Q. Please provide information showing what is the "*half-life*" of Newfoundland and Labrador Hydro's demand reduction by voltage reduction.

A. Hydro is interpreting "half-life" as the time to reach one-half of the total demand reduction that is realized through supply voltage reduction. The impact of this strategy is difficult to determine due to the dynamics of the power system. However, in a review of two voltage reduction events in the period leading up January 2, 2014, the following is observed:

Date	Time	NLH System Demand prior to Voltage Reduction (MW)	NLH System Demand after Voltage Reduction (MW)	Reduction in Demand (MW) [1]	Approximate Time to Reach Reduced Demand
December 29, 2013	16:50	1,408	1,383	25	Approx. 1 min
January 1, 2014	17:00	1,438	1,420	18	Approx. 2 min

The decay from the initial demand to the reduced demand appears to be linear in nature, but may be impacted by the timing of operator actions.

[1] The reduction in demand realized by the voltage reduction strategy may be offset by the normal load changes that would otherwise take place during that time.