

1 Q. Page 3 of the *Holyrood Blackstart Analysis* report states:
 2 “Information regarding refusal to start or failure during operation is not available at
 3 this time.”

4 Is Hydro now in a position to provide this information? If not, why not?

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7 A. The information regarding the refusal to start or failure during operation is
 8 indicated in the reliability performance for the unit. Following is a table of the
 9 performance data for the five-year period 2007-2011, which is also compared
 10 against the CEA average for the same period:

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Holyrood Gas Turbine - Five Year Averages 2007-2011			
Unit	All Causes		
	Capability Factor (%)	UFOP (%)	Failure Rate
Holyrood GT (2007-2011)	86.80	10.40	475.33
CEA (2007-2011)	87.21	10.04	21.58

Capability Factor is defined as unit available time. It is the ratio of the unit's available time to the total number of unit hours.

UFOP is defined as the Utilization Forced Outage Probability. It is the probability that a generation unit will not be available when required. It is used to measure performance of standby units with low operating time such as gas turbines.

Failure Rate is defined as the rate at which the generating unit encounters a forced outage. It is calculated by dividing the number of transitions from an operating state to a forced outage by the total operating time times 8760.