

CA-IR-7

Ref: T-3, Page 22, Line 21 and 22.

- a. Please explain the statement, “. . . where important customer loads are involved.”
- b. Provide all criteria considered to determine whether a customer’s load is “important” in the context of the statement.

HECO Response:

- a. The context of the statement “where important customer loads are involved,” relates to planning for double contingency outage scenarios without loss of load. Under the topic of System Planning Process Overview on page 6, line 25, of Mr. Pollock’s testimony (HECO T-3), he states that, “a power system that serves large loads, as well as loads that are particularly important to a community’s financial well being, warrants a more robust system to avoid the direct economic impact and social disruption that result from power outages. The consequences of an outage . . . must be considered in recommending system improvements.” In this sense, and as addressed in Mr. Pollock’s testimony on pages 21 through 23, the downtown and Waikiki area loads are “important”, and thus providing an alternate source to the Pukele and Downtown area substations is warranted.
- b. In the context of Mr. Pollock’s testimony, an important load would be a load, or large block of load, that if lost, may negatively impact the performance of the transmission system; or the load lost comprises a significant portion of the total system load; or if the load lost could result in significant social disruption and/or economic loss. For example, the downtown and Pukele area substations serve the electrically large and important Waikiki area and downtown core business district. The loss of power to these areas could have an adverse financial effect on a large number of individuals, commercial and tourist businesses, and

employees, and cause social disruption (please also see the response to CA-IR-5, subpart b).

Additionally, the Pukele substation load comprises a large portion of the Oahu load (16%),

and would be a significant load loss to the system as a whole.