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PROJECT NO. 55999

REPORTS OF THE ELECTRIC RELABILITY COUNCIL OF TEXAS	**§** **§**	**PUBLIC UTILITY COMMISSION OF TEXAS**

ELECTRIC RELIABILITY COUNCIL OF TEXAS, INC.'S
NOTICE OF ACCEPTANCE OF A TIER 3 TRANSMISSION PROJECT

Pursuant to ERCOT Protocol Section 3.11.4.9(1), Electric Reliability Council of Texas, Inc. (ERCOT) files this Notice of the ERCOT Regional Planning Group (RPG)'s acceptance of a Tier 3 transmission project submitted by Oncor Electric Delivery Company LLC (Oncor) and LCRA Transmission Services Corporation (LCRA TSC), as reflected in Attachments A-B. Oncor is the ERCOT-registered Transmission Service Provider (TSP) responsible for the transmission project. ERCOT is prepared to provide the Commission with any additional information it may request regarding this matter.

Dated: May 1, 2025

Respectfully Submitted,

/s/ Katherine Gross

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April 22, 2025

Mr. Eithar Nashawati
Senior Director, Asset Planning
Oncor Electric Delivery (Oncor)
2233-B Mountain Creek PKWY
Dallas, TX 75211-6716

Mr. Sandeep Borkar
Director, Transmission Planning
LCRA TSC
3505 Montopolis Drive
Austin, TX 78744 (Building D)

RE: Oncor Slat Flat Road to Barr Ranch to Reiter 138-kV Second Circuit Project

Dear Mr. Nashawati and Mr. Borkar:

The Electric Reliability Council of Texas (ERCOT) Regional Planning Group (RPG) has reviewed and accepted the following Tier 3 transmission project in accordance with ERCOT Protocol Section 3.11.4:

Oncor Slat Flat Road to Barr Ranch to Reiter 138-kV Second Circuit Project:

- Rebuild the existing Salt Flat Road 138-kV Switch by installing eight 138-kV, 3200 A circuit breakers in a breaker-and-a-half bus arrangement. The existing Salt Flat Road 138-kV Switch is owned by Oncor;
- Install one 3200 A, 138-kV circuit breaker in a ring bus arrangement at existing Barr Ranch 138-kV Switch. The existing Barr Ranch 138-kV Switch is owned by Oncor;
- Install two 3200 A, 138-kV circuit breakers in a breaker-and-a-half bus arrangement at Reiter 138-kV Switch. The existing Reiter 138-kV Switch is owned by Oncor;
- Disconnect the existing Crane to Apple 69-kV line section from Apple 69-kV substation. The existing Crane and Apple 69-kV substations are owned by Oncor;
- Disconnect and de-energize the existing Odessa North to Pegasus Tap 69-kV line section from structure 41/1 to Odessa North. The existing Odessa North 69-kV switch and Pegasus Tap 69-kV are owned by Oncor;
- Disconnect and de-energize the 345/138-kV Autotransformer #2 at Odessa EHV Switch. The existing Odessa EHV 345-kV and 138-kV Switch are owned by Oncor;
- Establish a new Apple Tap 138-kV by installing an H-frame structure at Pegasus Tap (structure 28/2) 69-kV and converting to 138-kV operation. The existing Pegasus Tap 69-kV is owned by Oncor;

- Rebuild and convert the existing Pegasus Tap to Apple 69-kV transmission line and Apple 69-kV substation to 138-kV operation using 138-kV double-circuit capable structures with one circuit in place, with normal and emergency ratings of 614 MVA or greater, approximately 4.5-mile. The existing Pegasus Tap 69-kV and Apple 69-kV substation are owned by Oncor;

- Create a new Apple Tap (f/k/a Pegasus Tap) to Reiter 138-kV transmission line with normal and emergency ratings of 614 MVA or greater, approximately 6.4-mile;
  - Rebuild and convert the existing Pegasus Tap to Odessa North 69-kV line from Pegasus Tap (structure 28/2) due north to structure 41/1 using 138-kV double-circuit capable structures with one circuit in place, with normal and emergency ratings of 614 MVA or greater, approximately 2.3-mile;
  - Install a new 138-kV second circuit on the vacant side of the double-circuit structures pertaining to the Wolf to Monahans to Odessa EHV 138 kV Line from structure 41/1 to Reiter 138-kV Switch, with normal and emergency ratings of 614 MVA or greater, approximately 4.1-mile;
- Create a new Salt Flat Road to Barr Ranch to Apple Tap (f/k/a Pegasus tap) 138-kV transmission line with normal and emergency ratings of 614 MVA or greater, approximately 36.1-mile;
  - Install a new 138-kV second circuit on the vacant side of the existing double-circuit capable structures, from Salt Flat Road Switch to Barr Ranch to Pleasant Farms with normal and emergency ratings of 614 MVA or greater, approximately 33.6-mile;
  - Rebuild and convert the existing idle Pleasant Farms to Pegasus Tap 69-kV transmission line to 138-kV operation using 138-kV double-circuit capable structures with one circuit in place, using a conductor rated normal and emergency ratings of 614 MVA or greater, approximately 2.5-mile; The existing Pleasant Farms 138-kV Substation is owned by LCRA;
- Reconfigure the existing Johnson Draw 138-kV Point of Delivery (POD), the new Pheasant 138-kV POD and the new Roundup 138-kV POD to tap into the new Salt Flat Road to Barr Ranch 138-kV second circuit;
- Ensure all terminal and associated equipment meet or exceed 3200 A for 138-kV.

