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Control Number - 56822

Item Number - 156



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September 6, 2024

John B. Lajzer Division Director Division of Compliance and Enforcement Public Utility Commission of Texas P.O. Box 13326 Austin, Texas 78711-3326

Re: Project No. 56822, Investigation of Emergency Preparedness and Response by Utilities in Houston and Surrounding Communities

Dear Mr. Lajzer:

CenterPoint Energy Houston Electric, LLC (CenterPoint Houston) hereby files the attached roadmap to its responses filed on August 30, 2024, to the requests for information (RFIs) issued by the Staff of the Public Utility Commission of Texas (Commission) in this project. The roadmap includes corresponding references to specific RFIs, the Bates Numbers for CenterPoint Houston's responses and reference documents, if any, and the CenterPoint Houston individual sponsoring the response. Please note that while the roadmap is intended as a resource to facilitate Staff's review of CenterPoint Houston's RFI responses, the RFI responses filed on August 30, 2024, constitute CenterPoint Houston's official responses and control in the event of any inadvertent differences between the RFI responses and this roadmap.

Please do not hesitate to contact me if you have any questions.

Sincerely,

/s/ Patrick Peters Patrick Peters

Category	RFI	Summary of Response	Reference Document(s)	Sponsor(s)
Emergency Planning and	1-1,	Annual Hurricane Drill	2024 Hurricane Tabletop	Chasta Martin,
Event Response	1-2,	(Bates Nos. 3-4, 79, 80)	Exercise Slide Deck	Vice President,
-	1-3		(Bates Nos. 5-78); 2024	Field Services
	1-4	CenterPoint Energy conducted its annual hurricane drill on	Hurricane Felice	
		April 23rd. The simulated drill conditions were:	Simulation Slide Deck	
		 Category 3 hurricane, maximum sustained winds at 125 	(Bates Nos. 81-182)	
		mph, gusting winds at 150 mph		
		 Hurricane Gilbert (1988) used to set hurricane 		
		conditions		
		• 2.1 million outages due to downed power lines, damage to		
		substation transformers, and damaged transmission		
		structures		
		 Hurricane Ike (2008) used to set outages and overall 		
		impact conditions		
		Stal al dan in not fino al contrant in ani an horni anno duilles		
		Stakenolder input/involvement in prior numcane drifts:		
		drilla and have received briefings on the storm restoration		
		arms and have received offerings on the storm restoration		
		 DLC personnel have been invited to observe previous 		
		burricane drills		
	1-5	Weather Monitoring		Chasta Martin
		(Bates No. 184)		Vice President
				Field Services
		CenterPoint Energy uses the following resources to monitor		
		weather and track storms:		
		 National Weather Service 		
		 National Hurricane Center 		
		• StormGeo: Provides daily weather forecasts and 24/7		
		meteorological support		
		Harris County Office of Homeland Security and		
		Emergency Management Tropical Awareness Update		
		reports		
		 Texas Division of Emergency Management State 		
2		Operations Center		

	Tracking of Hurrisone Beryl	Storm Goo Atlantic	Chasta Martin
1-7	(Datas Na 196)	Dilla Drie Gran Lawed en	Vias Drasidant
	(Bates No. 180)	Daily Briefing Issued on	vice President,
		June 25, 2024 (Bates	Field Services
	CenterPoint Energy began tracking the tropical disturbance	Nos. 189-191); EP&R	
	that eventually became Hurricane Beryl on June 25, 2014.	Monitoring Notification	
	On June 30th, CenterPoint Energy initiated its Weather	sent on June 30, 2024	
	Monitoring Report to apprise internal leadership of the	(Bates Nos. 187-188);	
	tropical disturbance and its forecasted track.	May 2024 Derecho and	
		Hurricane Bervl	
		Timeline submitted as	
		part of response to PEI	
		1 15 (Deter New 280	
		1-15 (Bates Nos. 380-	
		389)	
-1	2, <u>Emergency Response Processes</u>	Emergency Operations	Chasta Martin,
1-1	3 (Bates Nos. 376-377)	Plan (Bates Nos. 293,	Vice President,
		295)	Field Services
	CenterPoint Energy's Emergency Operations Plan details the		
	processes used to categorize emergency events. CenterPoint		
	Energy uses an operating condition system, as detailed in its		
	Emergency Operations Plan, which details the following		
	levels:		
	Level 1: Crisis Conditions		
	Level 2: Severe Emergency Conditions		
	Level 2: Elevated Incident Conditions		
	- Level 5. Elevated incluent Conditions		
	- Level 4. Routine Operations incident		
	CenterPoint Energy's distribution operations also uses an		
	operating condition system (Trouble Levels 1-8) that		
	classifies the impact a storm has or may have on the		
	distribution system.		
1-1	5 Advance Preparation for Hurricane Beryl	May 2024 Derecho and	Chasta Martin,
	(Bates No. 379)	Hurricane Beryl	Vice President,
	July 2nd	Timeline (Bates Nos.	Field Services
	 Employees notified about monitoring of Beryl 	380-389)	
	developments and then path towards northeast Mexico	-	
ω	 Preparation call with line skills resource aggregator 		

