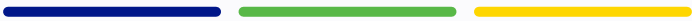




SDG&E 2026-2027 TPP Proposals



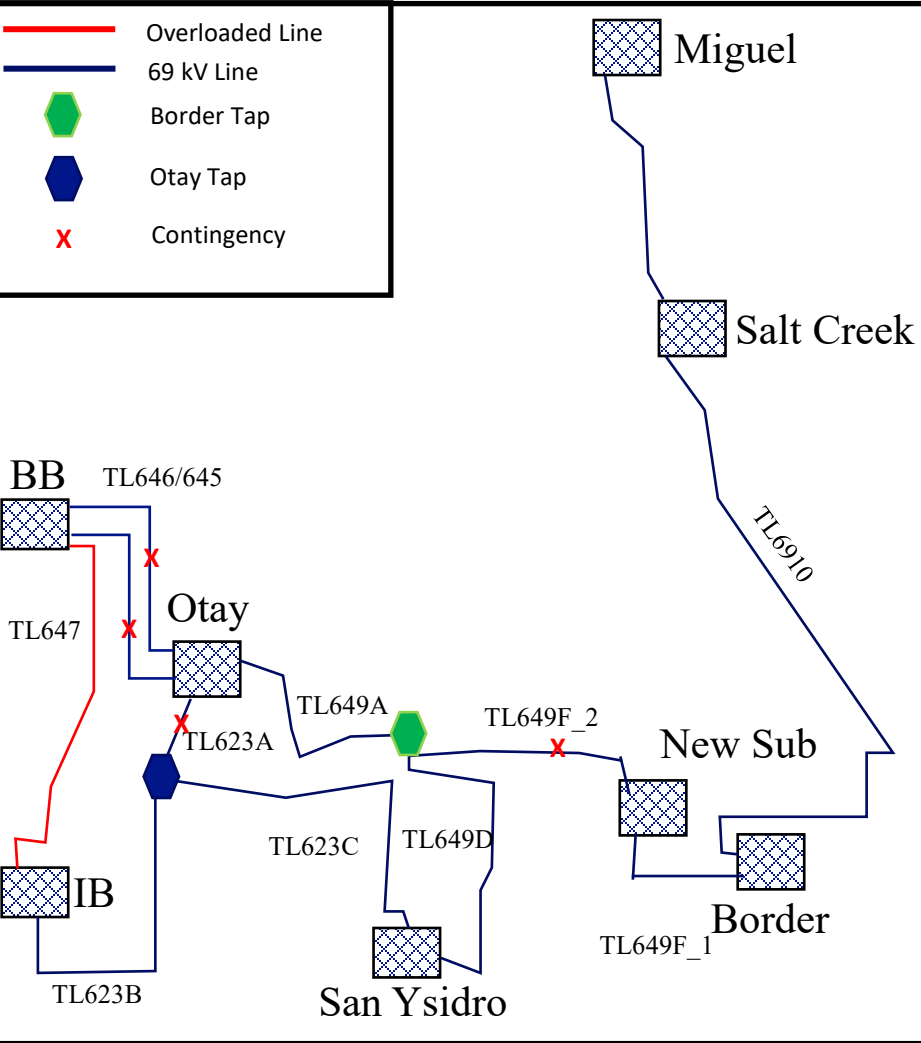
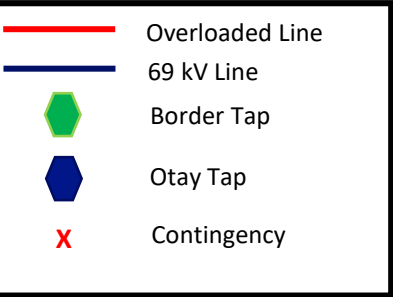


