		Page 1 of 3
1	Q.	Re: Labrador East Reliability Plan, Monthly Status Report, December 17, 2018,
2		page 2
3		
4		Citation: 2.3 Inspections of L1301/L1302
5		Status: Ongoing
6		Progress to Date: Ongoing
7		
8		Hydro has carried out infrared inspection of all line splices on L1301/L1302, with no
9		defective splices discovered. Hydro has carried out several aerial patrols, most
10		recently on November 5, 2018. No additional deficiencies were identified from the
11		last aerial patrol. Patrols will continue at six-week intervals throughout the 2018-
12		2019 winter season, with the next patrol scheduled for December 19, 2018.
13		
14		a) Have any deficiencies been identified in L1301/L1302 since these regular
15		inspections began? If so, please provide a list of all such deficiencies identified
16		and the corrective measures that were taken.
17		b) Given these findings and the ongoing inspection protocol, please provide
18		Hydro's best estimate of the probability of a major outage of the L1301/L1302
19		during winter 2018/19 and 2019/20.
20		c) Does Hydro own and operate any other radial transmission lines constructed in
21		the 1970s or earlier? If so, please identify each one, and the refurbishments
22		currently planned (if any), including estimated commissioning date and capital
23		cost.
24		
25		
26	A.	
27		a) A list of deficiencies on L1301/L1302 found since aerial patrols began in 2018,
28		along with the associated corrective actions, is included in Table 1.

Table 1: L1301/L1302 Deficiencies and Corrective Actions

Structure	Deficiency Identified	Corrective Action Taken
Number		
41	Damaged Crossarm	Repair Crossarm
42	Damaged Deadend Connection	Replace Deadend Connection
228	Damaged Crossarm	Replace Crossarm
387	Damaged Ground Wire	Replace Ground Wire on Right Crossarm
451	Damaged left pole	Replace Left Pole
452	Damaged Crossarm	Repair Crossarm
491	Damaged Crossarm	Replace Crossarm
502	Damaged Insulators	Replace all Insulators
506	Missing Cotter and loose pin	Replace Left Phase Cotter Pins
532	Damaged Crossarm	Repair Crossarm
572	Broken Guy Anchor	Replace Guy Wire and Anchors
614	Damaged Crossarm	Repair Crossarm
637	Missing cotter key on conductor clamp	Replace Cotter Key on Conductor Clamp
656	Missing cotter key on conductor clamp	Replace Cotter Key on Conductor Clamp
771	Loose Crossbrace	Tighten Center bolt in Crossbrace.
772	Damaged Right Pole, Missing	Replace Right Pole (60/2). Replace Cotter Key
	Cotter Key	on Left Phase.
775	Loose Crossbrace	Tighten Crossbracing
797	Missing Guy Guards	Replace Guy Guards (6)
819	Damaged Crossarm	Repair Crossarm
1137	Damaged Crossarm	Replace Crossarm
1172	Damaged Crossarm	Replace Crossarm
1264	Damaged guy wire and anchors	Replace Guy Wire and Anchors

b) Prediction of a major outage is not possible. Short-term outages due to failure of an individual component under normal loading conditions are possible, although increased inspection reduces the probability of these outage types. Major outages would typically be due to meteorological events that cause structural overload beyond design capability causing failure of multiple structures. The probability of such a meteorological event is not related to maintenance inspections.

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LAB-NLH-048

2018 Capital Budget Application – Muskrat Falls to Happy Valley Interconnection Project

Page 3 of 3

c)	The capital project under consideration pertains to the transmission reliability
	and capacity in Labrador East; Hydro's other transmission assets are not
	relevant to this proceeding.

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