	 July 3rd Employees notified about monitoring of Beryl developments and then path towards northeast Mexico Preparation calls with line skills resource aggregators July 4th 	
	 Employees notified about monitoring of Beryl developments and then predicted landfall 60 miles south of Brownsville, Texas 	
	 July 5th Preparation calls with line skills resource aggregators and vegetation management resource aggregators Staging site managers and external turnkey providers notified about possible activation Temporary generation vendor notified about potential deployment of temporary generation units 	
	 July 6th Operational, planning, and weather calls throughout the day Activation and notification of resources to report by 6:00 a.m., Monday, July 8th Internal: 1,131 line skills Native contractors: 740 line skills, 501 vegetation management Mutual assistance request: 2,787 line skills Preparation calls with line skills resource aggregators and vegetation management resource aggregators Staging sites and warehouse teams notified 	
4	 July 7th Emergency Level 2 activated Operational, planning, and weather calls throughout the day Internal damage assessment teams activated and notified 	

Г			to manufacture starts (.00 cm. Manda T.1. Oth		
			to report to staging sites by 6:00 a.m., Monday, July 8th		
			• Coordination with the Texas Mutual Assistance Group and		
			the Southeastern Electrical Exchange to secure additional		
			resources		
			 2,502 line skills requested 		
			594 vegetation management requested		
			400 damage assessment requested		
			• 4 staging sites to be activated on Monday, July 8th		
ľ		1-9.	Mutual Assistance Requests	May 2024 Derecho and	Dervl Tumlinson.
		1-15	(Bates Nos 193 379 1390-1391)	Hurricane Beryl	Vice President
		1_111	(1940) 190, 199, 1990 1991)	Timeline (Bates Nos	Distribution
		1-111	Beginning on July 2nd CenterPoint Energy contacted two	380 380)	Operations and
			mutual aggistance organizations, the Toyog Mutual Aggistance	380-389)	Service Delivery
			Crear and the Southeastern Electric Euclidean and multiple		Service Derivery
			Group and the Southeastern Electric Exchange, and multiple		
			aggregators for line skill resources and vegetation		
			management resources. Between July 6th-14th, CenterPoint		
			Energy requested 9,388 line skills resources, 2,837 vegetation		
			management resources, and 1,000 damage assessment		
			resources from external contractors. Over 94% of these		
			resources were requested by July 8th, the day that Hurricane		
			Beryl made landfall.		
	Communication and	1-57,	New Outage Tracker		Kate Porter, Vice
	Coordination	1-59	(Bates Nos. 1085, 1087-1088)		President,
					Enterprise
			CenterPoint Energy saw performance issues with the original		Operational
			Outage Tracker on May 16th at approximately 7 p.m.		Excellence:
			CenterPoint Energy's new outage tracker was released on		Stenhenie
			August 1st with the following functionality		Howard Vice
			 Available at least 99 99% of the time 		President
			Able to accommodate 100 000 concurrent users		Customer
			Captures all levels of outgree events: circuit fuse		Strateon and
			transformer localized		Diategy and
			transformer, focalized		Development
			Control Defet Deserve the difference of the second state		Development
			CenterPoint Energy load-tested its new outage tracker up to		
ر بر ا			30,000 concurrent users and approximately 2.2 million		
~[impacted customers		