2026-2027 TPP Border Pocket Reconductor Projects

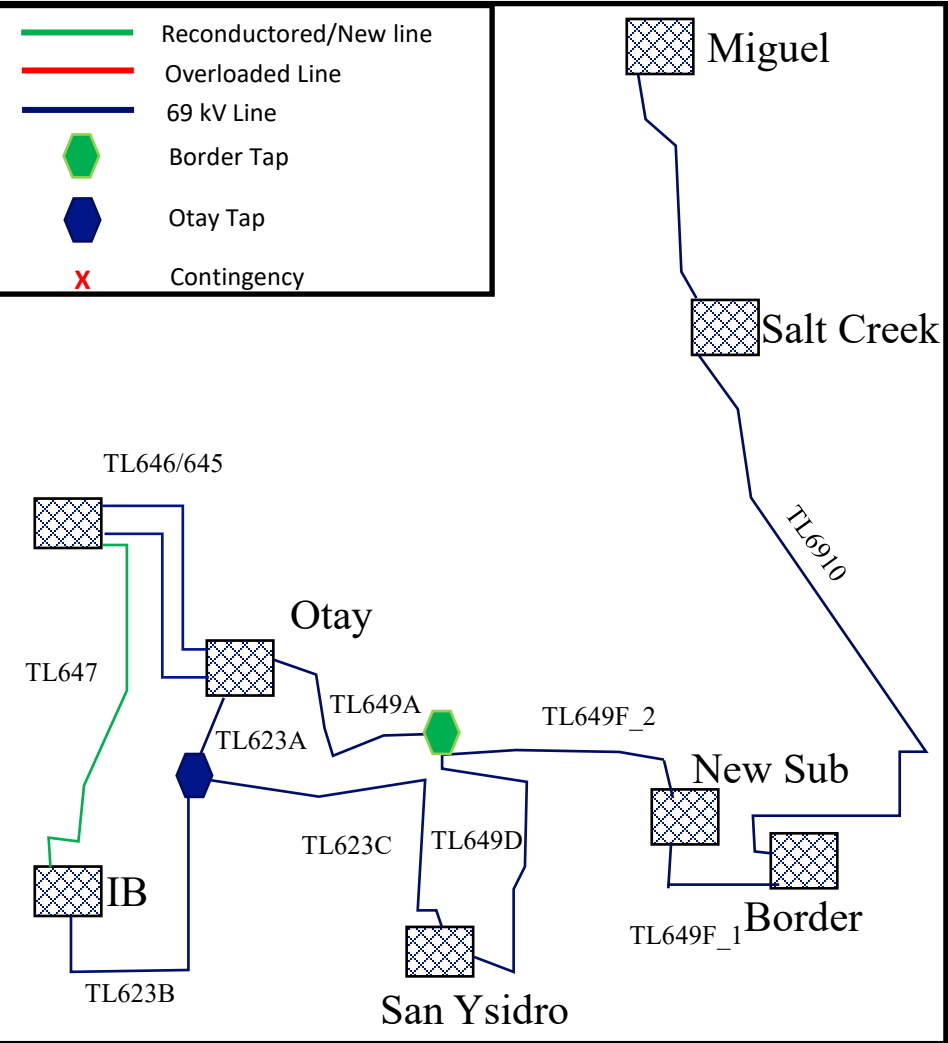
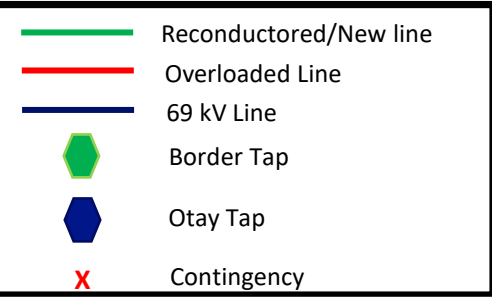


TL 647 Reconductor

Existing



Proposed



Drivers:

- Support the growing demand in the Border area
- Category P1, P3 NERC Violations in 2036 and P0, P1 and P3 NERC Violations in 2041 overloading TL 647
- TL 647 will be overloaded for P1 of either TL645, TL646, TL649, or TL623

Scope:

- Reconductor TL 647 to a minimum rating of 136 MVA

Cost: \$35

ISD: 2036

Construction Time: 5+ years

Alternatives:

- Dynamic line rating systems, advanced power flow control systems, and topology optimization software: not practical due to radial system under N-1
- BES implementation evaluated; P3 contingency overloads remain unresolved

TL 649A Reconductor

Existing

Drivers:

- Support the growing demand in the Border area
- Category P1, P3 NERC Violations in 2036 and P0, P1, and P3 NER violations in 2041
- P1 Overloads on TL 649A FTLO TLs 623, 6964 6910, 649F_1, 6935

Scope:

- Reconductor TL 649A to a minimum rating of 160 MVA

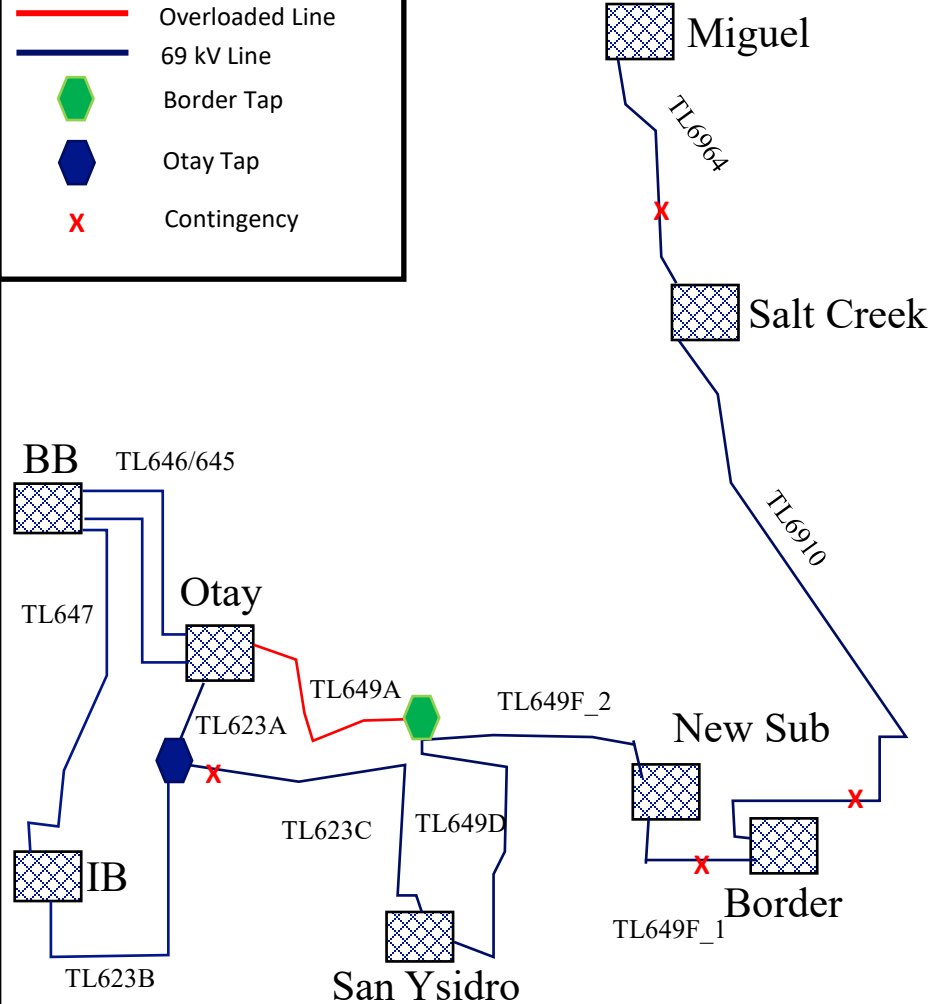
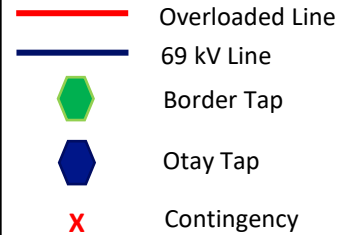
Cost: \$33

ISD: 2036

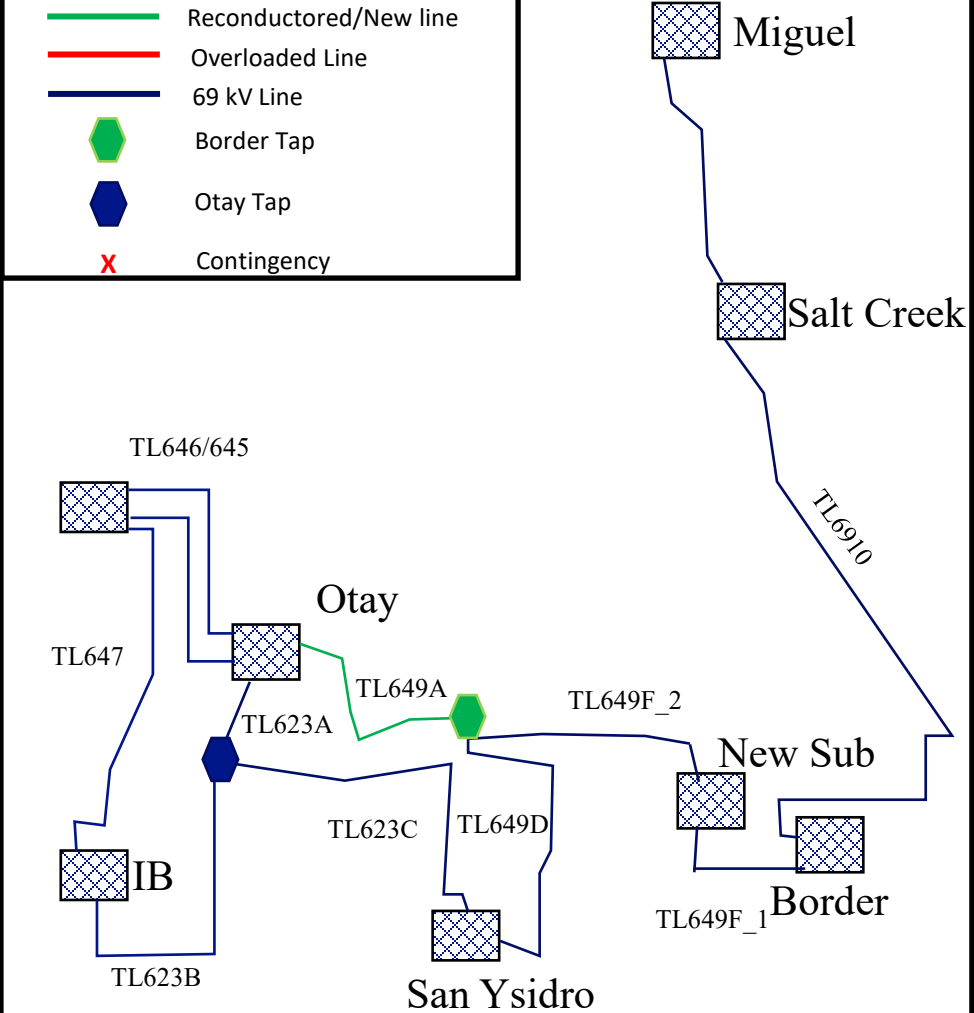
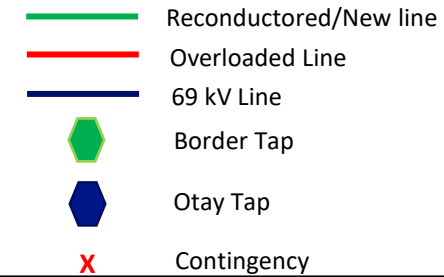
Construction Time: 5+ years

