2 loss of generation in the IIS post Muskrat Falls interconnection? If the answer is yes, will the targets for UFLS for Newfoundland Power and Hydro customers remain less 3 than 4 or 5 per year respectively? 4 5 6 7 A. The Post Muskrat Falls under frequency protection system is being designed and 8 will be operated such that for the single contingency loss of on-Island generation 9 will not result in under frequency load shedding. As a result, the frequency of UFLS 10 events post interconnection will be significantly less than current levels. Under 11 frequency load shedding will continue to be applied as it is in all power systems to 12 protect power system equipment and prevent uncontrolled customer load loss for 13 more extreme events such as the loss of multiple on-Island generating units. 14 15 While the Island Interconnected System is not NERC compliant at this point in time, 16 the scenario described above may be considered in the context of Reliability

Standards for Bulk Electric Systems in North America. Referencing standard TPL-

Conditions, "Category C Events" are described as those "resulting in the loss of two

or more (multiple) elements". In such a case, the power system must remain stable

demand or curtailed firm transfers must be planned and controlled. This is the case

001-0.1, Table 1 – Transmission System Standards – Normal and Emergency

with both thermal and voltage limits within applicable ratings and the loss of

for the under frequency load shedding scenarios described above.

Does Hydro still consider under frequency load shedding ("UFLS") acceptable for

Q.

1

17

18

19

20

21

22

23