Q. Consumer Question: In the exhibit "Labrador-Island HVDC Link and Island Interconnected System Reliability" (Nalcor exhibit # 106) we see at page 9 that the peak losses incurred delivering Muskrat Power to Soldier's Pond are approximately 10%. What are Nalcor's estimates for the peak and average losses incurred delivering Muskrat Power to Soldier's Pond, Cape Bretton downstream of the AC/DC converter, the New Brunswick/Nova Scotia border, the New Brunswick/Maine border, and the Maine/New Hampshire border? (Precise estimates are not necessary.)

A. Losses on the HVdc transmission system when operating at rated capacity will not exceed 10%. Nalcor estimates that average losses incurred delivering Muskrat Falls energy to Soldiers Pond will be 5% as the system will not be operating at rated capacity at all times. Please note that converter and transmission losses are generally proportional to the square of the transmitted power, so losses when the system is operating at one half of rated capacity will be approximately one quarter of rated capacity losses.

The peak and average losses associated with deliveries to locations other than Soldiers Pond are beyond the Terms of Reference for this review. Therefore the requested information does not assist consideration of the Reference Question.