Alternatives:

- Dynamic line rating systems, advanced power flow control systems, and topology optimization software: not practical due to radial system under N-1
- BES implementation evaluated; P3 contingency overloads remain unresolved

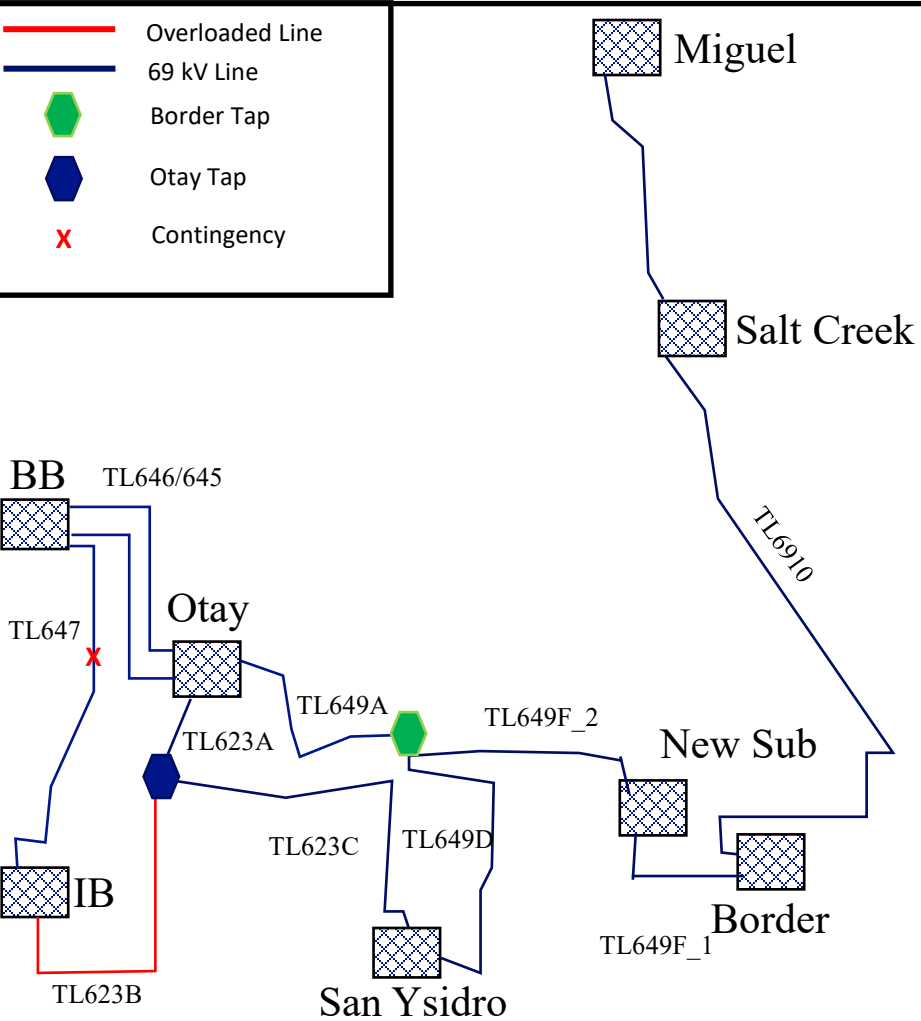
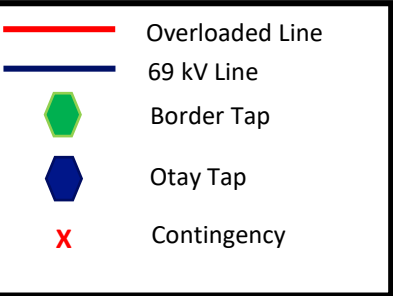


