

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF HAWAII

In the Matter of the)
)
PUBLIC UTILITIES COMMISSION) DOCKET NO. 03-0371
)
Instituting a Proceeding to)
Investigate Distributed Generation)
in Hawaii)
_____)

HESS MICROGEN, LLC'S

RESPONSES TO SUPPLEMENTAL INFORMATION REQUESTS TO ITS
RESPONSES TO INFORMATION REQUESTS TO ITS DIRECT TESTIMONIES
FROM HAWAII ELECTRIC COMPANY, INC., HAWAII ELECTRIC LIGHT
COMPANY, INC., AND MAUI ELECTRIC COMPANY

and

CERTIFICATE OF SERVICE

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Hess Microgen, LLC

In the Matter of the)
)
PUBLIC UTILITIES COMMISSION) DOCKET NO. 03-0371
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Investigate Distributed Generation)
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HESS MICROGEN, LLC'S
Responses to Supplemental Information Requests

Pursuant to the agreed upon schedule of proceedings set forth in Prehearing Order No. 20922, Hess Microgen, LLC hereby submits its Supplemental Responses to Information Requests to Its Responses to Information Requests to its Direct Testimonies in the above-referenced docket.

Respectfully submitted.

DATED: Honolulu, Hawaii, September 17, 2004

SANDRA-ANN Y.H. WONG

Attorney for Intervenor
Hess Microgen, LLC

CERTIFICATE OF SERVICE

I hereby certify that I have this date served copies of Hess Microgen, LLC Responses to Supplemental Information Requests to its Responses to Information Requests to its Direct Testimonies from Hawaiian Electric Company, Inc., Hawaii Electric Light Company, Inc. and Maui Electric Company, Limited on the following parties, by causing copies hereof to be mailed, postage prepaid, and properly addressed to each such party as follows:

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DATED: Honolulu, Hawaii, September 17, 2004

SANDRA-ANN Y.H. WONG

Attorney for Intervenor
Hess Microgen, LLC

Hess Microgen (“Hess”) Responses to Supplemental Information Request from Hawaiian Electric Company, Inc., Hawaii Electric Light Company, Inc. and Maui Electric Company, Limited (“HECO”) based on Hess’ Responses to Information Request on its Written Direct Testimonies

HECO/Hess-DT-SIR-1 Ref: Hess Response to HECO/Hess-DT-IR-4, subpart a.

Does Hess own and operate any CHP installations in the Southern California Edison service territory that required an interconnection application pursuant to SCE’s Rule 21? If so, please provide a copy of a complete application for interconnection for such an installation.

Response: All of Hess’ sites in Southern California Edison service territory that required an interconnection application pursuant to SCE’s Rule 21 are turn-key for customers. As such, Hess does not have the right to provide to HECO this information.

HECO/Hess-DT-SIR-2 Ref: Hess Response to HECO/Hess-DT-IR-4, subpart d.

In its response, Hess stated “Hess is unsure of the relevance to the interconnect process as the 10MW number is reflected nationally in IEEE 1547 and could apply to significantly smaller “Co-Op” utilities.”

- a. Please provide a list of Hess’ experience with smaller “Co-Op” utilities which are utilizing the IEEE 1547 standard or a standardized interconnection process. Please provide a copy of the standardized interconnection process of the smaller “Co-Op” utilities.
- b. Do these smaller “Co-Op” utilities control both generation and transmission facilities?
- c. Are these smaller “Co-Op” utilities interconnected to other larger electrical grids?

Response:

- a. Hess does not have list of CO-Op utilities currently prescribing to the IEEE 1547 rule. However, SMUD (Sacramento Municipal Utility District) utilizes the Rule 21 system based on IEEE 1547. The development of the IEEE 1547 rule was intended to be adopted by all electrical entities. Hess worked with Jasper County Rural Electric Membership Corporation to interconnect a unit. This connection was based on IEEE 1547.

(Excerpt from IEEE p1547 Introduction)

“The intent of this standard is to define the technical requirements in a manner that can be universally adopted. The universality relates not only to the technical aspects, but also to the adoption of this standard as being pertinent across a number of industries and institutions, e.g., hardware manufacturers, utilities, energy service companies, codes and standards organizations, regulators and legislators, and other interested entities.”

- b. Hess is not an expert in the capital holdings of CO-OPs, however, most CO-OPs to Hess' knowledge do not control generation. Most have few or no transmission lines.
- c. While Hess is not an expert in the CO-OP/Muni systems, Hess is aware that some have one or two 34.5 kV delta sub-transmission feeders to their system and they take power from there.

HECO/Hess-DT-SIR-3 Ref: Hess Response to HECO/Hess-DT-IR-4 , subpart d.

Hess states that one of the criteria under Rule 21 for Southern California Edison, which a customer must meet to not require supplemental technical review is “the gross generating facility capacity is 10 MW or less”. Please clarify if Hess meant for the stated criteria to read “gross generating facility capacity is 11 kVA or less” as provided in Rule 21.

Response: No. While there is a <11 kVA screen that is provided to ease connection (screen 6 on the SCE version), the rule is applicable up to 10 MW. Therefore, as long as the other screens are met, a generator of 10MW gross generation could conceivably be connected by a simplified interconnect. The 10 MW limitation is introduced in D.3.a.1 where a more complex relay requirement is required. It is noteworthy that it is impossible for a 10 MW generator to be less than 15% of any Hawaiian distribution circuit.