

1 Q. Please provide the estimated reliability, using the same measures as in the response
2 to PR-PUB-NLH-108, of the black start system as a whole during use of the 8 diesel
3 generators.

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6 A. As noted in Hydro's response to PR-PUB-NLH-108, the estimated reliability, in terms
7 of Operational Availability, is 99.7409685 percent, for each of the eight diesel
8 generators that form part of the blackstart system.

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10 Based on 99.7409685 percent, the estimated reliability of the blackstart system as a
11 whole, all eight units on, is 97.95 percent.

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13 The estimated probability of seven of eight units being available is 99.98 percent.
14 From Hydro's response to NP-NLH-018 from Hydro's Application, *Installation of*
15 *Diesel Units for the Purpose of Blackstarting:*

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17 Hydro has the alternative to blackstart Holyrood Unit 3 instead of
18 Unit 1 or Unit 2. The boiler feed pump motors on Unit 3 are 2500 hp
19 motors. Analysis has confirmed that seven 1.825 MW diesel units are
20 required to successfully start the 2500 hp boiler feed pump of Unit 3.
21 Successful blackstart of Unit 3 using seven diesel units would then
22 enable start of Holyrood Units 1 and 2.