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		 No degradation in performance 		
		Autoscaling capability was successful		
	1-29,	Communication Strategy	July 6th News Release	John Sousa, Vice
	1-47	(Bates Nos. 982-983, 1074-1075)	(Bates Nos. 988-989)	President,
				Corporate
		In preparation for the 2024 Hurricane Season, CenterPoint		Communications,
		Energy conducts meetings with critical facilities to share		Marketing, and
		information about emergency preparedness. In 2024,		Security; Rina
		CenterPoint Energy conducted 12 meetings at the following		Harris, Vice
		locations that covered our Emergency Operations Plan,		President,
		advance preparation and coordination of internal resources,		Strategic
		and our communications plan:		Business Growth
		May 30th: Katy Service Center		and Engagement
		June 4th: Galveston Service Center Auditorium, Cypress		
		Service Center		
		June 5th: Baldree Community Center		
		June 6th: Pasadena Convention Center, Fort Bend Service		
		Center, Harris County Annex, Humble Service Center		
		June 7th: Brazoria Service Center		
		June 11th: Sugar Land Service Center		
		• June 13th: Bellaire Service Center		
		June 26th: Spring Branch Service Center		
		Additionally, CenterPoint Energy had 2 briefings to inform		
		state stakeholders about hurricane preparation and		
		coordination efforts:		
		 April 5th: Texas Division of Emergency Management 		
		staff, Public Utility Commission of Texas staff, Local		
		Emergency Management staff		
		 May 22nd: Legislators and Legislative staff (as part of 		
		Association of Electric Companies of Texas' briefing)		
		CenterPoint Energy utilizes news releases, media responses,		
		on-camera interviews, social media, e-mail, Power Alert		
		Service, and CenterPoint Energy's website to communicate		
တ		prior to, during, and after a storm event.		

	 CenterPoint Energy issued its first Hurricane Beryl-related communication on Saturday, July 6th. The following summarizes communications prior to, during, and after Hurricane Beryl: 55 media interviews; responses to 390 media inquiries 20 daily news release updates 4 e-mails to customers: approximately 1.35 million customers reached Social media 376 posts on X: approximately 14.3 million impressions 170 posts on Facebook: approximately 14.5 million people reached 185 posts on Instagram: more than 972,000 people reached 118 posts on LinkedIn: more than 729,000 	
1-35	Communication with Local and State Officials (Bates Nos. 1052-1053) CenterPoint Energy has employees that act as liaisons with local and state offices of emergency management. CenterPoint Energy's liaisons participate in pre-storm, poststorm, and restoration calls and coordinate in the daily flow of communication and restoration updates. During Hurricane Beryl restoration efforts, CenterPoint Energy's liaisons were embedded at the following offices of emergency management: Texas Division of Emergency Management State Operations Center Disaster District Emergency Operating Center 16 (Houston District) City of Houston Harris County Brazoria County	John Sousa, Vice President, Corporate Communications, Marketing, and Security; Stephen Bezecny, Vice President, Regulatory Services, Natural Gas Rates and Regulatory Portfolio Management Organization

