

### **Proposed projects**

- Friars Doublet Tap Reconductor
- New 500kV Miguel-Suncrest
- Appendix





**Driving Factors:** During Peak Load Maximum generation, P7 N-2 Contingency will cause an overload on TL13810A (Friars – Doublet Tap) by 6% in 2026

Original ISD:

XXXX

District:

Metro

2020 ISD:

XXXX

ISD:

6/1/2022

Project:

2021-2378

Project Title:

During heavy north bound flow at SO, P7 N-2 Contingency will cause a higher overload on TL13810A (Friars – Doublet Tap) as of today Scope:

Friars – Doublet Tap Reconductor

Upgrade TL13810A to its full line capacity from 150 MVA to 204 MVA by reconductoring 9620 ft of 400 CU wire with 636 ACSR

Cost:

\$5.5 Million (ISD 2022)

**Alternative:** 

Rearrange TL23013 and TL6959 Cost: \$19 Million (ISD 2026)

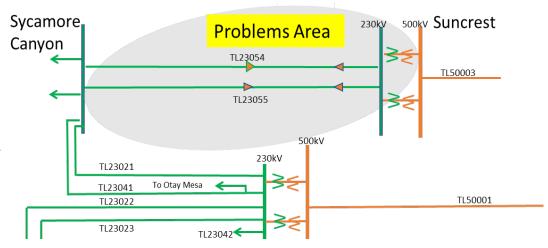
**Benefits:** Optimize the TL13810A circuit capacity and minimize the RAS action tripping generation in Otay Mesa area. Improve Operation flexibility

A Sempra Energy utility"

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## **New 500kV Miguel-Suncrest**

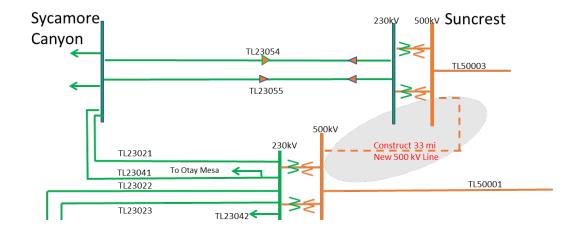
- Existing NERC reliability overloads on TL 23054 and TL 23055<sup>1</sup>
- A RAS has been established to mitigate these overloads, however the RAS is not effective
- During Peak Load, P3 (PEN gen and ECO-ML) Contingency will cause an overload on TL 23054 and TL23055 by 105% in 2023
- During Peak Load Heavy Renewable, P1 (ECO –ML 500kV) Contingency will cause an overload on TL 23054 and TL23055 by 115% in 2023





#### Solution

- Construct a new 33 miles 500kV line between Miguel and Suncrest (\$335M - \$600M)<sup>1</sup>
  - \$200M \$370M for Tx
  - \$75M \$125M for the Sub
  - \$60M \$100M Land/ROW (~30% of Tx)
- Key features include:
  - Reinforce import Path
  - Provide a second 500kV connection to Miguel and Suncrest
  - Improve system reliability by eliminating SOL violation on TL 23054 & TL 23055
  - Increase operational flexibility
  - Provide economic benefits by reducing import congestion





# Thank you

Please email <u>dstekeste@sdge.com</u> for more information

