

1 Q. **Re: GRK-NLH-045 Rev. 1 Citation from the RFI:**

2 Q. Have any studies been performed including progressive failure analysis in the  
3 North Spur? If so, please provide the complete analysis. If not, why not?

4 **Preamble:**

5 The list of studies and analyses mentioned on page 2, lines 7-16 does not include  
6 mention of a progressive failure analysis.

7 Recent research has demonstrated that Limit Equilibrium analysis has no  
8 relevance in assessing the stability hazard in very sensitive clay formations, and  
9 that progressive failure analysis is required.

10 **Please confirm that no progressive failure analysis has been carried out in**  
11 **relation to the North Spur. If it has, please provide a copy.**

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14 A. The studies that have been carried out are listed in GRK-NLH-045 (Revision 1, Feb  
15 27-15). That response further goes on to specifically state that:

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17 The approach used to stabilize the North Spur focuses on  
18 eliminating triggers to progressive failure to prevent them  
19 from disturbing the site and then to undertake specific  
20 analysis to address the remaining triggers (such as seismic  
21 events) to ensure they will not trigger a slide event.

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23 As the Board noted in its Order No. P.U. 5(2015) at Page 4, it has already clarified in  
24 Order No. P.U. 41(2014) that it is “not necessary for Hydro to provide detailed  
25 technical information or reports related to engineering and construction issues”.

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27 As required by the Board, Hydro has directed its responses to the risks and  
28 consequences to the Island Interconnected System of the scenarios and issues  
29 raised.