Should you have any questions please contact me at any time.

Sincerely,

Kristi Hobbs

Kristi Hobbs
Vice President, System Planning and Weatherization
Electric Reliability Council of Texas

cc:

Pablo Vegas, ERCOT
Woody Rickerson, ERCOT
Prabhu Gnanam, ERCOT
Robert Golen, ERCOT
Brandon Gleason, ERCOT

SALT FLAT ROAD – BARR RANCH – REITER 138 KV SECOND CIRCUIT

ERCOT RPG Submittal
March 13, 2025

Business and Operations Services
Assets Planning

Table of Contents

Executive Summary

Oncor Electric Delivery Company LLC (Oncor) proposes a Tier 3 project (Proposed RPG Project) that will:

- Rebuild the Salt Flat Road 138 kV Switch by installing eight 138 kV, 3200 A circuit breakers in a breaker-and-a-half bus arrangement;
- Install one 3200 A, 138 kV circuit breaker in a ring bus arrangement at Oncor's Barr Ranch 138 kV Switch;
- Install two 3200 A, 138 kV circuit breakers in a breaker-and-a-half bus arrangement at Oncor's Reiter 138 kV Switch;
- Install a new 33.6-mile 138 kV second conductor on the vacant side of the existing double-circuit capable structures, from Salt Flat Road Switch – Barr Ranch – Pleasant Farms (LCRA), using a conductor rated 2569 A or greater (normal and emergency rating of 614 MVA);
- Reconfigure the existing Johnson Draw 138 kV Point of Delivery (POD), the new Pheasant 138 kV POD and the new Roundup 138 kV POD so they each connect to the new Salt Flat Road – Barr Ranch 138 kV second circuit;
- Rebuild and convert the 2.5-mile line from Pleasant Farms (LCRA) to Pegasus Tap (structure 28/2) to 138 kV operation using 138 kV double-circuit capable structures with one circuit in place, using a conductor rated 2569 A or greater (normal and emergency rating of 614 MVA);
- Install an H-frame structure at structure 28/2 to establish the new Apple Tap. Rebuild and convert the 4.5-mile Pegasus Tap – Apple 69 kV line section to 138 kV operation using 138 kV double-circuit capable structures with one circuit in place, using a conductor rated 2569 A or greater (normal and emergency rating of 614 MVA);
    - Disconnect the existing Crane – Apple 69 kV line section from Apple Substation;
    - Connect the existing Apple Substation so that it is served radially from the new Apple Tap and convert to 138 kV operation;
- Rebuild and convert 2.3 miles of the existing Pegasus Tap – Odessa North 69 kV line from Pegasus Tap (structure 28/2) due north to the intersection with the Wolf – Monahans – Odessa EHV 138 kV Line at structure 41/1 using 138 kV double-circuit capable structures with one circuit in place, using a conductor rated 2569 A or greater (normal and emergency rating of 614 MVA);
    - Disconnect and de-energize the existing Odessa North – Pegasus Tap 69 kV line section from structure 41/1 to Odessa North;
- Install a new 4.1-mile, 138 kV second conductor on the vacant side of the double-circuit structures pertaining to the Wolf – Monahans – Odessa EHV 138 kV Line from structure 41/1 to Reiter 138 kV Switch, using a conductor rated 2569 A or greater (normal and emergency rating of 614 MVA);
- Disconnect and de-energize Autotransformer #2 at Odessa EHV 345/138 kV Switch; and
- Ensure all terminal and associated equipment will meet or exceed 3200 A for 138 kV.

Oncor continues to experience significant load growth in this area of West Texas due to the high level of activities in the oil and gas industry. Steady state assessments of the existing transmission facilities in this area of West Texas indicate that by the summer of 2026, low voltages are seen at several load-serving substations along the same corridor under post-contingency conditions. Loading along this corridor has increased with the addition of new PODs in the immediate area.

