

LS Power Grid California, LLC

RE: Data Request #5 DR-4: Substation Alternative Site A (Adjacent to Existing Wind Energy Substation)

Attachment A: Alternative Site A Potential Interference with SMUD Microwave Tower

LSPGC met with SMUD to discuss concerns related to Substation Alternative Site A related to the potential for interference with an existing microwave communication tower and the potential for impact on an existing aircraft detection lighting system (ADLS) radar tower. During this meeting, SMUD detailed their concerns to LSPGC and brainstormed possible ways to minimize impact to the microwave tower.

Microwave Tower

In discussions related to the existing microwave tower, SMUD indicated that the Substation Alternative Site A is in the direct line of sight of the microwave tower and the site would obstruct the direct beam path of the tower, as shown in Figure 1. This would create the potential for electromagnetic interference with the microwave tower's beam, likely causing poor signal quality or signal loss. In addition, LSPGC's communications may interfere with the existing microwave tower's communications, causing signal distortion or phase cancellations.

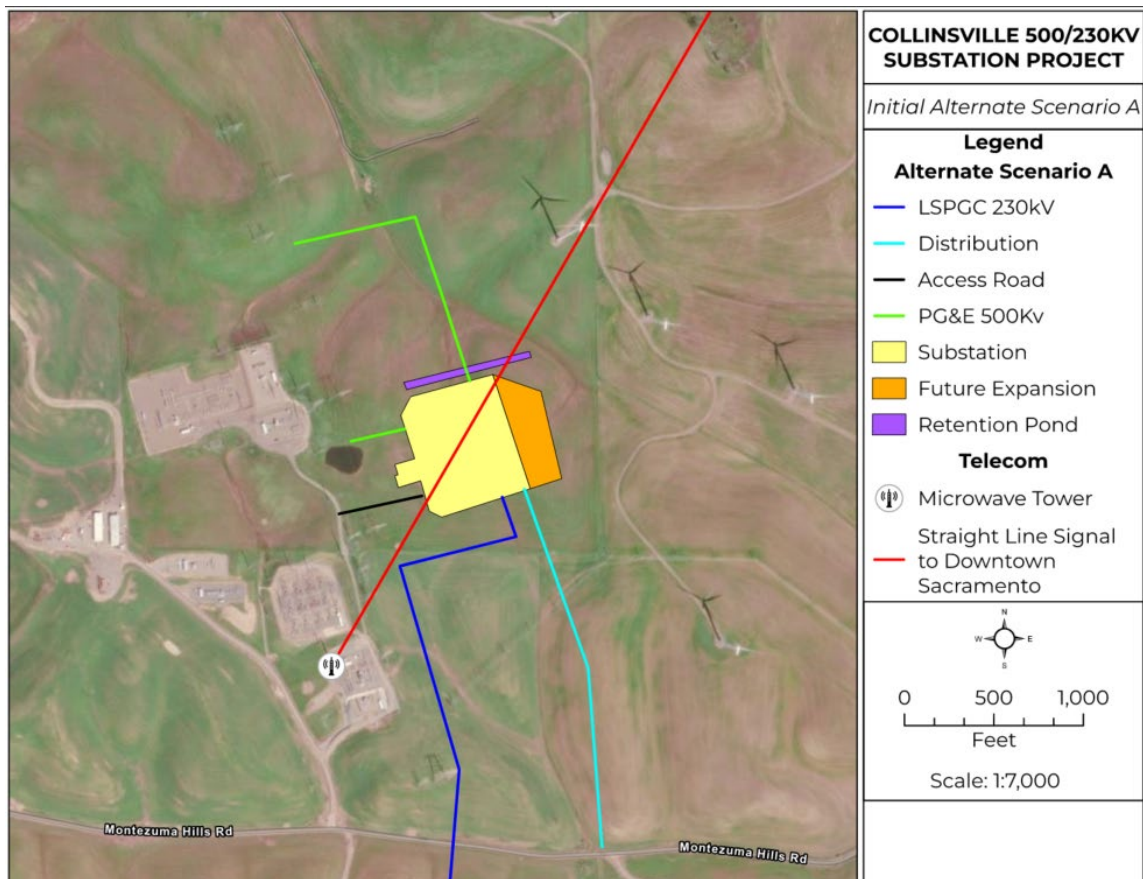


Figure 1: Alternative A Beam Path Obstruction

LSPGC has identified that there are two solutions that could resolve the conflict with the microwave tower, and are described as follows: (1) the microwave tower is raised to clear the line of sight from the obstructions of the substation structures, or (2) the microwave tower is relocated to another area around the site. Either option would require construction activities at the microwave tower.