

1 Q. In reference to section 4.2 of the ESRA Report, please compare the importance of
2 the reliability of the power supply equipment versus generation units, including
3 comparison of recovery periods [based on historical data].
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6 A. Both generation and power supply equipment play equally important roles in
7 supplying power to utility customers. A utility's ability to deliver power to its
8 customers ultimately depends on the reliability of three sub systems; the
9 generation supply system, transmission (or power supply equipment) supply
10 system, and the distribution system.
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12 As each of these systems has a different impact on customer reliability, they are
13 typically analyzed separately, each to their own set of established criteria. When
14 each system is analyzed, the other systems are assumed to be in compliance with
15 their own criteria. As part of the studies, checks are made to determine what, if any
16 affect one system as on the other.
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18 Unique to this analysis, as part of the ESRA Report, it was determined that aspects
19 of the existing generation supply for the Island Interconnected System are being
20 directly impacted by aspects of the transmission supply. The existing transmission
21 constraints in the TL202-206 corridor are impacting the delivery of power to the
22 Avalon Peninsula. In this instance, it became appropriate for Hydro to consider a
23 combined generation and transmission supply metric, namely Expected Unserved
24 Energy (EUE).
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26 Given the differences in the effect that outages of elements in the generation
27 supply system versus the transmission system have on the end-use customer,

- 1 Hydro feels that a comparison of recovery periods does not inform the issue at
- 2 hand.