Q. Hydro's response to PR-PUB-NLH-126 appears to be based on the belief that Liberty was seeking formally stated industry standards regarding emergency diesel activation in degraded voltage circumstances. Such formal standards are not required. Rather, Liberty is seeking the basis for Hydro's contention, that Hydro's design in this regard is typical in the industry. Please provide that basis and any supporting documentation.

A. Hydro uses Madsen Controls & Engineering as a consultant on diesel generating sets. Madsen have stated in a letter dated June 3, 2015 that "[a]n Emergency Standby Diesel System is most commonly applied after a complete loss of power, and not under brownout conditions. As such the lowest power restoration time for an emergency diesel generator is 10 seconds, as defined under NFPA 110 standard."

A copy of the letter is attached as PR-PUB-NLH-184 Attachment 1.

MADSEN
CONTROLS & ENGINEERING

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June 3, 2015

Newfoundland & Labrador Hydro
500 Columbus Drive
St. John's, NL

To Whom It May Concern,

Re. Emergency Standby Diesel System at the Holyrood Thermal Plant

An Emergency Standby Diesel System is most commonly applied after a complete loss of power, and not under brownout conditions. As such the lowest power restoration time for an emergency diesel generator is typically 10 seconds, as defined under NFPA 110 standard.

Regards,

Bill Bradbury

Bill Bradbury, P.Eng.
Senior Project Engineer

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PEGL
PERMIT HOLDER
This Permit Allows
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To practice Professional Engineering
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which is valid for the year 2014