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919 Congress Avenue
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Austin, TX 78701
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PUBLIC UTILITY COMMISSION
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February 28, 2020

Ms. Ana Trevino
File Clerk
Public Utility Commission of Texas
1701 N. Congress Avenue
Austin, TX 78711

Re: Docket No. 50413 – *Entergy Texas, Inc.’s Addendum to its Service Quality Report*

Dear Ms. Trevino:

Please find the enclosed addendum to Entergy Texas, Inc.’s Service Quality Report filed in Docket No. 50413.

Sincerely,

Carl Olson
Mgr, Regulatory Affairs
Entergy Texas, Inc.
(512) 487-3985

Enclosure: Addendum to ETI’s Service Quality Report

**ADDENDUM OF ENTERGY TEXAS, INC. TO ITS
SERVICE QUALITY REPORT FOR THE 2019 REPORTING YEAR**

Report on Rivtrin Substation 269RV — 2nd year SAIDI Violation (2018)

Circuit 269RV served from Rivtrin Substation in Riverside, TX. The feeder's service area is predominately rural with issues including off-road construction, dense vegetation areas, and areas prone to flooding. It serves parts of two cities, Riverside and Trinity.

- 269RV is primarily a 34.5kV feeder with a total length of approximately 200 miles of circuit, which includes approximately 113 miles of 34.5kV, 62 miles of 13.2kV, and 25 miles of 4kV distribution line segments
- Serves 3,017 customers across two Counties: Trinity & Walker
- The feeder crosses the Trinity River basin which is very difficult to access during restoration activities
- The feeder is predominately overhead construction on wooden poles (182 miles)
- The feeder has approximately 18 miles of underground service, primarily in Westwood Shores

Rivtrin Substation 269RV was a first-year SAIDI violator in 2017. Of the outages experienced in 2017, 55 percent of the outages were during a storm or weather events. A large storm event resulted in a significant number of lightning and vegetation outages, which occurred between March 24th and 26th and accounted for over 1.2M customer minutes.

- 2017 outage causes:
 - Total Customer Minutes: 3,414,823/ SAIDI: 1144.4
 - Animal 0.2%
 - Equipment Failure 8.9%
 - Lightning 26.3%
 - Other 0.3%
 - Public Damage 6.5%
 - Unknown 5.8%
 - Vegetation 52.1%
 - 100%

The main feeder trunk, i.e. backbone, was inspected and repaired in 2014. An additional inspection of the backbone was completed in 2018 but did not reveal any significant defects. In addition, inspections were done on multiple devices on 269RV in late 2017/early 2018 to address the issues experienced on the feeder in 2017. This resulted in projects to replace a number of poles and crossarms as well as the installation of Hendrix ground wire on a number of structures to increase its lightning resilienc . These issues were corrected as shown below. Equipment inspections are conducted yearly, and equipment is replaced based on these findings. In 2018, approximately \$177,000 were spent on these patrols and repairs.

Rivtrin feeder 269RV was in violation for a second year for SAIDI in 2018. In 2018, approximately 44 percent of the outages experienced were during weather events; with almost one third of the customer minutes occurring during a weather event from March 18th to 20th.

- 2018 Outage causes:
 - Total Customer Minutes: 2,366,150/ SAIDI: 911
 - Animal 0.4%
 - Equipment Failure 22.1%
 - Lightning 35.2%
 - Other 2.1%
 - Public Damage 6.3%
 - Unknown 6.4%
 - Vegetation 27.5%
 - 100%

Multiple inspections were conducted in late 2018/early 2019, resulting in the following projects:

- 2019 Projects:
 - Patrol and maintenance \$22K
 - Overload Mitigation Project \$101K
 - Osrose Pole Inspection/Restoration/Grounding Repair \$567K
 - Replaced a manual switch with an independent pole operated (i.e. IPO) recloser \$38K

Vegetation clearing was also completed in May 2019, including the removal of 60 danger trees and trimming in three areas of Trinity.

The reliability work over in the last few years has improved the reliability of Rivtrin 269 such that it was not a repeat violator in 2019.