	P&L TRSM OPS WHSE	191,834.99	184,487.34
101105	P&L GALVESTON WHSE	69,355.12	65,402.10
101111	P&L BELLAIRE WHSE	156,726.54	146,646.57
101112	P&L H O CLARK WHSE	178,180.12	166,767.57
101113	P&L SPRING BR WHSE	86,801.01	81,139.52
101114	P&L FORT BEND WHSE	102,450.43	96,294.13
101115	P&L KATY WHSE	144,612.90	138,020.92
101117	P&L SUGAR LD WHSE	180,249.80	170,485.68
101119	P&L CYPRESS WHSE	187,612.25	176,841.69
101123	P&L BAYTOWN WHSE	143,594.60	133,674.22
101124	P&L HUMBLE WHSE	116,874.40	110,043.83
101126	P&L GREENSPNT WHSE	235,164.61	223,958.69
101128	P&L METER LAB	58,442.27	54,766.23
101130	P&L UNDERGR WHS	117,414.43	107,642.97
101131	P&L SUBSTATION SUPT	113,200.66	104,312.26
101133	P&L Teleco Warehouse	17,314.85	15,141.42
		2,609,959.03	2,462,648.85

March	April	May	June	July	
320,503.81	329,260.61	335,707.26	334,003.76	330,969.37	
160,874.66	158,243.16	164,166.36	160,005.61	163,008.18	
189,472.28	187,416.20	192,236.90	188,789.66	191,252.31	
68,121.69	66,864.02	69,535.17	67,695.43	69,021.15	
153,592.02	150,396.36	157,175.44	152,413.58	155,859.12	
174,607.73	170,944.23	178,742.68	173,221.94	177,147.01	
84,948.25	83,286.44	86,958.16	84,293.68	86,317.45	
100,527.77	98,545.03	102,758.76	99,799.54	101,919.70	
142,557.46	140,424.10	144,943.73	141,738.14	144,010.72	
177,192.08	174,036.35	180,716.09	175,899.90	179,258.63	
184,276.51	180,774.36	188,188.65	183,009.75	186,736.14	
140,476.90	137,319.70	144,059.37	139,309.31	142,708.85	
114,738.84	112,552.39	117,210.10	113,935.97	116,310.40	
231,662.30	228,064.47	235,729.23	230,358.90	234,216.42	
57,255.97	56,038.86	58,497.27	56,728.66	57,970.57	
114,274.11	111,267.26	117,815.14	113,206.95	116,517.45	
110,353.41	107,861.20	113,719.71	109,420.74	112,409.08	
16,695.16	15,862.69	17,341.54	16,383.62	17,017.68	
2,542,130.95	2,509,157.43	2,605,501.56	2,540,215.14	2,582,650.23	

August	September	October	November	December	Total val. rep.crcy
334,249.47	330,605.87	332,627.73	332,478.51	343,312.86	4,002,418.42
165,735.32	157,171.21	165,682.08	162,746.08	160,078.50	1,936,165.75
193,619.17	186,428.21	193,606.45	191,152.17	188,857.67	2,279,153.35
70,295.14	66,408.52	70,254.51	68,939.51	67,725.35	819,617.71
158,925.32	149,153.14	158,907.95	155,512.09	152,474.96	1,847,783.09
180,736.71	169,504.46	180,624.51	176,826.84	173,291.94	2,100,595.74
87,933.96	82,487.99	88,006.23	86,043.30	84,326.84	1,022,542.83
103,847.02	97,796.44	103,781.69	101,733.26	99,836.10	1,209,289.87
146,059.61	139,589.44	146,004.40	143,810.34	141,777.00	1,713,548.76
182,308.71	172,714.63	182,231.47	178,982.22	175,956.12	2,130,031.68
190,056.42	179,501.01	189,958.60	186,374.98	183,076.02	2,216,406.38
145,816.97	136,082.44	145,751.18	142,446.37	139,373.71	1,690,613.62
118,393.87	111,717.96	118,355.49	116,068.40	113,978.10	1,380,179.75
237,712.41	226,710.11	237,620.14	233,893.34	230,430.68	2,785,521.30
59,152.21	55,526.44	59,143.49	57,916.80	56,748.68	688,187.45
119,679.50	110,031.21	119,624.60	116,377.56	113,280.36	1,377,131.54
115,273.12	106,559.39	115,239.35	112,270.59	109,482.13	1,330,101.64
17,770.97	15,664.08	17,738.09	17,027.90	16,391.01	200,349.01
2,627,565.90	2,493,652.55	2,625,157.96	2,580,600.26	2,550,398.03	30,729,637.89

CERTIFICATE OF SERVICE

I hereby certify that on this 16th 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.


