

1 Q. What role did Holyrood black start play during the supply disruptions of the  
2 2013/14 winter? How would the diesel project underway at Holyrood have  
3 impacted the events?  
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6 A. The North American Electric Reliability Corporation (NERC) defines Blackstart  
7 Resource as:  
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9 *A generating unit(s) and its associated set of equipment which has*  
10 *the ability to be started without support from the System or is*  
11 *designed to remain energized without connection to the remainder*  
12 *of the System, with the ability to energize a bus, meeting the*  
13 *Transmission Operator's restoration plan needs for real and reactive*  
14 *power capability, frequency and voltage control, and that has been*  
15 *included in the Transmission Operator's restoration plan.*  
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17 The diesel project at Holyrood is designed to provide blackstart capability at the  
18 Holyrood Thermal Generating Station. In addition, it is capable of providing 10 MW  
19 of peaking capacity to the grid.  
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21 The Holyrood blackstart function was not required during the system events, which  
22 occurred on the Island Interconnected System on January 4 and 5, 2014. During  
23 these events, when system disturbances resulted in Holyrood plant outages, the  
24 230 kV transmission lines into the Holyrood Terminal Station tripped but were able  
25 to be restored in a short period of time. Therefore, except for these transmission  
26 restoration times, there was no time when the Holyrood Generating Station was  
27 without station service and required blackstart power. The restoration time

1 following each event is indicated in Schedule 2 "*Sequence of Events Following*  
2 *Sunnyside Transformer Fault on January 4, 2014*" and the restoration of the  
3 Holyrood plant is discussed in Schedule 10, "*Emergency Response and Restoration*"  
4 which are contained in Hydro's report "*A Review of Supply Disruptions and Rotating*  
5 *Outages: January 2-8, 2014*" filed with the Board on March 24, 2014.

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7 For the rotating outages that occurred during the period of January 2 to January 8,  
8 2014, having the peaking capacity of 10 MW available may have reduced the  
9 amount of feeder interruptions required during this period. Please refer to Hydro's  
10 response to PUB-NLH-052 for further information on the feeder interruptions.