

1 Q. Please refer to Appendix B. Explain the meaning of “Sheddable Load”.

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4 A. Sheddable load is the arithmetic sum in MW of all load contained within the under
5 frequency load shedding schedule. In stability analysis, Hydro models the MW
6 component of load as being constant current. As a result, during the simulation, as
7 load bus voltage drops, the MW value of the load drops. Likewise, as voltage
8 recovers following the removal of a fault, the MW load recovers to the post fault
9 load level. This effect is very similar to the voltage reduction technique employed
10 by Newfoundland Power where 66 kV bus voltages within the St. John’s Region are
11 reduced at time of peak to reduce the peak MW load.

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13 Hydro uses the plot of sheddable load to determine if, and at what time, under
14 frequency load shedding occurred during the simulation.