

1 Q. (February 19, 2016 Report to Board “Purchase 12 MW of Diesel Generation  
2 (Revised) Holyrood”, page 13) Please confirm that the additional two diesel units  
3 will not be needed to meet Hydro’s system planning criteria and explain why.  
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7 A. As noted in **Section 2.4 Diesels: Required Capacity to Meet P90 Peak** beginning on  
8 page 7 and Table 2 on page 8, under current assumptions<sup>1</sup>, the 10 MW of capacity  
9 realized from this purchase will suffice to ensure the adequacy of supply for a P90  
10 peak loading condition on the Avalon Peninsula in the event of a single worst-case  
11 contingency involving the loss of transmission line TL202 or TL206. Thus, the two  
12 additional diesels will not be needed to meet Hydro’s system planning criteria.

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14 As noted in the last paragraph on page 4:

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16 *With only two 230 kV transmission lines interconnecting the Avalon  
17 Peninsula to the rest of the Interconnected Island System, the  
18 delivery of hydroelectric capacity from the western portion of the  
19 system is constrained. Reserve levels on the Avalon Peninsula are  
20 therefore more restricted than those of the Island System and must  
21 be calculated separately.*

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23 Therefore, under current assumptions, if reserve levels on the Avalon Peninsula are  
24 met, then reserve levels on the Island are met.

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<sup>1</sup> Hydro’s current assumptions do not reflect any potential changes to Holyrood capacity or availability. Holyrood’s expected capacity and availability are currently under review.