

1 Q. What forced outage rates will Hydro be using for its various plants in determining
 2 its LOLH from 2014/15 onwards? In determining the forced outage rates, what
 3 consideration was given to recent performance of units, in particular the Holyrood,
 4 Hardwoods, Stephenville and Bay d’Espoir units? What is the lowest possible LOLH
 5 assuming that all generating and transmission belonging to Hydro’s, NP’s and other
 6 generation owners’ assets are online?

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9 A. Hydro will be using the following present forced outage rates for its various plants
 10 in determining its LOLH from 2014/15:

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Unit/Class of Units	Derated Adjusted Forced Outage Rate, %	Utilization Forced Outage Rate, %
NL Hydro Hydro Units	0.90	N/A
Existing Combustion Turbines (CT)	N/A	10.62 (Also 20.62 as a sensitivity)
Holyrood 120 MW CT	N/A	5.0
Holyrood	9.64 (Also 11.64, as a sensitivity)	N/A
Standby Diesel	N/A	1.18
NP Hydro Generation	3.19	N/A
DLP Hydro Generation	3.19	N/A
Exploits Generation	2.26	N/A

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13 Consideration was given to recent performance of units, in particular the Holyrood,
 14 Hardwoods, Stephenville and Bay d’Espoir units as follows:

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- 16 • Holyrood (2007 - 2012) – 10.39% (Holyrood 1 Forced Outage Rate for 2013 is
 17 considered to be an outlier). 9.64% is being used as a base, with 11.64% as a
 18 sensitivity.

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- 1 • Hardwoods (2008 - 2013) – 18.95%. 10.62% is being used as base, with
- 2 20.62% as a sensitivity.
- 3 • Stephenville (2008 - 2012) – 11.18%. 10.62% is being used as base, with
- 4 20.62% as a sensitivity.
- 5 • Bay D’Espoir (2008 - 2013) – 0.48%. 0.90% is being used for all NL Hydro
- 6 hydro units.

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8 Assuming that all generation is in-service, including the new 120 MW CT, the lowest

9 LOLH for 2015 is calculated to be:

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11 P-50 Forecast – Base Availability – 0.69 hours per year