



Transmission Interconnection

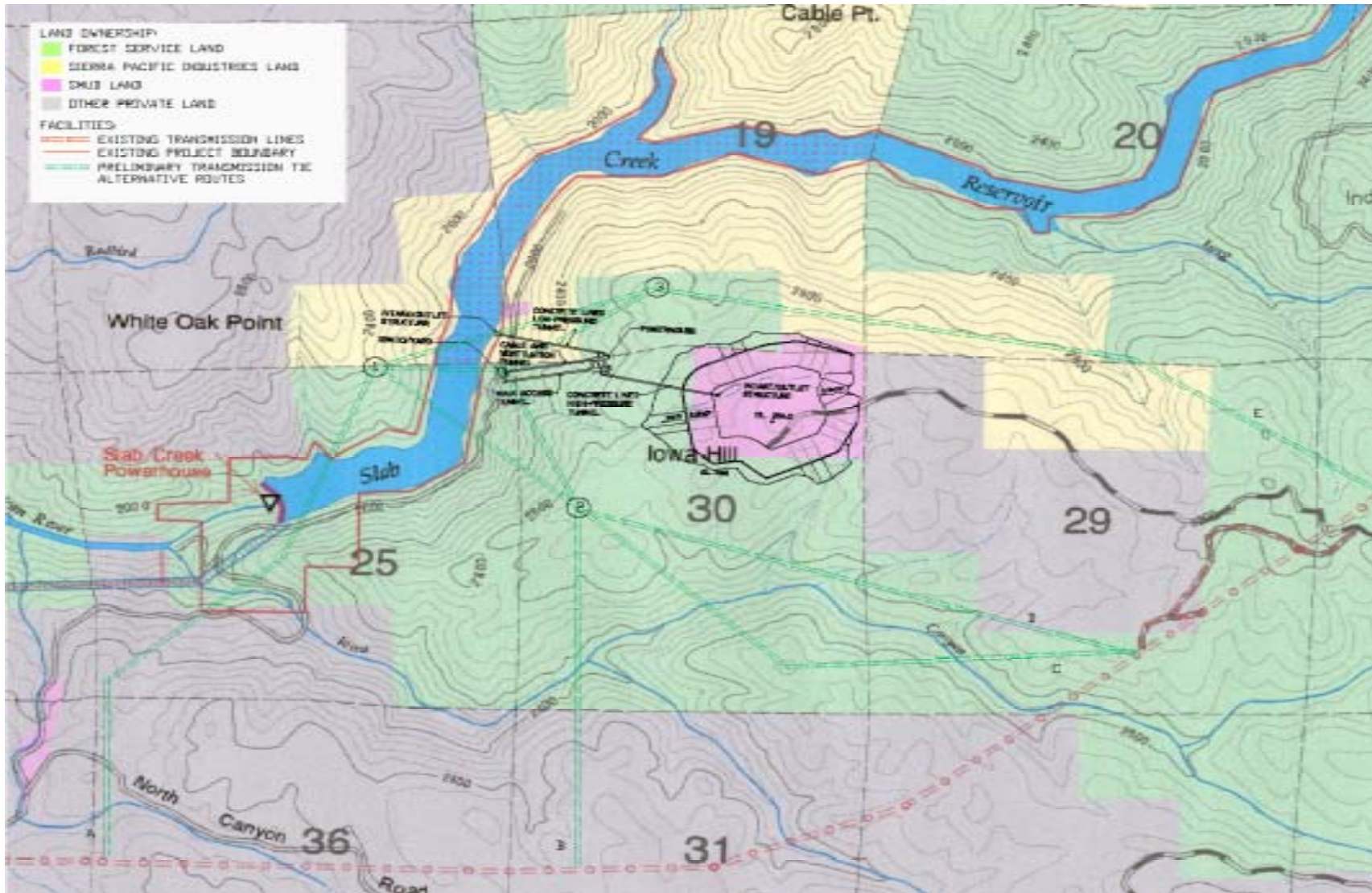
The electrical power output would be carried by the existing three 230-kV transmission lines that move power down from the UARP to SMUD's load center. To avoid adding any additional transmission circuits to move the Development power to SMUD's load center, SMUD would re-conductor the existing three UARP circuits (Camino/Lake, White Rock/Orangevale, and White Rock/Hedge). The only new transmission line would be a generation tie line approximately two miles in length that would tie the Iowa Hill Development into the UARP system by looping the Camino/White Rock circuit through the Development switchyard. This same tie line would also be used for the Development when it is operated in the pumping mode.

The tie line would start at the proposed switchyard, to be located on the bank of Slab Creek Reservoir in the area near the intake, then come up out the SFAR canyon. Then from there, the tie line would head toward the existing UARP transmission corridor which passes by the Development to the south and southeast. The total distance of the tie line would be between approximately 1.25 to 2.5 miles, depending on which route is ultimately selected.

SMUD has identified five potential transmission tie line routes. Figure 14 on the next page shows preliminary transmission tie-line alternative routes overlaid on the Iowa Hill land ownership map.

There are two options for getting power from the Iowa Hill Development switchyard, which is in the Slab Creek Reservoir Canyon, up and over Iowa Hill, which is 1,000-1,200 feet higher in elevation: (1) spanning across the reservoir from the switchyard to a mid point on the West bank of the Canyon (designated as point 1 on the map), and then back across the Canyon in an east, southeast, south, or southwest direction to get up and over Iowa Hill (to points labeled 2 or 3); or (2) run a transmission right-of-way up the south bank of the canyon, up the side of Iowa Hill, to the top (from the switchyard to points labeled 2 or 3). Option 1 avoids having to clear a right-of-way for the transmission up the western slope of Iowa Hill.

Figure 14. Possible Transmission Routes





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Once out of the SFAR canyon, various options exist to connect with the existing UARP transmission line. The five route options are labeled A-E (no order of priority). Like the Slab Creek Reservoir cross-over route, alternatives that cross over Iowa Creek Canyon would involve much less vegetation clearing than other right-of-way options that follow more level ground.

SMUD and the relicensing participants will consider the alternative routes. Environmental and social effects will be considered in choosing a proposed route. Ultimately, SMUD's application for new license will include a description of the proposed transmission tie line route, along with potential effects that it could have on other resources and proposed measures to minimize or mitigate those effects.