The Proposed RPG Project will resolve all identified voltage violations in the area, improve system operational flexibility, reduce customer exposure, increase system load serving capacity, and create a new 138 kV pathway with a stronger source in the area.

This $63.88 million Tier 3 project in Ector and Midland counties is recommended for construction to meet a December 2025 in-service date. No portion of this Proposed RPG Project is expected to require a Certificate of Convenience and Necessity (CCN). The projected in-service date may change based on construction progress. The cost estimate accounts for the expectation that some construction activities will occur in an energized transmission line corridor. If necessary, Oncor will work with ERCOT to develop and implement Constraint Management Plans (CMPs) such as line sectionalizing or mobile equipment/capacitor installation based on summer 2025 and 2026 operational conditions.

Introduction

This submittal describes the need for the Proposed RPG Project in Ector and Midland counties. Oncor continues to see load growth in this area of west Texas due to the high levels of activity in the oil and gas industry. The need in this area is mainly driven by new loads and electrification activities, including conversion of gas-powered equipment to electrical operation and moving load from on-site generation to the transmission grid. The addition of new industrial loads in the area results in low voltages at twelve stations in the area. The Proposed RPG Project is needed to relieve low voltages to meet NERC, ERCOT, and Oncor's planning reliability standards/criteria. Figures 1 and 2 below show an area map and current configuration of the transmission system in the area of the Proposed RPG Project.