Proposed

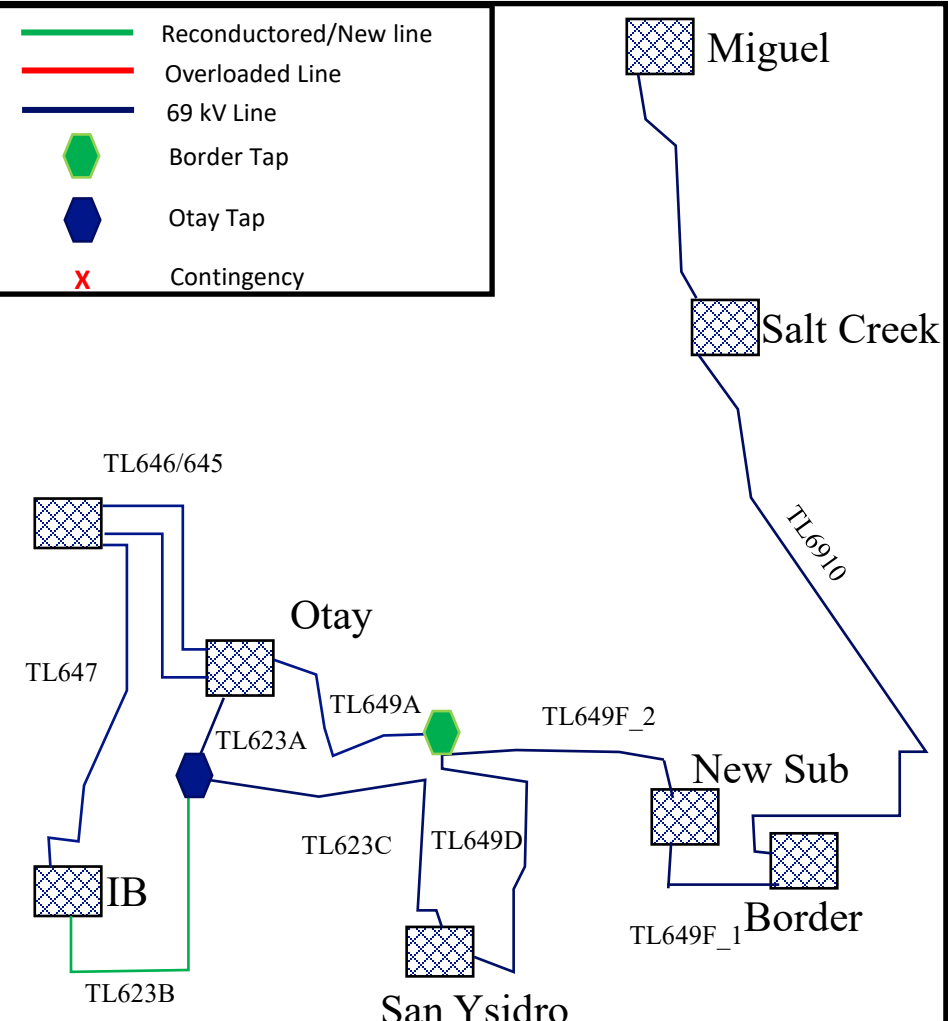
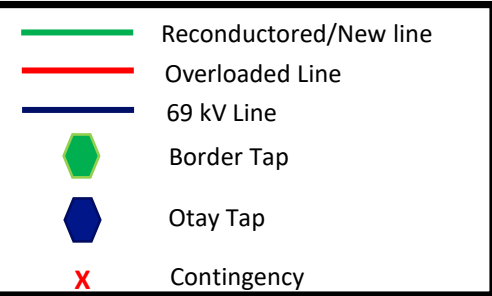


TL 623B Reconductor

Existing



Proposed



Drivers:

- Support the growing demand in the Border area
- Category P1, NERC Violations in 2036 and 2041
- P1 Overloads on TL 623B FTLO TL 647

Scope:

- Reconductor TL 623B to a minimum rating of 136 MVA

Cost: \$58

ISD: 2036

Construction Time: 5+ years

Alternatives:

- Dynamic line rating systems, advanced power flow control systems, and topology optimization software: not practical due to radial system under N-1
- BES implementation evaluated; P3 contingency overloads remain unresolved

