

1 Q. Please provide a copy of the document in which “Muskrat Falls engineer assigned to
2 provide independent project oversight looked at the North Spur plans and
3 concluded that they meet currently accepted geotechnical standards, and should
4 stabilize the spur when Muskrat Falls is built.”

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7 A. The document referenced is the report of the Independent Engineer and filed as
8 Attachment 1 to Hydro's response to PUB-NLH-210. The statement may be found in
9 Section 2.3.4 of the report, and is repeated below:

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The stabilization works have been designed in accordance with currently accepted geotechnical design practices and will effectively stabilize the north spur when the reservoir is impounded. The upstream impervious blanket and the plastic cement slurry cut-off walls will control seepage and piezometric levels in the spur. Slope flattening excavations and the placement of lower slope weighting berms will enhance slope stability. Erosion control blankets of rockfill and rip rap will be placed on the upstream and downstream slopes to prevent natural erosion that would contribute to slope degradation and instability over time. The planned long term monitoring program is an important component of the works which will ensure safe operation of the reservoir and detect on a timely basis any anomalous behavior that may affect safe operations.

The IE has reviewed various aspects of the geotechnical designs and planned works. Detailed and rigorous investigations and

1 *laboratory testing of samples have provides accurate geotechnical*
2 *and hydrogeological data. Limit Equilibrium stability analyses have*
3 *been carried out for the final slopes. Various materials*
4 *assessments have been done to determine gradations of the*
5 *various fill materials that will be used. These works have been*
6 *augmented by a seismicity study, 2D seepage analysis and*
7 *reservoir landslide generated wave height studies. All of this work*
8 *has been carried out to a high standard.*

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10 Hydro also notes that in its Motion Order No. P.U. 41(2014), the Board
11 ruled that this proceeding will not involve an analysis or technical review
12 of engineering and construction issues associated with the Muskrat Falls
13 project and it is not necessary for Hydro to provide detailed technical
14 information or reports relating to engineering or construction issues for
15 the Muskrat Falls project, including in relation to the North Spur.