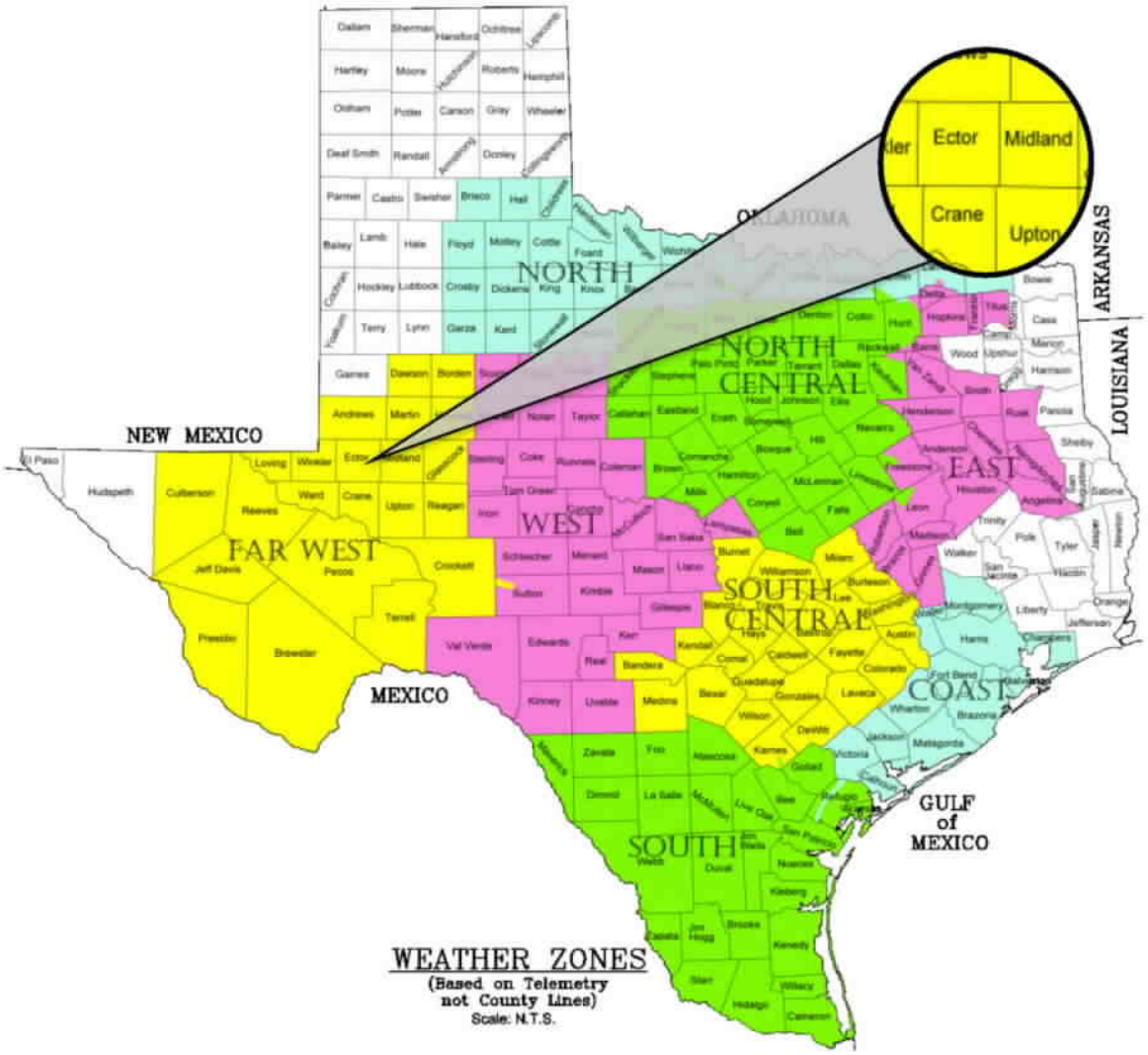

Figure 1. Proposed RPG Project Area Map

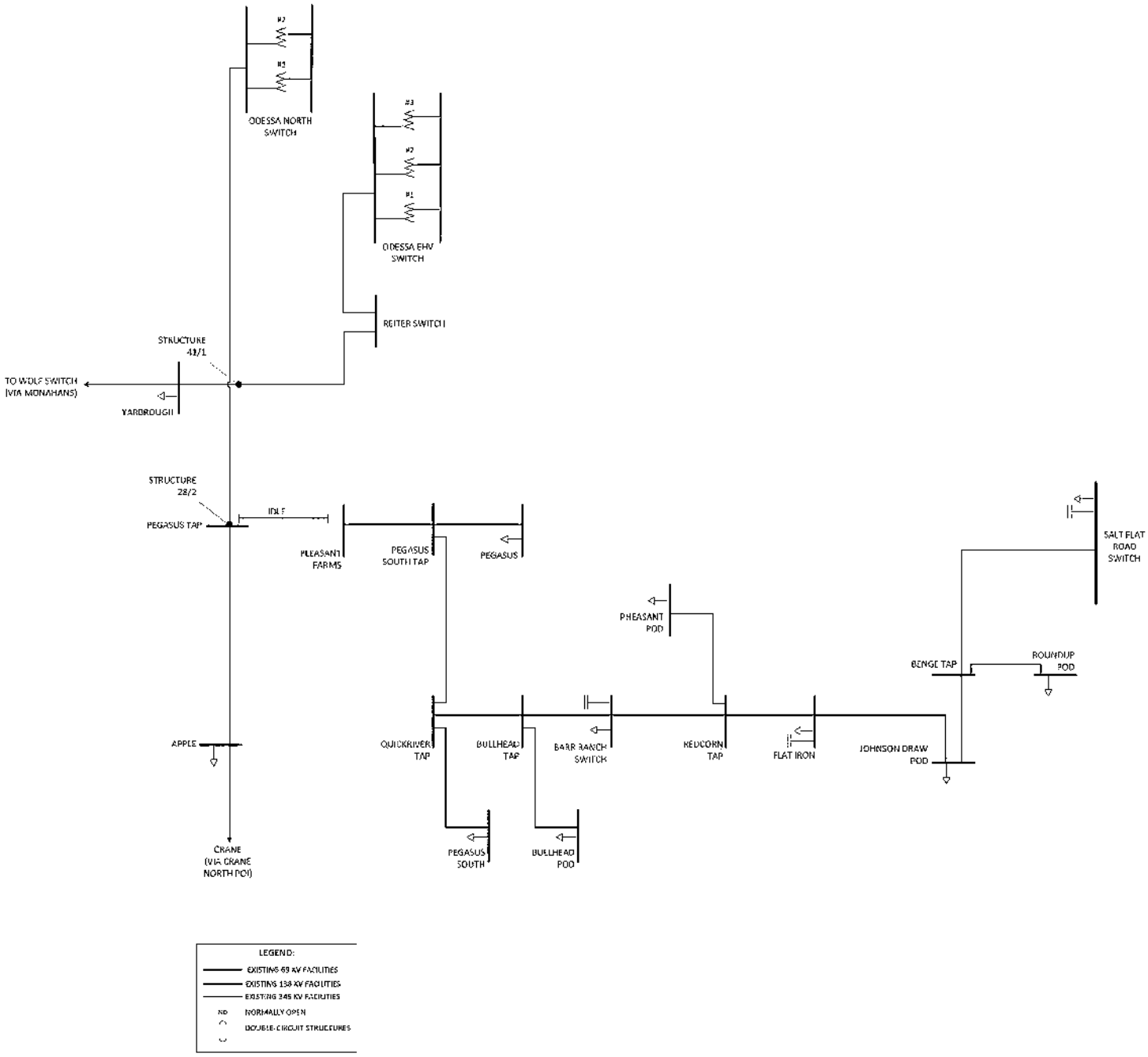

Figure 2. Study Area One-Line Diagram Before the Proposed RPG Project

Purpose and Necessity

Steady-State Analysis

Oncor steady state assessments of the existing transmission facilities in this area of West Texas indicate that by the summer of 2026, low voltages are seen at several load-serving substations in the area of the Proposed RPG Project under post-contingency conditions. The cases used for this study were the ERCOT Steady State Working Group (SSWG) cases published on October 2023, (23SSWG_2026_SUM1_U1_FINAL_10092023.sav, 23SSWG_2027_SUM1_U1_FINAL_10092023.sav, and 23SSWG_2029_SUM1_U1_FINAL_10092023.sav). All contracted load since October 2023 was added to the study case. Additionally, the following RPG-approved projects were included in the analysis:

- Rockhound 345/138 kV Switch and Grey Well Draw – Buffalo 2nd 138 kV Circuit Project (accepted by RPG 02/06/2024);
- Prairieland 345/138 kV Switch and Prairieland Switch to Quartz Sand Switch/Hog Mountain POD 138 kV Line Project (accepted by RPG 04/02/2024); and
- West Texas 345 kV Infrastructure Rebuild Project (accepted by RPG 05/16/2024).

