

1 Q. Reference: Upgrade Power Transformers, Volume II, Tab 14
2 *At page 17 of its Interim Report of May 15th, 2014, in its Investigation and Hearing*
3 *into the Supply Issues and Power Outages on the Island Interconnected System,*
4 *the Board found that Hydro deferred preventative maintenance in 2013 on its*
5 *Sunnyside T1 transformer even though laboratory analysis showed a significant*
6 *increase in acetylene gas in the transformer.*

7 Please provide detailed explanation as to whether Hydro views its use of condition
8 assessment tools in 2013 on its Sunnyside T1 transformer as consistent with North
9 American utility practice.

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12 A. Hydro believes its use of condition assessment tools in 2013 on its Sunnyside T1
13 Transformer is consistent with North American utility practice as it relates to oil
14 sampling and the interpretation of the results. The results on this transformer
15 showed acetylene levels similar to what was seen in 2013 and as far back as 1994,
16 with a slight increase of 4 ppm from 2012 to 2013. In using IEEE Standard C57.104
17 (IEEE Guide for the Interpretation of Gases Generated in Oil Immersed
18 Transformers”), these results would show as a Condition I, which would mean to
19 resample on an annual basis.