

1 Q. **Re: Page 24, lines 7-9**

2 With respect to the use of DAFOR as the metric for measuring Holyrood reliability,  
3 please describe any consideration given to additional or alternate metrics, and  
4 describe the reasons for not employing them.

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7 A. In its May 2017 Near-Term Generation Adequacy Report, Hydro had considered  
8 Derated Adjusted Utilization Forced Outage Probability (DAUFOP) as a measure of  
9 reliability for both its gas turbines and the thermal units at Holyrood. While Hydro  
10 chose to use DAUFOP for gas turbine reliability in its analysis, it was decided that  
11 Deration Adjusted Forced Outage Rate (DAFOR) remained the most appropriate  
12 reliability metric for the three Holyrood thermal units. From that report:

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14 *The reliability of the Holyrood thermal units is currently measured*  
15 *using the DAFOR metric. This metric measures the percentage of the*  
16 *time that a unit, or group of units, is unable to generate at its*  
17 *maximum continuous rating due to forced outages. This measure*  
18 *includes unit deratings in its calculation. DAUFOP can also be*  
19 *calculated for these units, however the DAUFOP calculation results*  
20 *in a slightly lower, and therefore less conservative, value than the*  
21 *associated DAFOR. Given Hydro's focus on conservative assessment*  
22 *of Holyrood unit reliability, Hydro intends to continue to use DAFOR*  
23 *to measure Holyrood unit reliability as it is more conservative than*  
24 *DAUFOP.*