Γ		Galveston County		
		Montgomery County		
		CenterPoint Energy also had liaisons that provided virtual		
		support to offices of emergency management of Chambers		
		County and Waller County		
		County and waner County.		
		Portinging on July 8th, the day that Hurrisons Port made		
		landfall. ContarDoint Energy cont two tout massages par dou		
		landian, CenterPoint Energy sent two text messages per day		
		• Governor Greg Abbott		
		Lieutenant Governor Dan Patrick		
		 Senator Charles Schwertner, Chair of the Senate Business 		
		and Commerce Committee		
		 Senator Phil King, Vice Chair of the Senate Business and 		
		Commerce Committee		
		 Representative Todd Hunter, Chair of the House State 		
		Affairs Committee		
		 Representative Ana Hernandez Vice Chair of the House 		
		State Affairs Committee		
		 Members of the Texas Legislative Delegation of Houston 		
		and surrounding areas		
		The text measures cout by ConterDaint Energy provided		
		The text messages sent by CenterPoint Energy provided		
		restoration information such as the number of customers		
		restored, the number of crews assisting, and the number of		
		staging sites. Additionally, beginning on July 10th,		
		CenterPoint Energy held daily telephone briefings for elected		
		state and local officials.		
		CenterPoint Energy also provided information, once in the		
		morning and once in the evening, to the Commissioners of the		
		Public Utility Commission of Texas and agency leadership.		
		Information was also shared with the Office of Public Utility		
		Counsel and Texas Division of Emergency Management		
∞		personnel that were at the State Operations Center.		
ľ	1-33,	Call Center Staffing and Volume	Electric Outage Training	Shonda Royston-

		1.24	(Dates Nov. 1047, 1050, 1051)	Desument (Detec Ner	Johnson Mas
		1-34	(Bates Nos. 1047, 1030-1031)	Document (Bates Nos.	Johnson, vice
				1048-1049)	President,
			Staffing:		Customer
			• 379 call center agents; 73% internal, 27% contractors		Experience
			• Goal: Address customer's issue within 250 seconds from		
			when the call was answered		
			 Hurricane Beryl: Call center was augmented to 441 call center agents 		
			Call center agents receive training related to major outages and major weather events		
			and major weather events.		
			From July 8th-19th, CenterPoint Energy's call center had a		
			daily average of 184,680 calls, with peak calls of 426,456		
			occurring on July 9th, the day after Hurricane Beryl made		
			landfall.		
	Customer Restoration	1-64.	Restoration Process	CenterPoint Energy	Dervl Tumlinson.
	Workflow	1-65	(Bates Nos. 1100, 1180)	Emergency Operations	Vice President.
				Plan (Bates Nos. 297-	Distribution
			The prioritization of restoration efforts following a hurricane	298): CenterPoint	Operations and
			or a major storm are described in CenterPoint Energy's	Energy Storm	Service Delivery
			Emergency Operations Plan and Emergency Restoration Plan.	Restoration Plan (Bates	
			CenterPoint Energy's restoration process seeks to restore	Nos. 1105)	
			power to the highest number of customers and to restore		
			critical facilities such as hospitals, fire stations, police		
			stations, water treatment facilities, senior/assisted living.		
			warming/cooling centers grocery stores etc. The restoration		
			process generally utilizes the following sequence: (1)		
			circuit/section level restoration (2) fuse level restoration (3)		
			transformer level restoration and (4) localized outage		
			restoration		
		1-68	Customer Outage Percentage by County	Daily Customer Outage	Eric Easton, Vice
		_	(Bates No. 1202)	Percentage by County	President, Grid
				Spreadsheet (Bates Nos.	Transformation
			Austin Harris	1203-1205)	and Investment
9			 July 8th: 19.4% July 8th: 58.16% 		Strategy

		 July 13th: 0.14% 	 July 13th: 15.33% 	
		 July 18th: 0.00% 	 July 18th: 0.16% 	
		-	-	
		Brazoria	Liberty	
		 July 8th: 73.4% 	 July 8th: 90.57% 	
		 July 13th: 10.6% 	 July 13th: 14.15% 	
		July 18th: 0.03%	 July 18th: 0.1% 	
		Chambers	Matagorda	
		 July 8th: 31.64% 	 July 8th: 36.97% 	
		 July 13th: 6.06% 	 July 13th: 31 34% 	
		■ July 18th: 0.04%	 July 18th: 0.00% 	
		Colorado	Montgomery	
		■ July 8th: 16.51%	July 8th: 68.71%	
		 July 13th: 0.00% 	■ July 13th 17 47%	
		• July 18th: 0.23%	• July 18th: 0.01%	
		Fort Bend	Waller	
		July 8th: 63.35%	July 8th: 16.03%	
		July 13th: 4.71%	 July 13th: 2.74% 	
		• July 18th: 0.03%	July 18th: 0.02%	
		Galveston	Wharton	
		 July 8th: 62.32% 	 July 8th: 43.59% 	
		 July 13th: 6% 	 July 13th: 4.56% 	
		 July 18th: 0.03% 	July 18th: 0.99%	
	1-69	Call Center Service Reques	sts and Process	Shonda Royston-
		(Bates No. 1206)		Johnson, Vice
				President,
		General process:		Customer
		Call center agent creates	s a service order	Experience
		 Service order dispatched 	d to operations and assigned to a	-
		technician	_	
_		 Technician is dispatched 	d to field to work on service order	
0		as schedule permits		
		_		

