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1	Q.	Please provide all reports and expert opinions relating to the life of HVDC cables
2		overland or in a water free environment.
3		
4		
5	A.	The only HVdc cables incorporated as part of the Lower Churchill Project are the
6		submarine cables under the Strait of Belle Isle and approximately one km of buried
7		cable on either side of the Strait. The factors affecting the life of HVdc cables were
8		discussed in Hydro's response to DD-NLH-067 Attachment 1. The thermal
9		conductivity of the material surrounding the cable is a design consideration, and the
10		Distributed Temperature Sensing (DTS) system will be used to monitor the
11		temperature of the cables and to avoid exceeding design temperature limits.