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DOCKET NO. 50413

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SERVICE QUALITY REPORT IN	§	PUBLIC UTILITY COMMISSION
ACCORDANCE WITH SUBST. R. §25.81	§	OF TEXAS
2019 REPORTING YEAR	§	

TEXAS-NEW MEXICO POWER COMPANY'S NOTICE OF FILING
ADDENDUM TO SERVICE QUALITY REPORT

COMES NOW, Texas-New Mexico Power Company ("TNMP") and files the attached Exhibit "A" constituting the Addendum to TNMP's 2019 Service Quality Report acknowledging actions taken and planned regarding any line identified as a repeat violation in the Final Order for Docket No. 49618.

Respectfully submitted,



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**COUNSEL FOR TEXAS-NEW MEXICO
 POWER COMPANY**

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EXHIBIT A

ADDENDUM TO SERVICE QUALITY REPORT

RE: 2018 2ND YEAR SAIDI VIOLATION

**TNMP Addendum Required By Docket No. 49618 –
Report on Winkler Co. #6 25K11 – 2nd year SAIDI Violation (2018)**

Circuit 25K11 out of the Winkler Co. #6 substation is in west Texas in a sparsely populated predominantly oil and gas producing area near Kermit, TX. This is a very long circuit with a small number of customers. This area is prone to violent weather, especially lightning and wind. This feeder is distant from TNMP's Pecos construction center and has areas off of public rights of way that are difficult to access. This adds considerably to response and restoration times.

- 25 kV circuit, 27 miles long, no SCADA support
- 42 customers total: 1 residential, and the balance oil and gas customers
- Construction: Overhead conductor, mostly wood poles
- Serviced from TNMP Kermit office
- Reliability challenges: heavy exposure to lightning and high winds; difficult to access issues due to sandy soil off of public rights of way

Winkler Co. # 6 25K11 was a first-year SAIDI violator in 2017, primarily due to an extended outage in November caused by a breaker failure. Breaker replacement required substation personnel from Pecos to be called out on a Sunday and bring the materials required for repairs to be made (9 hours).

- 2017 outage causes:
 - March - High winds, galloping phase (5,740 customer outage minutes)
 - March - High winds (2,460 customer outage minutes)
 - March - High winds (5,371 customer outage minutes)
 - April – Recloser battery failure (2,730 customer outage minutes)
 - November - Breaker failure (22,260 customer outage minutes)

To improve the performance of this circuit, TNMP took several actions in 2018. A complete circuit patrol was done, and required repairs (cross arm replacements, lightning arrestor replacements) were completed. In addition, an isolating switch and recloser were installed on the connection to a large customer to reduce faults and provide an isolation point. The substation transformer was replaced to address its age and to provide additional load capability. Finally, a pole-top recloser was installed at the approximate mid-point of the circuit (Hogg Road) to provide additional fault clearing and isolation capability.

- 2018 Expenditures:
 - Patrolled line, performed maintenance: \$142K (Cross arms, Lightning arrestors)
 - Installed air-switch and recloser: \$28K
 - Replaced substation transformer (25MVA) and 3-way high side switch: \$707K
 - Installed recloser on Hogg Road: \$31K

Winkler Co. #6 25K11 was a second-year SAIDI violator in 2018, primarily due to an extended outage in May caused by a bird faulting the high side bushings of the station breaker. The breaker was destroyed, and replacement required substation personnel from Pecos to be called out on a Sunday and bring the materials required for repairs to be made (10 hours).

- 2018 Outage causes:
 - May – High winds, galloping phase (153 customer outage minutes)
 - May – Bird caused Breaker damage (25,662 customer outage minutes)
 - June – Broken pole (2,940 customer outage minutes)
 - July – Fuse Blown (57 customer outage minutes)
 - July – Fuse Blown (184 customer outage minutes)
 - October – Lightning (48 customer outage minutes)
 - December – Jumper failure (738 customer outage minutes)

To improve the performance of this circuit, TNMP took several actions in 2019. The circuit was patrolled once again and miscellaneous repairs were made. In addition, 47 poles and 66 cross arms were identified for replacement, with this work completed by the end of the year. Four sets of fault indicators and one trip-saver were installed to provide additional fault clearing and locating capability.

- 2019 Expenditures:
 - Patrol line, perform maintenance \$57K
 - Change-out 47 poles, replace 66 cross arms \$452K
 - Install fault indicators \$8K
 - Install Trip-Saver \$15K

Winkler Co. #6 25K11 did not receive a reliability violation in 2019. To continue to improve the performance of this circuit, the following actions are planned for 2020:

- 2020 Planned Expenditures:
 - Patrol line, perform maintenance, including 15 lightning arrestors \$25K
 - Change-out 25 poles, perform repairs on additional 25 poles \$210K
 - Install additional Trip-Saver \$15K