		Process for hazardous conditions:		
		 "Hot Seat" agent is notified; agent verifies the service 		
		order has been created and updated		
		Crews notified of the potentially hazardous condition,		
		indicating need to perform a prioritized response		
		 If crews determine a hazardous condition exists, 		
		completion of the service order will be prioritized		
		Process for critical care customers:		
		Call center agent issues service order		
		• "Hot Seat" agent is notified; agent verifies the service		
		order has been created and updated		
Distribution	1-75	Pole Inspection and Replacement/Reinforcement	NESC Table 261-1:	Randal Pryor,
Infrastructure		(Bates Nos. 1212-1213)	Strength factors for	Vice President
		CenterPoint Energy has over 1 million distribution poles on	braces, support	Underground and
		its distribution system. Distribution poles are inspected on a	hardware guys	Distribution
		10-year cycle, with approximately 10% of distribution poles	foundations, and	Modernization.
		being inspected annually	anchors (Bates No.	Incident
			1214)	Commander for
		Inspection process:		Hurricane Bervl
		 Use historic data to identify poles to be inspected in the 		
		upcoming year		
		• e.g. Data from 2015 is being used to identify poles to		
		be inspected in 2025		
		 18-step process that includes a visual inspection, manual 		
		excavation to assess decay, and boring/sounding to locate		
		internal voids		
		• Supporting guy wires, strains, and anchors are also		
		inspected		
		Reinforcement and replacement considerations:		
		• For poles that have remaining pole strength below NESC		
_		standard of 67%, a steel truss will be used to reinforce if:		
→		 Remaining strength is not at or below 13% 		
		 Steel truss can restore remaining pole strength to 75% 		

			 Pole meets current loading standards 		
			 Poles that do not meet criteria for reinforcement will be 		
			replaced		
		1-81,	Wind Loading Standard for Distribution Poles		Mandie Shook,
		1-82	(Bates Nos 1263-1264)		Vice President
			()		Flectric
			CenterPoint Energy's current wind loading standard for		Engineering
			distribution polos was adopted in 2022:		Engineering
			NECC 250C for outrome wind		
			= 110 + 120 + 1 + 100		
			 II0 mph or 132 mph, depending on proximity to Gulf Coast 		
			 NESC 250D for ico 		
			= 1000000000000000000000000000000000000		
			- 50 mph with 1/2-men ice		
			CenterPoint Energy designs distribution poles to meet NESC		
			standards that were in affect at the time of design.		
		1-76	Right-of-Way Widths	Distribution Standards	Randal Pryor
		1 / 0	(Bates No. 1215)	05-885 05-890 05-900	Vice President
			(Butos 140, 1213)	05-925 05-930 and 05-	Major
			Current standards for three phase and single phase everhead	040 (Bates Nes, 1216	Underground and
			distribution lines:	1221)	Distribution
			- Control Thes.	1221)	Madami atian
			• CenterPoint Energy only: 10 feet		Modernization,
			• Shared with dry utilities (e.g. gas, telecom): 14 feet		Incident
			• Shared with dry utilities and a wet utility (e.g. water): 16		Commander for
			feet		Hurricane Beryl;
					Eric Easton, Vice
			CenterPoint Energy's historic agreements that pre-date current		President, Grid
			standards may provide smaller rights-of-way.		Transformation
					and Investment
			Typically, CenterPoint Energy also has an aerial easement of		Strategy
			30 feet that begins 15-20 feet above ground.		
	· · ·	1-84	Distribution Pole Counts		Eric Easton, Vice
			(Bates No. 1276)		President, Grid
					Transformation
			Total distribution poles as of May 2024 1 165 862		and Investment
2			 Wood: 1 000 229 		Strategy
			HOOG, 1,000,227		L Ou allogy