The post-contingency conditions that result in low voltage violations include multiple contingency scenarios per NERC Standard TPL-001-5.1 and ERCOT Planning Guide Reliability Performance Criteria 4.1.1.2 1(d) criteria. The results justifying the need for the Proposed RPG Project and subsequent results after the Proposed RPG Project is completed are summarized in Table 1 below.

Area Voltages										
NERC Category	Contingency		Monitored Bus Number	Monitored Bus Name	Voltage (p.u.)					
	PSSE Bus Numbers	Elements			2026 Summer		2027 Summer		2029 Summer	
					Pre-Project	Post-Project	Pre-Project	Post-Project	Pre-Project	Post-Project
P2.1	Redacted		18697	ROUNDUP_P8	Unsolved Power Flow*	0.9407	Unsolved Power Flow*	0.9466	Unsolved Power Flow*	0.9428
			18698	BENGE_T8		0.9439		0.9497		0.9459
			11344	JHNSONDR_P8		0.9455		0.9513		0.9475
			11217	FLATIRON_8		0.9901		0.9942		0.9915
			11235	BARRNCH_8		0.9725		0.9781		0.9744
			18661	BULLHEAD_P8		0.9683		0.9742		0.9711
			18660	BULLHEADT_8		0.9695		0.9754		0.9723
			1237	SOPGASUS_8		0.9693		0.9752		0.9721
			11234	QUICKRVER_T8		0.9695		0.9754		0.9724
			1235	PEGASUS_8		0.9709		0.9774		0.9745
			1236	SPEGSTAP_8		0.9723		0.9788		0.9759
			71230	L_PLEAFA8_1Y		0.9807		0.9877		0.9850
P2.1	1236 – 71230	Pleasant Farms – Pegasus South Tap 138 kV Line Section	1235	PEGASUS_8	0.8946	0.9674	0.9177	0.9645	0.8838	0.9658
