

# Sharyland Driver to Einstein 138 kV Line Project – ERCOT Independent Review Scope

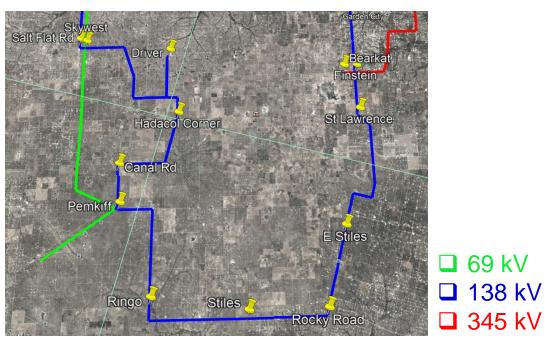
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**Regional Planning Group** 

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### Introduction

- □ Sharyland submitted Driver to Einstein 138 kV Line Project for Regional Planning Group review in September 2018.
  - □ Sharyland's proposed RPG upgrades are to address voltage violations and voltage recovery issues under NERC Category P1 conditions (outage of 138 kV Driver Skywest) due to load growth on the Sharyland 138 kV system in Stanton.



\*Exhibit 1: Study region in Sharyland ERCOT RPG submittal



## EIR Scope

Ц	Vo	Itage Stability and Dynamic Stability Analysis
		Study Seed Case: 2024 DWG Summer Peak Flat Start
		Topology and Area Load: 2023 condition
		Study Region: West and Far West
		Criteria: NERC TPL and ERCOT Planning Guides
	Ste	eady State and Economic Analysis
		May be performed on the ERCOT recommended option
	Stu	udy Base Case Development
		Update the seed case to reflect 2023 condition in the study region
		Notable transmission addition
		☐ Far West 2 Project in service
		☐ Bearkat Project in service
		New Generation projects that meet PG 6.9(1) prior to case building in the study region will be added
	Dy	namic Load Model
		The dynamic load model(s) provided by TSP(s) will be incorporated



## Contingencies and Criteria

 Planning Events: NERC TPL-001-4 and ERCOT Specific Events defined in Planning Guide Section 4

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- ☐ Monitor all transmission lines and transformers in study region (excluding GSU)
- Use Rate A for Normal Conditions
- Use Rate B for Emergency Conditions

#### □ Voltages

- ☐ Monitor all buses 60 kV and above in the study region
- ☐ Voltages exceeding their pre-contingency and post-contingency limits
- ☐ Voltage deviations exceeding 8% on non-radial load busses

#### □ Dynamic Performance

☐ Consistent with NERC TPL 001-4 and ERCOT Planning Criteria defined in PG Section 4



## **Timeline**

#### □ RPG Review Status

- ✓ Received at ERCOT System Planning: September 17, 2018
- ✓ Submitted to RPG for comment: September 18, 2018
- ✓ End of comment period: October 9, 2018
- ✓ End of study mode: November 14, 2018
- ☐ ERCOT Independent Review: In Progress (tentative completion: March, 2019)