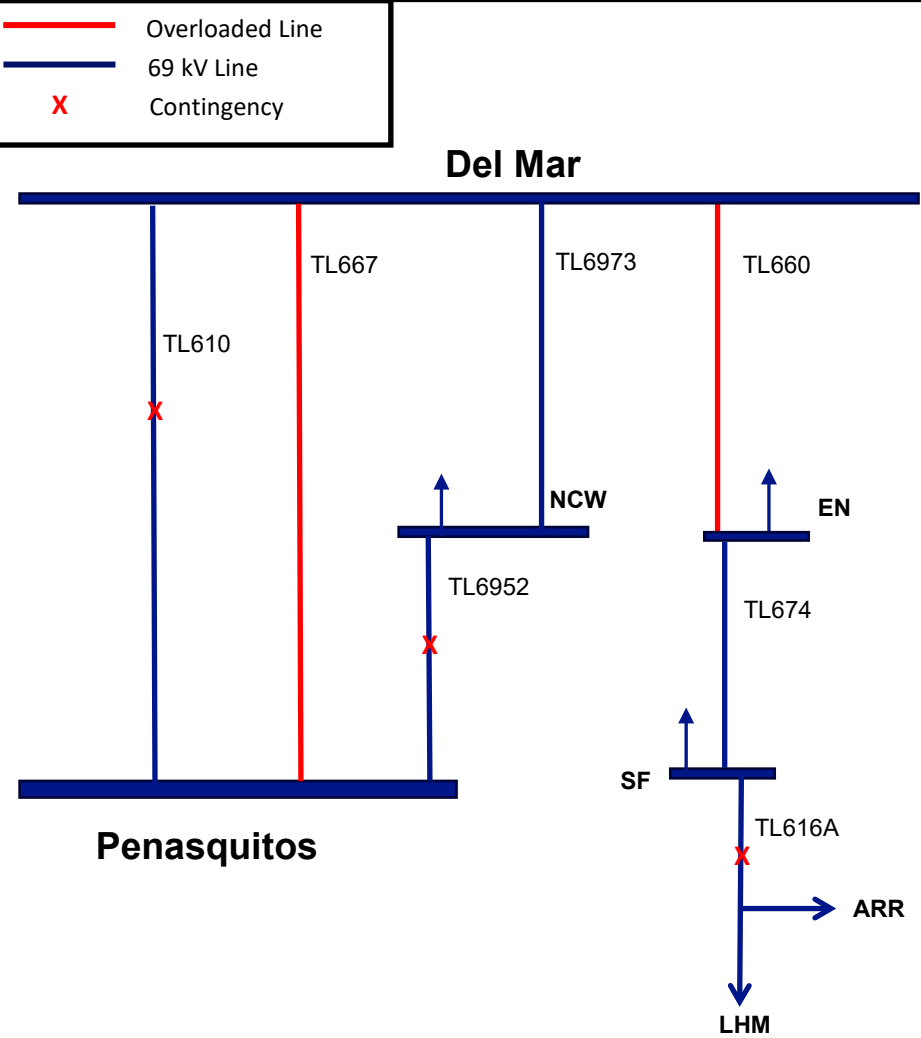


2026-2027 TPP Del Mar Pocket Reconductor Projects

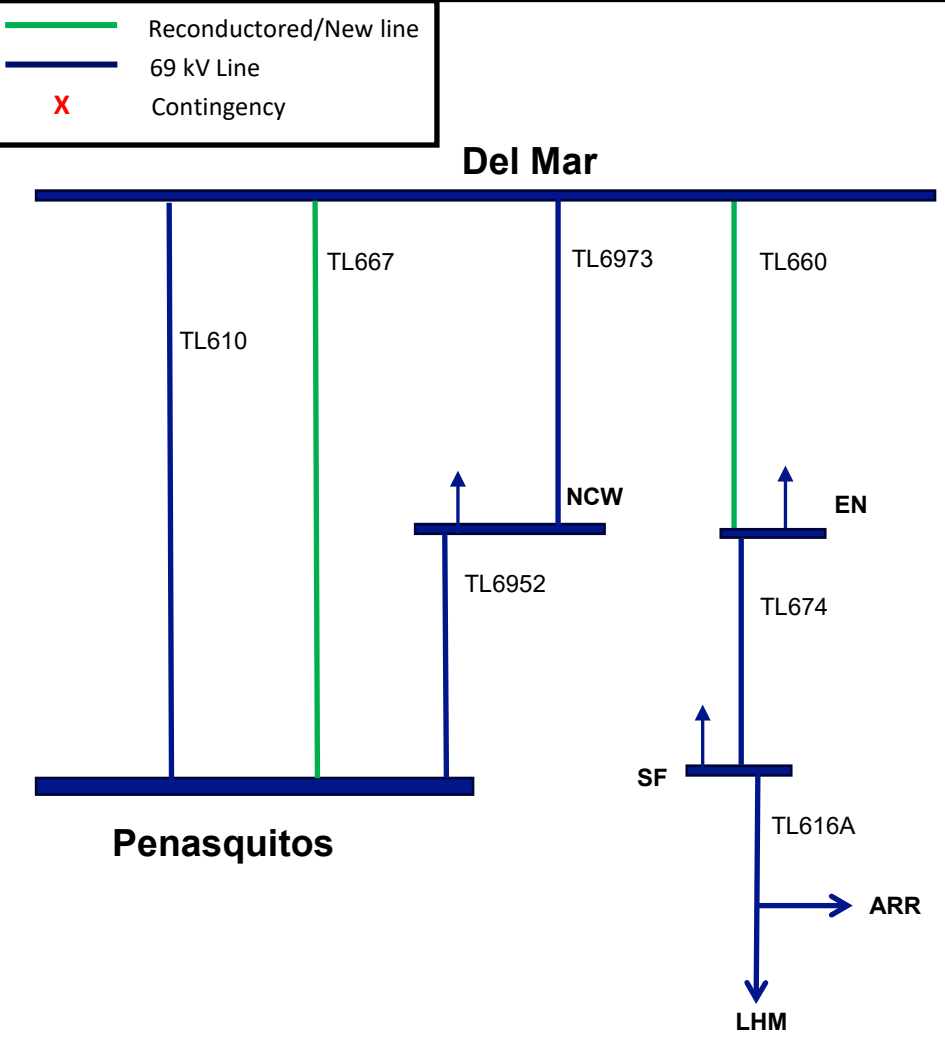


Reconductor TL660 and TL667

Existing



Proposed



Drivers:

- Support the growing demand in the Del Mar area
- Mitigate Category P1 NERC violation:
