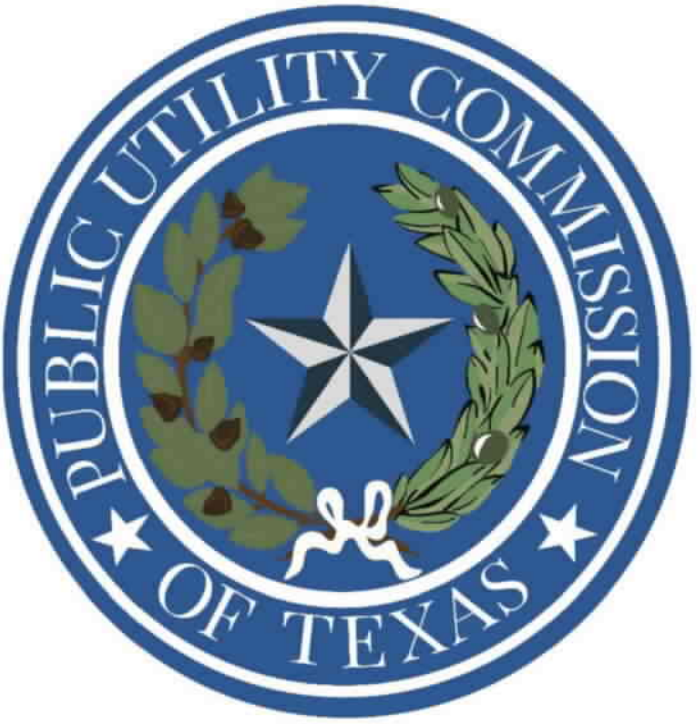

Filing Receipt

Filing Date - 2025-04-04 02:44:12 PM

Control Number - 57579

Item Number - 140

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

APPLICATION OF CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC FOR APPROVAL OF ITS 2026-2028 TRANSMISSION AND DISTRIBUTION SYSTEM RESILIENCY PLAN	**§ § § § §**	**BEFORE THE STATE OFFICE OF ADMINISTRATIVE HEARINGS**

April 4, 2025

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

CEHE
REQUEST NO.: TC01-01

QUESTION:

Follow up Action Items from the March 17, 2025 Technical Conference (non-confidential).

ANSWER:

Please see rows 20 and 21 in the attached file TC-01-01 - Technical Conference Rolling Answer to Follow Up Items 3.21.25 for responses to the action items that came out of the Technical Conference held on March 17, 2025.

SPONSOR:
Nathan Brownell

RESPONSIVE DOCUMENTS:
TC-01-01 - Technical Conference Rolling Answer to Follow Up Items 3.21.25.xls