-					
			 Fiberglass: 12,526 		
			• Steel: 6,042		
			 Steel tower: 79 		
			Concrete: 2,338		
			• Ductile iron: 1,013		
			• Foreign wood: 142,709		
			 Foreign fiberglass: 9 		
			• Foreign steel: 698		
			Foreign concrete: 219		
Ī		1-83,	Outages and Pole Replacements During Beryl	Sustained Outage	Deryl Tumlinson,
		1-85	(Bates Nos. 1265-1266, 1300)	Spreadsheet (Bates Nos.	Vice President,
		1-86		1267-1275); Pole	Distribution
			Approximately 200 of CenterPoint Energy's approximate	Replacement	Operations and
			1,800 distribution circuits did not experience a sustained	Spreadsheet (Bates No.	Service Delivery
			outage during Hurricane Beryl.	1284)	_
			CenterPoint Energy replaced approximately 3,025 distribution		
			poles during Hurricane Beryl restoration.		
	Transmission	1-92,	Design, Inspection, and Structure Failures	Transmission Structure	David Mercado,
	Infrastructure	1-93	(Bates No. 1349, 1351)	Failure List (Bates No.	Vice President,
				1350); Transmission	High Voltage and
			CenterPoint Energy designs its transmission circuits to the	Structure Inspection List	System
			latest applicable NESC standards for wind and ice loading,	(Bates Nos. 1352-1353)	Operations
			which are updated every five years. Transmission circuits are		
			inspected on a five-year cycle.		
			During Hurricane Beryl, 20 structures failed, 16 of which		
			caused an outage. The last inspection dates for the 20		
			structures that failed were:		
			• April 16, 2024: 1 structure		
			February 22, 2024: 14 structures		
			November 15, 2023: 1 structure		
			February 15, 2023: 1 structure		
			• April 26, 2022: 1 structure		
_			■ March 9, 2021: 1 structure		
60					

	Vegetation Management	1-95	Distribution Circuit Clearances		Randal Pryor,
	0 0		(Bates Nos. 1367-1368)		Vice President
					Major
			35 kV:		Underground and
			• Lateral: 10 feet		Distribution
			Below: 15 feet		Modernization.
					Incident
			12 kV:		Commander for
			Lateral: 7 feet		Hurricane Bervl
			 Below: 15 feet 		
		1-94	Staffing Levels		Randal Prvor
			(Bates Nos 1365-1366)		Vice President
					Major
			CenterPoint Energy internal staff		Underground and
			 1 manager 		Distribution
			 2 supervisors 		Modernization
			 6 distribution foresters 		Incident
			 2 transmission foresters 		Commander for
			 1 husiness analyst 		Hurricane Beryl
			- Tousiness analyst		fiumeane Deryr
			Contractor staff:		
			 8 foresters 		
			 608 personnel 		
		1-103	Vegetation Management Plan		Randal Pryor,
			(Bates No. 1380)		Vice President
					Major
			Beginning in January 2020, CenterPoint Energy used an		Underground and
			analytics model to prioritize vegetation management on		Distribution
			circuits based on several factors, including last trim date,		Modernization,
			vegetation caused outages, potential impact on critical loads,		Incident
			and overall customer count impacted.		Commander for
			* 		Hurricane Beryl
		1-99	Vegetation-Related Outages During Hurricane Beryl	Distribution Outage	Randal Pryor,
			(Bates No. 1372)	Spreadsheet;	Vice President
_				Transmission Outage	Major
4			Distribution: 2,643 vegetation-related sustained outages	Spreadsheet	Underground and

