

1 Q. Reference: Hydro's November 30, 2016 *Energy Supply Risk Assessment*
2 On Page 9 of the Liberty Consulting Group *Review of Newfoundland and Labrador*
3 *Hydro Power Supply Adequacy and Reliability Prior to and Post Muskrat Falls – Final*
4 *Report*, it states:

5 *“The failure of both units during each of the last three winters gives a strong basis*
6 *for concern that the chances this capacity will be there when needed are not good.*
7 *Any capacity assessment that assumes a good chance of both units starting when*
8 *needed must be considered questionable in our opinion.”*

9 Please provide an update on the current status of the Hardwoods and Stephenville
10 gas turbines. In the response please indicate the availability of these gas turbines,
11 at full capacity, thus far in the 2016/2017 winter season.

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14 A. Hardwoods gas turbine was refurbished and reinstalled in November 2016, and has
15 been rated at its full capacity of 50 MW since the winter season began on
16 December 1, 2016.

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18 With respect to Stephenville, one 25 MW engine has been in-place and available
19 since December 1, 2016. The failed engine was refurbished as planned and
20 successfully passed all factory testing in the Fall of 2016. It was then transported to
21 site, where it was reinstalled. During commissioning, the refurbished engine
22 experienced vibration issues that could not be resolved, and therefore could not be
23 returned to service. Hydro brought the refurbishment vendor to site to investigate;
24 however, they were also unable to resolve the vibration issue. Therefore, Hydro has
25 removed the refurbished unit and installed and commissioned a leased loaner
26 engine (a 19 MW unit) on January 12, making the capacity of the Stephenville site
27 38 MW. Hydro will continue to work with the vendor to get this unit re-tested to

1 determine and correct the vibration issue. If the unit was damaged while enroute to
2 Newfoundland, it is the responsibility of the vendor. Hydro intends to leave this
3 configuration in place until after the winter period, as the reinstallation of the
4 original 25 MW engine could take up to a week or longer if commissioning issues
5 occur again, and the rating of the whole unit would be 25 MW for the period of
6 reinstallation, as opposed to 38 MW. The Energy Supply Risk Assessment
7 contemplates this type of scenario where units are de-rated.