 - TL667 overloads for P1 of TL610 or TL6952 in 2036 and 2041
 - TL660 overloads for P1 of TL616 in 2036 and 2041

Scope:

- Reconductor TL667 and TL660 to a minimum rating of 150 MVA

Cost: \$262

ISD: 2036

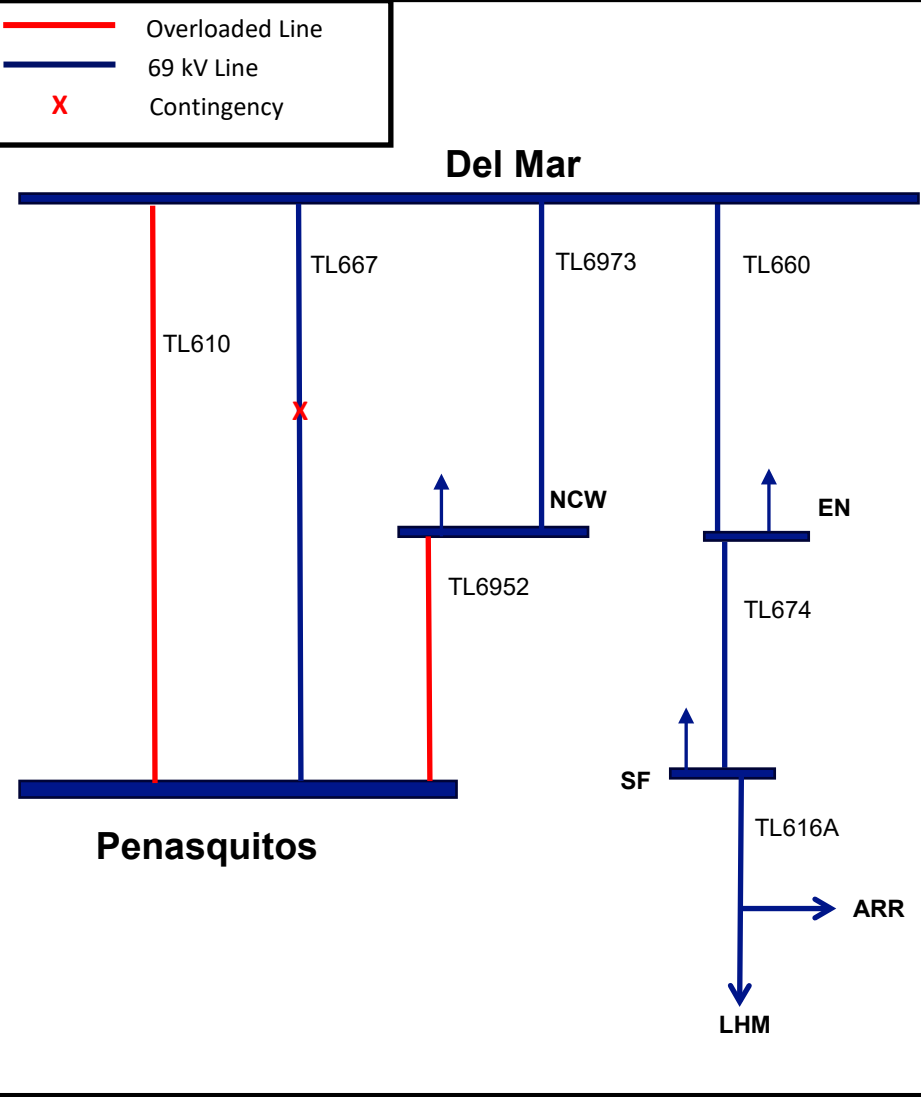
Construction Time: 5+ years

Alternatives:

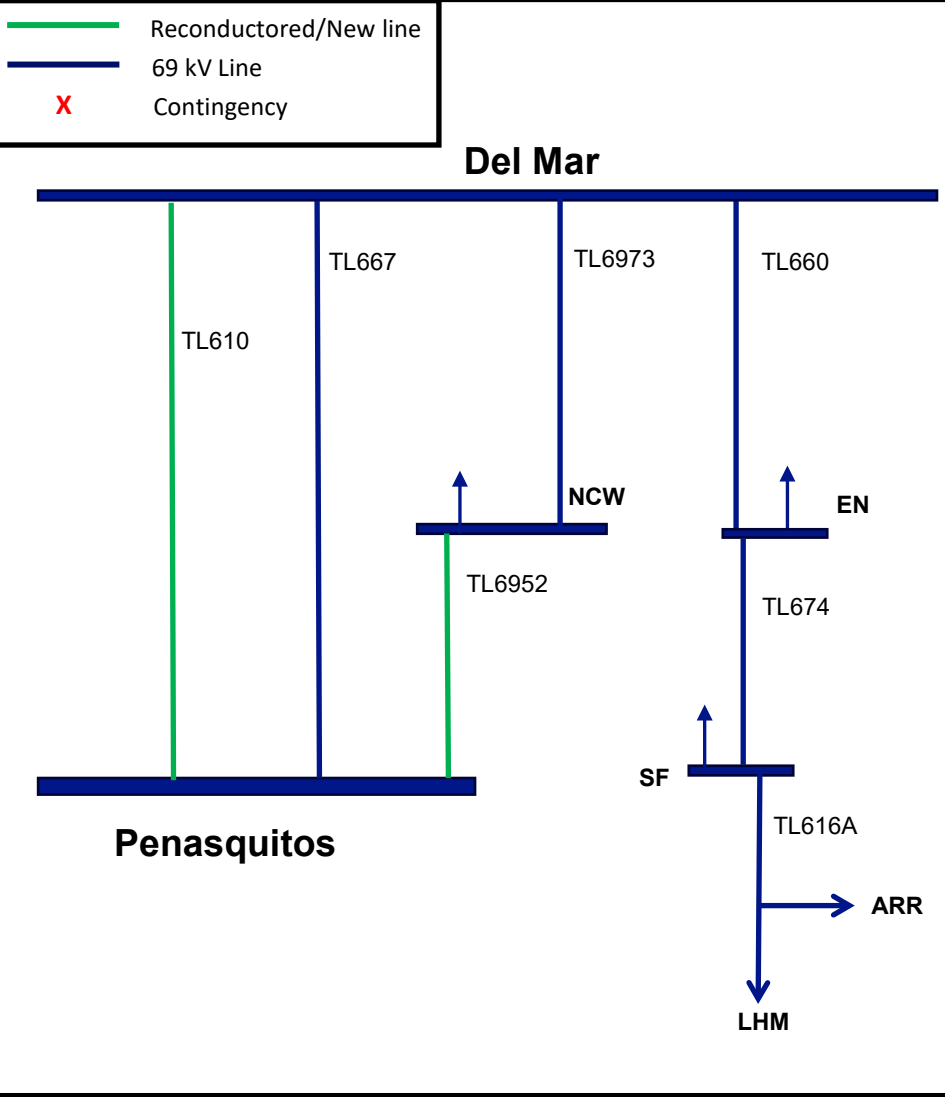
- New Del Mar – Penasquitos 69KV #3 line not recommended due to construction complexities and land constraints in the area
- Dynamic line rating systems, advanced power flow control systems, and topology optimization software: not applicable

Reconductor TL610 and TL6952

Existing



Proposed



Drivers:

- Support the growing demand in the Del Mar area
- Mitigate Category P1 NERC violation:
 - TL610 overloads for P1 of TL667 or TL6952 in 2041
 - TL6952 overloads for P1 of TL667 in 2041

Scope:

- Reconductor TL610 to a minimum rating of 150 MVA and TL6952 to a minimum rating of 200 MVA

Cost: \$160

ISD: 2041

Construction Time: 5+ years

Alternatives:

- New Del Mar – Penasquitos 69KV #3 line not recommended due to construction complexities and land constraints in the area
- Dynamic line rating systems, advanced power flow control systems, and topology optimization software: not applicable



Thank you!