

Alternative 3

Single-Circuit 500-kV Towers between Haskell Canyon and Pardee Substation



Haskell Canyon facing south from border of ANF.

Description

This alternative is a minor variation of the proposed Project; between Mile 0.0 and Mile 20.3, Alternative 3 is identical to the proposed Project. From Mile 20.3 to Mile 25.6, between Haskell Canyon and Pardee Substation, Alternative 3 includes the construction of 21 single-circuit 500-kV transmission towers, rather than removing the existing single-circuit 500-kV towers and replacing them with double-circuit 500-kV towers.

Location

As shown in the figure on the back of this page, this alternative follows the same route as the proposed Project. The single-circuit towers would be built in the vacant position of the Pardee-Vincent 500-kV ROW, which is situated near the north edge of the ROW between Mile 20.3 and Mile 22.3 (see inset of cross-section), and near the center of the ROW between Mile 22.3 and Mile 25.6 (see inset of cross-section).

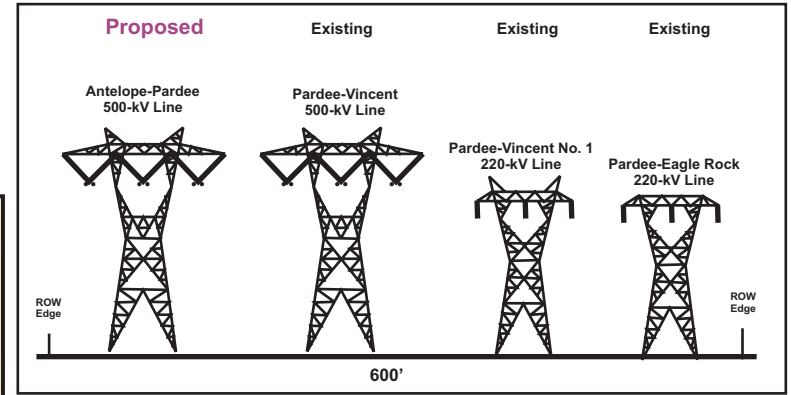
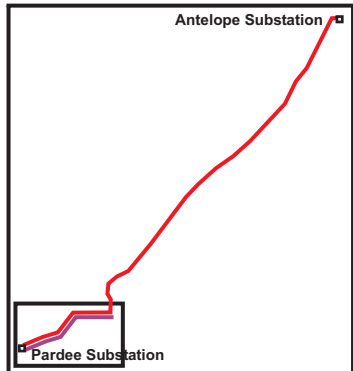
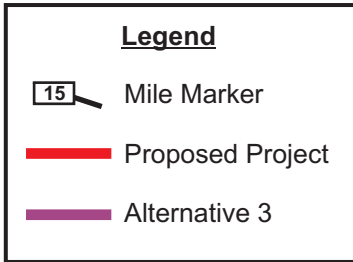
Key Environmental Issues

- **Air Quality** – Lowest annual and overall construction emissions compared to all the other alternatives due to less existing tower demolition.
- **Geology, Soils, Paleontology** – Results in the least ground disturbance and thus results in the lowest potential for construction-related slope instability and erosion compared to all the other alternatives.
- **Forest Management Activities** – This alternative would adversely affect Forest Management Activities, including fire suppression and firefighter safety.
- **Hydrology and Water Quality** – This is the preferred alternative from a hydrology and water quality perspective. Avoids the demolition of the existing 500-kV transmission towers and therefore avoids the production of associated soil erosion and sedimentation that could degrade local water quality.
- **Land Use and Public Recreation** – Would avoid significant impacts to the Bouquet Canyon Stone Quarry and recreational trails. Would require acquisition of private land, but would not require the removal of existing residences.
- **Noise** – Would avoid construction impacts associated with the removal of the existing single-circuit 500-kV towers, thereby reducing associated noise impacts. Noise impacts to the Angeles National Forest (ANF) and Veluzat Motion Picture Ranch would be significant.
- **Socioeconomics** – Would avoid significant impacts to the Bouquet Canyon Stone Quarry, but would result in direct impacts to operations of the Veluzat Motion Picture Ranch.
- **Traffic and Transportation** – Would result in the least traffic compared to all the other alternatives due to fewer haul truck trips associated with tower removal activities.
- **Utilities and Service Systems** – Would require the least water and generate the least amount of waste compared to all the other alternatives.
- **Visual Resources** – Would avoid taller, more visually obtrusive, double-circuit towers in Santa Clarita.

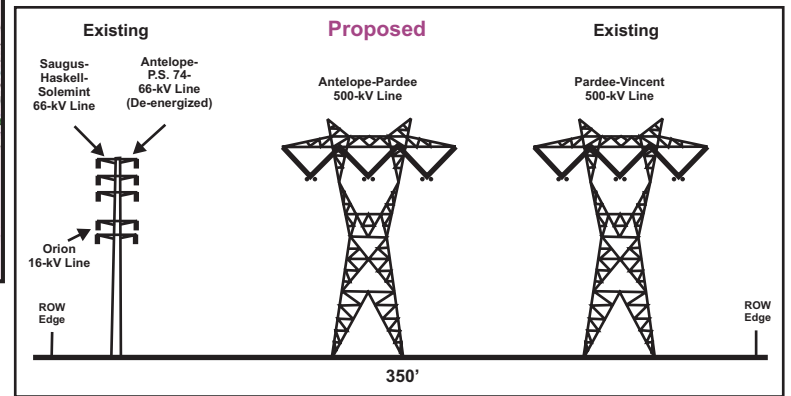
Summary Facts

- *Total miles: 25.6*
- *Single-circuit 500-kV towers: 114*
- *Double-circuit 500-kV towers: 1 existing*
- *Miles of new ROW: 2.8*
- *Distance from Haskell Canyon to Pardee Substation: 5.3 miles*
- *Use 21 single-circuit 500-kV towers (113 to 178 feet tall) between Haskell Canyon and Pardee Substation, instead of 22 double-circuit 500-kV towers (175 to 230 feet tall)*

Alternative 3: Antelope-Pardee Single-circuit 500-kV Towers between Haskell Canyon and Pardee Substation



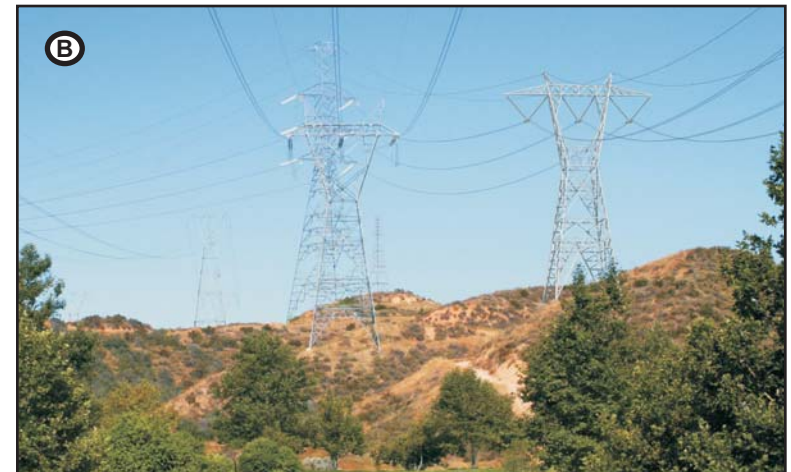
Proposed ROW Configuration for Mile 20.3 to Mile 22.3



Proposed ROW Configuration for Mile 22.3 to Mile 25.6



Simulated View: Looking northwest from North High Ridge Drive



Simulated View: Looking west from Mountain View Park