			1236	SPEGSTAP_8	0.8961	0.9688	0.9193	0.9659	0.8854	0.9672
			18661	BULLHEAD_P8	0.8978	0.9703	0.9209	0.9675	0.8871	0.9687
			1237	SOPGASUS_8	0.8984	0.9710	0.9215	0.9681	0.8877	0.9694
			11234	QUICKRVER_T8	0.8987	0.9712	0.9219	0.9684	0.8880	0.9696
			18660	BULLHEADT_8	0.8991	0.9715	0.9222	0.9687	0.8884	0.9700
			11235	BARRNCH_8	0.9098	0.9807	0.9329	0.9788	0.8996	0.9794
			11217	FLATIRON_8	0.9210	0.9870	0.9432	0.9844	0.9128	0.9858
			11344	JHNSONDR_P8	0.9258	0.9841	0.9475	0.9813	0.9187	0.9831
			18697	ROUNDUP_P8	0.9269	0.9828	0.9482	0.9799	0.9203	0.9818
			18698	BENGE_T8	0.9301	0.9858	0.9514	0.9830	0.9235	0.9849
			71230	L_PLEAFA8_1Y	0.9817	0.9925	0.9986	0.9986	0.9935	0.9976
P4.2, P6.1.1	Redacted		18697	ROUNDUP_P8	Unsolved Power Flow*	0.9397	Unsolved Power Flow*	0.9499	Unsolved Power Flow*	0.9400
			18698	BENGE_T8		0.9428		0.9531		0.9432
			11344	JHNSONDR_P8		0.942		0.9522		0.9424
			11217	FLATIRON_8		0.9469		0.9571		0.9473
			11235	BARRNCH_8		0.9481		0.9579		0.9489
			18661	BULLHEAD_P8		0.9471		0.9563		0.9491
			18660	BULLHEADT_8		0.9484		0.9576		0.9504
			1237	SOPGASUS_8		0.9484		0.9575		0.9504
			11234	QUICKRVER_T8		0.9486		0.9578		0.9507
			1235	PEGASUS_8		0.9537		0.9627		0.9568
			1236	SPEGSTAP_8		0.9551		0.9642		0.9582
			71230	L_PLEAFA8_1Y		0.9687		0.9775		0.9728