		greater than 1 minute		Distribution
				Modernization,
		Transmission: 17 vegetation-related outages		Incident
				Commander for
				Hurricane Bervl
Staffing and Mutual	1-107	Membership		Dervl Tumlinson.
Assistance		(Bates No. 1384)		Vice President.
				Distribution
		CenterPoint Energy is a member of the following mutual		Operations and
		assistance grouns:		Service Delivery
		 Texas Mutual Assistance Group 		
		Southeastern Electric Exchange		
		 Midwest Mutual Assistance Group 		
	1-114	Costs		Dervl Tumlinson
	1	(Bates No. 1395)		Vice President
				Distribution
		Rates for personnel and reimbursement of expenses are		Operations and
		agreed to in advance. Invoices submitted for costs and		Service Delivery
		expenses are reviewed to ensure compliance with contract		
		terms and are reasonable and prudent		
	1-115	Staging Sites	Staging Sites	Carla Kneinn
	1 11.5	(Bates Nos 1396-1397)	Spreadsheet (Bates Nos	Senior Vice
			1398-1399)	President
		CenterPoint Energy utilized 22 staging sites and 4 lodging	1376-1377	Procurement
		sites during Hurricane Beryl restoration:		Trocurement
		Total headcount: 13.612		
		 Distribution line skills: 10.361 		
		 Distribution line skills: 10,501 Transmission line skills: 245 		
		 Transmission mile skins, 243 Vegetation management: 2,817 		
		 Field support: 180 		
		= Damage assessors + 1.228		
		□ Internal: 200		
		 External: 1.010 		
		Staging site personnel include:		
15		Operations manager		
	1	I - Oporations manager	1	

		 Foreign crew coordinators Administration (e.g. check-in, lodging and bussing) and 		
		logistics (e.g. fuel, warehouseman)		
		 Information technology 		
		Cooking, janitorial		
Temporary Generation	1-133	 Cooking, janitorial <u>Deployment Process</u> (Bates No. 1615) 5 levels for deployment: Level 1 (notification): Vendor notified about possible deployment Level 2 (preparation): Vendor directed to prepare for potential deployment): Vendor directed to ready units and personnel for deployment and to arrange for transportation of units Level 3 (pre-deployment): Vendor is directed to transport and mobilize units to deployment sites Level 5 (recall): Units are recalled or re-deployed Deployment prioritization: Priority 1: Level 1 trauma centers, 100+ bed in-patient hospitals, cancer treatment centers Priority 2: City and county emergency management, first responder facilities, airport facilities Priority 3: Cooling centers Priority 4: Senior living, assisted living Priority 5: Small emergency rooms, dialysis 	Beryl TEEF Deployment Document (Bates Nos. 1616-1617); Emergency Operations Plan (Bates No. 372)	Eric Easton, Vice President, Grid Transformation and Investment Strategy
		 Priority 5: Smart emergency rooms, dratysts Priority 6: Clinics, pharmacies Priority 7: Grocery stores Priority 8: Commercial facilities that support logistics, supply chain, community and individual relief and restoration efforts 		
	1-133	Deployment During Hurricane Beryl Restoration	Bervl TEEF	Eric Easton Vice
		(Bates No. 1615)	Deployment Document	President Grid
ס			(Bates Nos. 1618-1620)	Transformation

TEEEF units available:	and Investment
 On hand prior to Hurricane Beryl: 	Strategy
■ 2 x 500 kW	
• 2 x 1 MW	
• 5 x 5 MW	
July 7th: 4 x 400 kW procured	
July 10th: 4 x 1.2 MW procured (mutual assistance)	
July 12th:	
• 3 x 230 kW procured	
 2 x 200 kW procured 	
 4 x 560 kW procured (mutual assistance) 	
 1 x 625 kW procured (mutual assistance) 	
July 13th: 3 x 625 kW procured (mutual assistance)	
TEEEF units were deployed 31 times at 28 sites, providing	
approximately 3,000 hours of electricity to the following	
sites:	
 Hospital/medical facilities: 7 	
 Senior/assisted living facilities: 9 	
 Water/sewer facilities: 2 	
 Cooling centers: 4 	
Emergency call center: 1	
 Community center: 1 	
Jail: 1	
 Non-profit organization housing families with 	
seriously ill children: 1	
 Water bottling facilities: 2 	