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Q. Please refer to page 14 of the Upgrade Transmission Line Corridor Report. Explain 2 whether or not the HVdc cable, overhead line and converter equipment are all rated for continuous monopolar operation at 675MW (Muskrat Falls), or if there 3 will be a shortening of the life expectancy of parts or all of the mentioned 4 5 equipment during such an operating condition. In the response include the 6 implications of continuous operation at maximum specified ambient temperature. 7 8 9 A. The converter equipment and overhead line are rated for continuous monopolar 10 operation at 675 MW (Muskrat Falls) at the maximum specified ambient

temperature with no loss of life in the components. Operation in continuous

1286 A continuous current rating in bipolar mode of operation.

monopolar operation requires that two HVdc cables be connected to the pole in

operation. At 675 MW, the individual cable current equals 964 A which is below the

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