SRP Technical Conference
Follow Up Action Items as of March 21, 2025

Party	Follow Up Action Item	Answer	Data File
Scott Norwood	Average annual CMI per customer per year in savings for SRP	224M annual CMI reduced per customer (628M CMI per yr / 2.8M customers)	TABLE ELS-2 on p 1113-1114 of the SRP Filing PDF for 628M CMI, p 5 of the SRP Filing PDF for 2.8M customers
	What is a typical CMI in a given year?	5 year average (2020-2024, inclusive) resiliency event CMI per year is 3.65B	TCUC RFI 1-20 Attachment: Total CMI and resiliency category associated with each extreme weather event referenced in Figure APP-12 for 2020-2024
	What is the estimated SAIDI savings over the three years of the SRP	Guidehouse and CEHE did not perform any calculations to project SAIDI/SAIFI/CAIDI for next five years. Guidehouse's analysis only determined the incremental reduction in CMI achieved by resiliency measures based on expected CMI impact limited to future resiliency events.	HCC RFI 1-3
IBEW	Provide simplified calculation of BCA (# subs x 3% x 20% x 75MW x 35K VOLL)	See IBEW tab	
TIEC	Provide simplified table for CMI at risk	See TIEC tab	
TCUC	Provide "unlocked" GH spreadsheet to allow for input changes	A copy of the unlocked Guidehouse models (D56548 and D57579) will be filed in response to TCUC Set 2 on March 24th.	
PUCT Staff	Provide an example of an underground failure during a resiliency event (CNP mentioned there was one during Beryl, but need specifics of what failed)	The majority of MUG failures during Beryl and the Derecho last year were due to splices, terminators, and LA failures. We did experience a couple of events where cable did fail during Beryl. At our San Felipe (SF) Substation, there were two problems crews found in a manhole. The first one, was a cable failure up in the conduit on SF42 circuit, where crews had to replace the cable. The second was a splice failure in the same manhole on the SF44 CKT. We had to replace cable on that ckt due to not enough cable slack to remake the splice.	
Kevin M	Provide an example of an older transformer being replaced with a larger transformer that is a N-1 scenario requiring replacement.		HCC RFI04-16
	Provide date of planning criteria change for transformer size	CEHE piloted 50MVA in 1992 & 100MVA in 1997. Specs for both 50 & 100 MVA were updated in 2005.	
	Provide listing by component for substation elevation costs	Engineering: Approx. $360K, Material: Approx. 1.6M, Construction: Approx. $1.6 (varies slightley across locations, but in general these are averages per site)	
Michael Ivy	Provide flood plain assignment for each substation to be elevated	**Liverpool** – Within storm surge area based on NOAA maps. **PHR 138kV** – Within both the 500yr floodplain and storm surge. **North Belt 138kV –** Within 100yr floodplain. **Hockley** – Substation has experienced flooding in the past. **Cedar Bayou Plant -** Within both the 500yr floodplain and storm surge. **Bayway** - Within both the storm surge and 100yr. **PHR 345kV** - Within both the 500yr floodplain and storm surge. **North Belt 345kV** - Within 100yr floodplain. **Thompson*** - Within 100yr floodplain **PHR (Dist.)** - Within both the 500yr floodplain and storm surge. **Kemah*** - Within storm surge area based on NOAA maps **Webster 138kV** – Within both the 500yr floodplain and storm surge.	
Aclaim	Provide natrual gas performance during resiliency events (related to Microgrid presentation by Aclaim)	In Process	
ALL	Outreach to parties regarding potential SOAH mediation	Complete	
CNP	Please provide system line maps showing the routes including notes showing the existing system and proposed changes for transmission lines in measures RM-7, RM-8, and RM-9	All proposed route changes must undergo a route study and are subject to change until final approval. Maps of approved route changes will be provided under separate, confidential cover.	
OPUC	For the 69 kV to 138 kV conversion, please confirm that additional clearance requirements are being met by using taller poles.	Confirm	
	Did any of these substations proposed in RM-10 flood during Harvey?	Please see the response to IBEW 01-11	

Simplified calculation of BCA (# subs x 3% x 20% x 75MW x 35K VOLL)

Substation Flood Control	
Number of substations	12
Cost to raise each substation	$ 3,650,000
Total cost to raise substations	**$ 43,800,000**
Load at risk at each substation (MW)	75
Failure rate	0.03
Percent failures causing loss of load	0.2
Outage duration (restoration hours)	36
Value of Lost Load ($/kWHr)	$ 35,000
Number of years benefits accrue	20
Net Present Value (NPV) multiplier	13.00
Total benefit of avoiding outages	**$ 88,429,358**
Benefit to Cost Ratio (BCA)	**2.02**

Excludes restoration costs and collateral damage

Net Present Value Multiplier	**Year**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**2035**	**2036**	**2037**	**2038**	**2039**	**2040**	**2041**	**2042**	**2043**	**2044**	**2045**
Discount Rate (Year 1-10)*	0.05	0.96	0.92	0.88	0.84	0.80	0.77	0.73	0.70	0.67	0.64										
Discount Rate (Year 10-20)*	0.0951											0.62	0.59	0.56	0.54	0.52	0.49	0.47	0.45	0.43	0.41
Annual Discount Rate		0.96	0.92	0.88	0.84	0.80	0.77	0.73	0.70	0.67	0.64	0.62	0.59	0.56	0.54	0.52	0.49	0.47	0.45	0.43	0.41
NPV Multiplier (20 years)	**13.00**																				

*Discount rate adjusted for 2% annual inflation

Simplified table for CMI at risk

Substation Flood Control	
Number of substations	12
Load at risk at each substation (kW)	75000
Failure rate	0.03
Percent failures causing loss of load	0.2
Outage duration (minutes)	2160
Average load per customer (kW)	6
Annual CMI (millions)	**2**

CERTIFICATE OF SERVICE

I hereby certify that on April 4, 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 Glenn Russell
Terence Russell

The following files are not convertible:

TC-01-01 - Technical Conference Rolling Answer to Follow Up Items 3.21.25.xlsx

Please see the ZIP file for this Filing on the PUC Interchange in order to access these files.

Contact centralrecords@puc.texas.gov if you have any questions.