*Unsolved Power Flow due to extraordinary area low voltages

Table 1. Worst Area Voltages

Dynamic Analysis

Oncor performed a dynamic analysis to evaluate the impact of the addition of the Proposed RPG Project on the transmission system. The analysis was conducted using the 2023 Dynamic Working Group (DWG) 2026 summer peak and 2026 High Wind Low Load (HWLL) cases (2026_SP_Final_NonCnv35.sav and 2026_HWLL_Final_NonCnv35.sav). System topology updates necessary to implement the Proposed RPG Project were used in the study case. The results of the stability assessment, with the addition of the Proposed RPG Project, demonstrate that there was no adverse effect on the transmission system with the Proposed RPG Project in-service. Oncor's most recent annual assessment indicates there are no known dynamic stability issues in this area. Oncor will continue to perform annual dynamic analysis for this area.

Short-Circuit Study

Oncor evaluated the short-circuit impacts of the Proposed RPG Project using the System Protection Working Group (SPWG) case (23_SPWG_2026_FY_11062023_FINAL). The SPWG case was modified to include changes associated with the Proposed RPG Project, as well as other Oncor system changes that occurred since the development of the SPWG case. The analysis revealed that the Proposed RPG Project in conjunction with the Wolf – Reiter 138 kV Line RPG Project resulted in five overdutied 138 kV breakers at Odessa EHV 138 kV Switch. To resolve the five overdutied circuit breakers, Odessa EHV 345/138 kV Autotransformer #2 will be disconnected and de-energized prior to or in conjunction with the energization of the Proposed RPG Project. Oncor will continue to perform annual short-circuit studies to assess the impact of future projects.

Subsynchronous Resonance (SSR) Screening

The Proposed RPG Project involves only 138 kV infrastructure and therefore does not require an SSR screening, per ERCOT Protocol 3.22.1.3. As such, Oncor did not perform an SSR analysis.

Project Description

In order to address the identified reliability concerns, Oncor recommends the following:

- Rebuild the Salt Flat Road 138 kV Switch by installing eight 138 kV, 3200 A circuit breakers in a breaker-and-a-half bus arrangement;
- Install one 3200 A, 138 kV circuit breaker in a ring bus arrangement at Oncor's Barr Ranch 138 kV Switch;
- Install two 3200 A, 138 kV circuit breakers in a breaker-and-a-half bus arrangement at Oncor's Reiter 138 kV Switch;
- Install a new 33.6-mile 138 kV second conductor on the vacant side of the existing double-circuit capable structures, from Salt Flat Road Switch – Barr Ranch – Pleasant Farms (LCRA), using a conductor rated 2569 A or greater (normal and emergency rating of 614 MVA);
- Reconfigure the existing Johnson Draw 138 kV Point of Delivery (POD), the new Pheasant 138 kV POD and the new Roundup 138 kV POD so they each connect to the new Salt Flat Road – Barr Ranch 138 kV second circuit;
- Rebuild and convert the 2.5-mile line from Pleasant Farms (LCRA) to Pegasus Tap (structure 28/2) to 138 kV operation using 138 kV double-circuit capable structures with one circuit in place, using a conductor rated 2569 A or greater (normal and emergency rating of 614 MVA);
- Install an H-frame structure at structure 28/2 to establish the new Apple Tap. Rebuild and convert the 4.5-mile Pegasus Tap – Apple 69 kV line section to 138 kV operation using 138 kV double-circuit capable structures with one circuit in place, using a conductor rated 2569 A or greater (normal and emergency rating of 614 MVA);
    - Disconnect the existing Crane – Apple 69 kV line section from Apple Substation;
    - Connect the existing Apple Substation so that it is served radially from the new Apple Tap and convert to 138 kV operation;
- Rebuild and convert 2.3 miles of the existing Pegasus Tap – Odessa North 69 kV line from Pegasus Tap (structure 28/2) due north to the intersection with the Wolf – Monahans – Odessa EHV 138 kV Line at structure 41/1 using 138 kV double-circuit capable structures with one circuit in place, using a conductor rated 2569 A or greater (normal and emergency rating of 614 MVA);
    - Disconnect and de-energize the existing Odessa North – Pegasus Tap 69 kV line section from structure 41/1 to Odessa North;
- Install a new 4.1-mile, 138 kV second conductor on the vacant side of the double-circuit structures pertaining to the Wolf – Monahans – Odessa EHV 138 kV Line from structure 41/1 to Reiter 138 kV Switch, using a conductor rated 2569 A or greater (normal and emergency rating of 614 MVA);
- Disconnect and de-energize Autotransformer #2 at Odessa EHV 345/138 kV Switch; and
- Ensure all terminal and associated equipment will meet or exceed 3200 A for 138 kV.

