

CA-IR-10

Ref: T-3, Page 27 through 29.

Did Mr. Pollock draw his conclusions regarding the application of planning criteria to HECO's transmission system from his own analyses (i.e., load flow studies), or from a review of previously prepared HECO studies and other studies? Provide copies of all documentation and/or analysis relied upon to support Mr. Pollock's conclusion.

HECO Response:

Mr. Pollock formed his conclusions based on a review of previously prepared HECO studies, other studies, discussions with HECO engineering staff, and vehicle and helicopter reviews of the 138kV transmission system on Oahu. Mr. Pollock did not conduct independent load flow studies or other types of independent analyses of the Oahu system. The studies reviewed by Mr. Pollock include the following documents:

1. HECO, September 1986 and as revised October 24, 1991, *Pukele 138-kV Source Reliability Improvement Study*,
2. Hawaiian Electric Company, July 1991, *East Oahu 138kV Requirements*,
3. Hawaiian Electric Company, March 1992, Short Range Transmission Planning Study, 1992-1996,
4. Hawaiian Electric Company, August 1992, *East Oahu 138KV Requirements, Updated*,
5. HECO, March 1994, Long Range Transmission Study, 1993 – 2013,
6. HECO Transmission Planning, August 1994, *Kamoku – Pukele 46kV Alternatives Study*,
7. Hawaiian Electric Company, March 1998 East Oahu Transmission Requirements Update Study,
8. Hawaiian Electric Company, September 1999, Revised Environmental Impact Statement, Kamoku – Pukele 138kV Transmission Line Project, Volume 2: Appendices A-I,

9. Hawaiian Electric Company, September 2000, Revised Final Environmental Impact Statement, Kamoku – Pukele 138kV Transmission Line Project, Volume 1A: Report,
10. Hawaiian Electric Company, September 2000, Revised Final Environmental Impact Statement, Kamoku – Pukele 138kV Transmission Line Project, Volume 1B: Attachments
11. Hawaiian Electric Company, December 2003, East Oahu Transmission Project, Alternatives Study Update,
12. Hawaiian Electric Company, December 2003, East Oahu Transmission Project: Options to the Koolau/Pukele Transmission Line Overload Problem,
13. Stone & Webster Management Consultants Report, February 1984, Hawaiian Electric Company, Investigation of July 13, 1983 Blackout,
14. Southern Electric International, January 1989, HECO Transmission and Distribution Study 1989-2008 Final Report, and
15. CH2M Hill, June 1995, Kamoku – Pukele 138kV Transmission Line Alternatives Study.

Please note that items #7, 8, 9, 10, 11, 12 and 15 were included in the Exhibits to the Application for this proceeding. Item #4 was previously provided to the Commission and the Division of Consumer Advocacy as Exhibit III to the Application in Docket No. 7526 (Kewalo A&B 30/40/50 MVA Transformers), filed November 12, 1992. Item #14 was filed with the Commission, with a copy to the Division of Consumer Advocacy, by letter dated April 19, 1990 in Docket No. 6789 (Waiiau-Makalapa 138kV Line No. 2). The remaining studies are voluminous and are available for review at HECO's Regulatory Affairs office. Please contact George Hirose at 543-4787 to make arrangements for a review.