

LOL-HECO-IR-29

Ref: "Only limited expansion of the Pukele site is possible." (Exhibit 5, page 40)

Question(s):

- a. What is the percentage that the Pukele Substation footprint could be increase by?
- b. What types of expansions are possible at Pukele?
- c. What upgrades to Pukele have been considered by HECO?

HECO Response:

- a. When taking into consideration the required setbacks for the Pukele Substation, there is no room to increase the footprint of the Pukele Substation. Other reasons for not expanding to the maximum footprint, as stated on Exhibit 5, page 40, i.e., the Pukele Substation is also bound by 1) the valley wall on one side, 2) residential housing on another and 3) a streambed on the other two sides. Therefore, based on the above, HECO does not have current plans to expand the Pukele Substation.
- b. Please see the responses to subparts a and c.
- c. Some of the upgrades within the existing Pukele Substation fence that have been considered include 1) additional 138kV line termination (for the previously proposed Kamoku-Pukele 138kV line), 2) conversion of the current 138kV straight bus configuration to a 138kV ring bus configuration, 4) a control house expansion, 5) necessary 46kV line terminations and upgrades for the 46kv network alternative, which is outlined in Exhibit 5, page 65, and 6) necessary 46kV line terminations and upgrades for the 46kV radial alternative outlined in Exhibit 5, page 79.