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**SOAH DOCKET NO. 473-25-11558
PUC DOCKET NO. 57579**

APPLICATION OF CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC FOR APPROVAL OF ITS TRANSMISSION AND DISTRIBUTION SYSTEM RESILIENCY PLAN	§ § § § §	BEFORE THE STATE OFFICE OF ADMINISTRATIVE HEARINGS
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March 14, 2025

**Contact: Stacey Murphree
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**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
PUC DOCKET NO. 57579
SOAH DOCKET NO. 473-25-11558**

**HOUSTON COALITION OF CITIES
REQUEST NO.: HCC-RFI03-09**

QUESTION:

Provide the total number of analog, copper-based protective relays purchased by CEHE in the last 5 years, including, the model number and unit costs.

ANSWER:

Description	Unit Model	Moving Price	total ordered from 2020-2025
RELAY,MVAA11,125VDC,6"A"CON		\$236.90	1
RELAY,120VAC,COIL,4PDT CONTACTS,10A		\$329.80	50
RELAY,GENERAL PURPOSE, 110DC, DPDT, 8PIN		\$25.65	489

SPONSOR:

Deryl Tumlinson

RESPONSIVE DOCUMENTS:

None

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
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**HOUSTON COALITION OF CITIES
REQUEST NO.: HCC-RFI03-14**

QUESTION:

As described in RM-17, has CEHE included any work on cable replacement in prior rate cases. If so, provide the annual costs from 2015 to present that was included in those rate cases.

ANSWER:

No, RM-17 as defined in the System Resiliency Plan is a new program that has not been included in prior rate cases.

SPONSOR:

Randy Pryor

RESPONSIVE DOCUMENTS:

None

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
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**HOUSTON COALITION OF CITIES
REQUEST NO.: HCC-RFI03-16**

QUESTION:

Provide manufacturer's details of the sensors to be installed in RM-19 and the unit cost for the sensors.

ANSWER:

Please see the response for HCC RFP 3-3 (c) for manufacturer's details from EPRI. The unit cost for the sensors is \$5,000.

SPONSOR:

Deryl Tumlinson

RESPONSIVE DOCUMENTS:

None

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
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**HOUSTON COALITION OF CITIES
REQUEST NO.: HCC-RFI03-17**

QUESTION:

Provide details costs for the total capital budget of \$144.0 million in RM-19, including, but not limited to the number of sensors, cost per sensors, and communication costs.

ANSWER:

The capital budget of \$144M in RM-19 includes the following:

- \$138M for 6,600 fiberglass poles and 11,541 insulators over 3 years for distribution
- \$6M for 2,132 insulators over 3 years for substation at \$3,000/insulator

The sensors are O&M and estimated to be \$6M over 3 years for 68 substation and 6 transmission leakage current monitors.

SPONSOR:

Deryl Tumlinson

RESPONSIVE DOCUMENTS:

None

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
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**HOUSTON COALITION OF CITIES
REQUEST NO.: HCC-RFI03-18**

QUESTION:

Provide a 10-year history of outages due to salt contamination flashovers which RM-19 proposes to mitigate and the projected reduction in flashes with the installation of sensors.

ANSWER:

For transmission and substation events, salt contamination related outages are tracked by a contamination code, and the information is provided on the Transmission tab in the attachment HCC RFI 3-18 Contamination Outages CONFIDENTIAL.xls.

For distribution events, outages caused by salt contamination are not tracked by a specific code; therefore, the Company does not believe this source of information is comprehensive for answering the question above at the distribution level. However, in the interest of transparency, the Company is providing the data for distribution outage events located inside salt contamination zones that have "corrosion" and "contamination" remarks from crews. This information is provided on the Distribution tab in attachment HCC RFI 3-18 Contamination Outages CONFIDENTIAL.xls.

The sensors are early warning tools to help us take proactive actions, such as washing the insulators, to prevent flashovers. However, we also mitigate contamination risks by applying coatings to the insulators or replacing insulators so it's difficult to attribute the reduction in flashovers with just the installation of sensors.

SPONSOR:

Deryl Tumlinson

RESPONSIVE DOCUMENTS:

HCC RFI 3-18 Contamination Outages CONFIDENTIAL.xls

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
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**HOUSTON COALITION OF CITIES
REQUEST NO.: HCC-RFI03-19**

QUESTION:

Provide the cost for power washing insulators, including,

- a. Actual unit cost each of the last 5 years;
- b. Actual annual expenditure for each of the last 5 years;
- c. Actual number of units washed (Insulators, mile of line or similar units);
- d. Estimated unit cost for 2026-2028;
- e. Estimated annual expenditure for 2026-2028;
- f. Projected number of units washed for 2026-2028.

ANSWER:

- a. Units are defined as miles for Distribution, and substation locations for Substation:

Distribution: On average, it cost approximately \$6,108 per mile
Substation: On average, it cost approximately \$30,000 per substation location

- b. Actual annual expenditure for each of the last 5 years:

Distribution:

For Distribution, power washing insulators is not tracked as a unique activity, it is typically done in conjunction with other work. For example, if the need for insulator washing is driven by a pole fire, the activities and costs would be aggregated and coded under that issue. As such, identifying the actual dollars spent is not readily available.

Substation:

2024: \$7,160
2023: \$387,286
2022: \$164,058
2021: \$76,484
2020: \$1,066

- c. Units are defined as miles for Distribution, and substation locations for Substation:

Distribution: Approximately 5 miles washed in the last 5 years
Substation: 16 substations, with 6 locations being washed multiple times over the last 5 years

- d. Units are defined as miles for Distribution, and substation locations for Substation:

Distribution: \$25,000/mile
Substation: \$30,000/substation location

- e. Estimated annual expenditure:

Distribution: \$150,000/year from 2026-2028
Substation: \$150,000/year from 2026-2028

- f. Estimated number of units to be washed:

Distribution: 6 miles/year from 2026-2028
Substation: 5 substation locations/year from 2026-2028

SPONSOR:
Deryl Tumlinson

RESPONSIVE DOCUMENTS:
None

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**HOUSTON COALITION OF CITIES
REQUEST NO.: HCC-RFP03-08**

QUESTION:

Provide documentation evidencing competitive bidding for the sensors in RM-19.

ANSWER:

The sensors in RM-19 are leakage current monitors developed by EPRI in collaboration with CenterPoint Energy Houston and are currently not available by any other vendor that we are aware of.

SPONSOR:

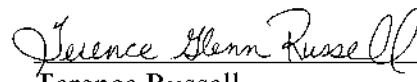
Deryl Tumlinson

RESPONSIVE DOCUMENTS:

None

CERTIFICATE OF SERVICE

I hereby certify that on March 14, 2025, notice of the filing of this document was provided to all parties of record via electronic mail in accordance with the Second Order Suspending Rules, filed in Project No. 50664.


Terence Russell