One-Line Diagram

Figure 3 shows a one-line diagram with dashed elements depicting the Proposed RPG Project.

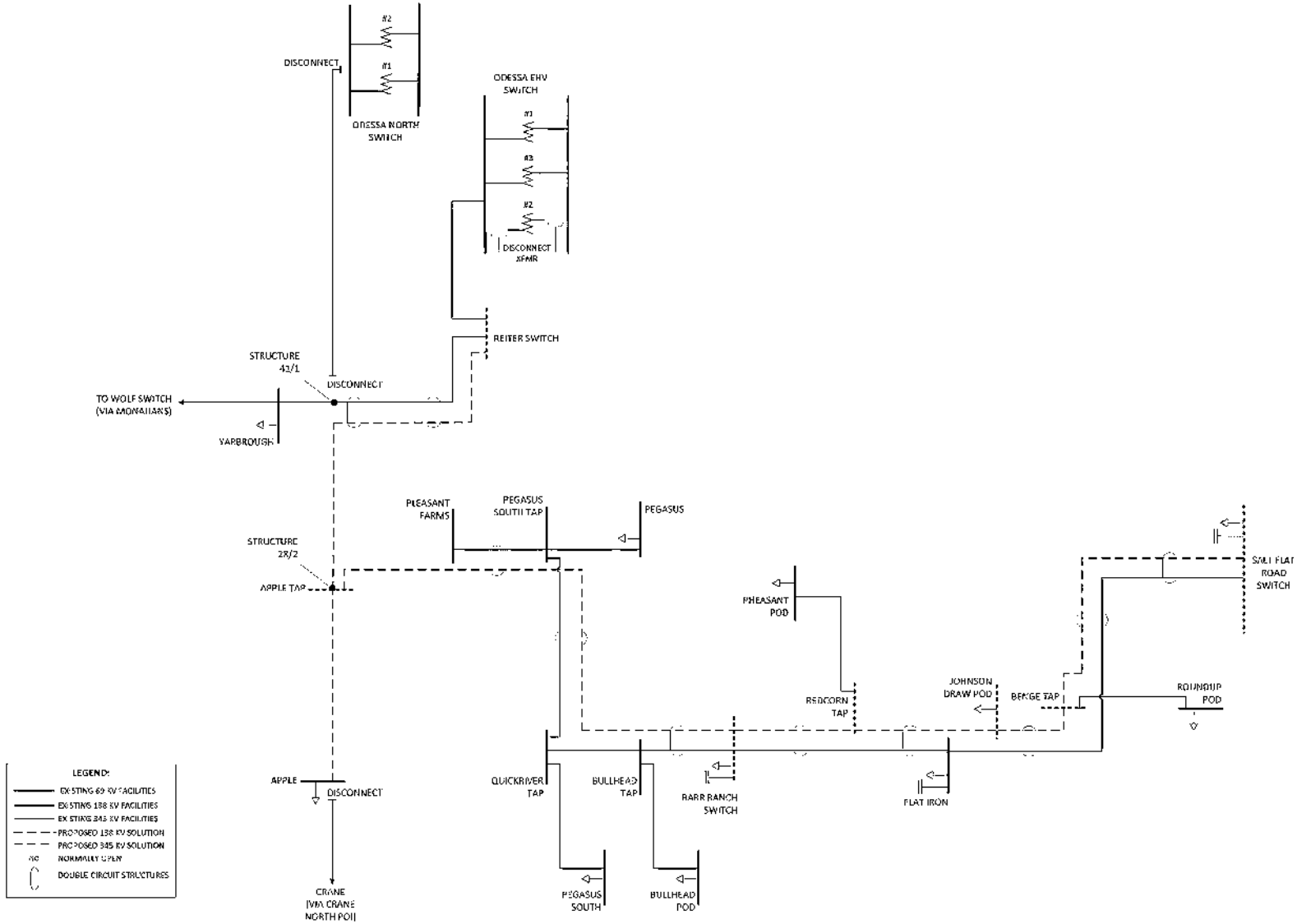

Figure 3. Proposed RPG Project One-Line Diagram

Alternative Solution

As an alternative to constructing the Proposed RPG Project, Oncor considered constructing a new Salt Flat Road – Barr Ranch – Reiter 138 kV Line on separate structures within new right-of-way (ROW). However, this solution would not adequately support future load requests in the area. Oncor does not recommend this alternative solution because, unlike the Proposed RPG Project, it does not address all of the identified post contingency low voltages. Given the lack of existing ROW available to expand networking in the study area, the new line would need to undergo a CCN review and land acquisition process. This would add considerable complexity and time requirements to this alternative's completion and render it highly unlikely to meet the December 2025 proposed in-service date to serve the growing load demand. This alternative would also be more expensive compared to the Proposed RPG Project.

Another alternative considered was the addition of a 110.4 Mvar 138 kV capacitor bank at the Pheasant 138 kV POD. Oncor does not recommend this alternative because it does not mitigate all of the identified post-contingency low voltages and does not improve the load-serving capacity of the transmission system in this area of West Texas, which is experiencing high load growth.

Recommendation

Oncor recommends the following Proposed RPG Project as the best solution to resolve the post-contingency voltage violations identified in the analysis of the study area.

- Rebuild the Salt Flat Road 138 kV Switch by installing eight 138 kV, 3200 A circuit breakers in a breaker-and-a-half bus arrangement;
- Install one 3200 A, 138 kV circuit breaker in a ring bus arrangement at Oncor's Barr Ranch 138 kV Switch;
- Install two 3200 A, 138 kV circuit breakers in a breaker-and-a-half bus arrangement at Oncor's Reiter 138 kV Switch;
- Install a new 33.6-mile 138 kV second conductor on the vacant side of the existing double-circuit capable structures, from Salt Flat Road Switch – Barr Ranch – Pleasant Farms (LCRA), using a conductor rated 2569 A or greater (normal and emergency rating of 614 MVA);
- Reconfigure the existing Johnson Draw 138 kV Point of Delivery (POD), the new Pheasant 138 kV POD and the new Roundup 138 kV POD so they each connect to the new Salt Flat Road – Barr Ranch 138 kV second circuit;
- Rebuild and convert the 2.5-mile line from Pleasant Farms (LCRA) to Pegasus Tap (structure 28/2) to 138 kV operation using 138 kV double-circuit capable structures with one circuit in place, using a conductor rated 2569 A or greater (normal and emergency rating of 614 MVA);
- Install an H-frame structure at structure 28/2 to establish the new Apple Tap. Rebuild and convert the 4.5-mile Pegasus Tap – Apple 69 kV line section to 138 kV operation using 138 kV double-circuit capable structures with one circuit in place, using a conductor rated 2569 A or greater (normal and emergency rating of 614 MVA);
    - Disconnect the existing Crane – Apple 69 kV line section from Apple Substation;
    - Connect the existing Apple Substation so that it is served radially from the new Apple Tap and convert to 138 kV operation;

- Rebuild and convert 2.3 miles of the existing Pegasus Tap – Odessa North 69 kV line from Pegasus Tap (structure 28/2) due north to the intersection with the Wolf – Monahans – Odessa EHV 138 kV Line at structure 41/1 using 138 kV double-circuit capable structures with one circuit in place, using a conductor rated 2569 A or greater (normal and emergency rating of 614 MVA);
    - Disconnect and de-energize the existing Odessa North – Pegasus Tap 69 kV line section from structure 41/1 to Odessa North;
- Install a new 4.1-mile, 138 kV second conductor on the vacant side of the double-circuit structures pertaining to the Wolf – Monahans – Odessa EHV 138 kV Line from structure 41/1 to Reiter 138 kV Switch, using a conductor rated 2569 A or greater (normal and emergency rating of 614 MVA);
- Disconnect and de-energize Autotransformer #2 at Odessa EHV 345/138 kV Switch; and
- Ensure all terminal and associated equipment will meet or exceed 3200 A for 138 kV.

This Proposed RPG Project will meet reliability requirements, maintain acceptable system voltages, improve overall system strength, and provide adequate transmission capacity for the system under pre- and post-contingency conditions. Oncor will work with ERCOT to develop and implement CMPs based on summer 2025 and 2026 operational conditions as necessary. The estimated cost for this Tier 3 Proposed RPG Project is $63.88 million, based on the expectation that some elements of this project will be constructed using energized (hot) work processes.