

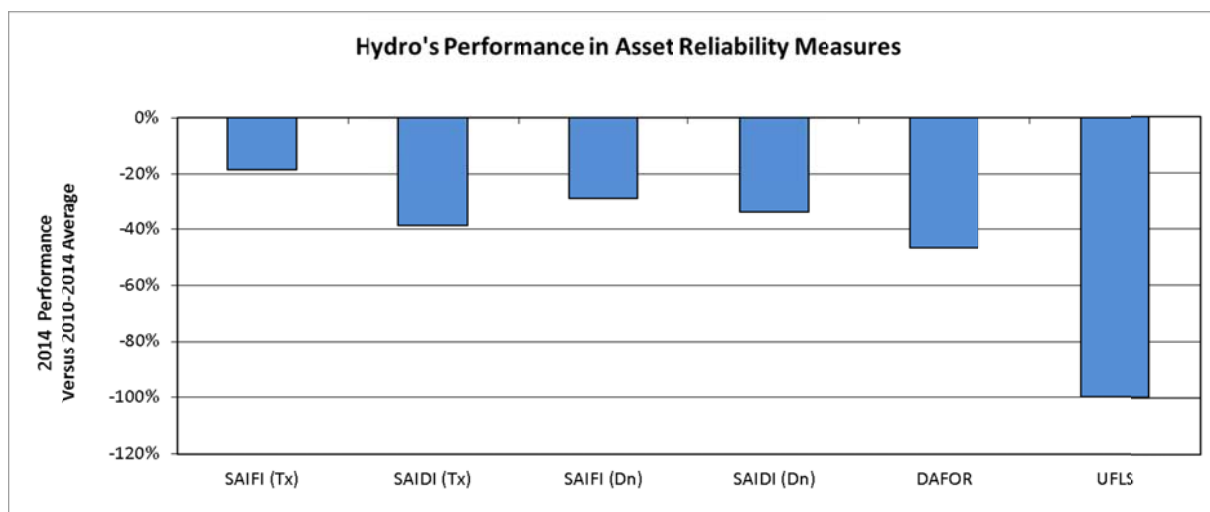
4 Q. Please provide Chart 2.3: Hydro's Improvement in Asset Reliability Measures
 5 revised to show the 2010 – 2014 Average. (July 30, 2013 General Rate Application,
 6 Volume I, Section 2: Regulated Activities, page 2.12, Chart 2.3)

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8 A. The following is a revised Chart 2.3: Hydro's Improvement in Asset Reliability
 9 Measures to show the 2010 – 2014 Average.

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19 Hydro's transmission system performance, as measured by the System Average
 20 Interruption Frequency Index (SAIFI) declined by 18% in 2014 compared to the
 21 average performance for the 2010 to 2014 period. Against the same period, Hydro's
 22 transmission System Average Interruption Duration Index (SAIDI) deteriorated by
 23 39% in 2014. In the area of distribution performance, also measured by SAIFI and
 24 SAIDI, there were declines of 29% and 34% in 2014 over the 2010 to 2014 average,
 25 respectively. The Derating Adjusted Forced Outage Rate (DAFOR) for generation
 26 declined by 47% in 2014 compared to the five-year performance for the 2010 to
 27 2014 period. Hydro continues to track the number of underfrequency load

shedding (UFLS) incidents to measure the number of events in which the shedding of customer load is required to counteract a generator trip. Against the last-five year average, UFLS declined by 100% in 2014.

There were a number of significant events in 2014 that influenced Hydro's reliability performance.

- Transmission reliability was impacted by the significant disturbances on January 4 and 5, 2014, which were precipitated by a transformer failure at Sunnyside Terminal Station and subsequent breaker failures. Distribution reliability was impacted by a number of severe weather related outages, primarily occurring in the Central region in February and April, 2014.
- Hydro's generation reliability performance was affected by the major failure of two rectifying transformers on Bay d'Espoir Unit 6. The in-service rectifying transformer failed on January 30, 2014 and the unit was returned to service on February 1, 2014, using the spare transformer. This spare transformer failed on February 17, 2014 and, with no other spares available, a new transformer was required to be built. The unit was returned to service on August 5, 2014 with a new rectifying transformer.
- There were 14 Underfrequency Load Shedding events in 2014. Three were initiated by issues at the Bay d'Espoir generating station. Ten were a result of problems at Holyrood. The other event was initiated by a slow clearing fault on transmission line TL201.