

1 Q. **Re: Section 5.9, page 5.35**

2 Citation:

3 The average embedded cost for transmission demand allocated to Labrador
4 industrial Customers has increased from the \$1.19 per kW approved for the 2015
5 Test Year to \$1.44 per kW for the 2018 Test Year and \$1.86 per kW for the 2019
6 Test Year. The increase results from the additional transmission investment on the
7 Labrador Interconnected System reflected in the 2018 and 2019 Test Years
8 compared to 2015 Test Year.

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10 Please provide a detailed list of the additional transmission investments on the
11 Labrador Interconnected System since 2015, with amounts expended per year.

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14 A. Please refer to LAB-NLH-033, Attachment 1 for a detailed list of the additional
15 transmission investments on the Labrador Interconnected System since 2015.

Newfoundland and Labrador Hydro
Labrador Interconnected System - Transmission Demand Asset Details (\$)

In-Service Date	Asset Name	Capital Cost
2016	138KV Insulators 2016, HVYTS	53,711
	25KV Insulators 2016, HVYTS	27,970
	B12B14 Upgrade 2016, HVYTS	72,966
	Breaker, T4B14, HVYTS	134,785
	Bus Upgrade 2016 HVYTS	123,030
	Bushing 1, T4B14 HVYTS	14,796
	Bushing 2, T4B14, HVYTS	15,404
	Bushing 3, T4B14, HVYTS	15,404
	Bushing 4, T4B14,HVYTS	15,404
	Bushing 5, T4B14, HVYTS	15,404
	Bushing 6, T4B14, HVYTS	15,404
	Concrete Foundations ,HVYTS	173,701
	CT T4B14 C PH, HVYTS	54,117
	Disconnect, T4B13, HVYTS	145,122
	Disconnect, T4B14-1, HVYTS	41,550
	Grounding Upgrades 2016, HVYTS	54,928
	MIMIC Panel Upgrade 2016,HVYTS	205,927
	Protection Panel T4, HVYTS	133,569
	Revenue Metering Up, HVYTS	29,997
	Tap Changer Upgrade, HVYTS	190,726
	BUSHING H1,T4 HVYTS	27,209
	BUSHING H2,T4 HVYTS	27,209
	BUSHING H3,T4 HVYTS	27,209
	BUSHING H1, T32, CHF TS	20,111
	BUSHING H2, T32, CHF TS	20,111
	BUSHING H3, T32, CHF TS	20,111
	BUSHING X1, T32, CHF TS	20,111
	BUSHING X2, T32, CHF TS	20,111
	BUSHING X3, T32, CHF TS	20,111
	L1301 PT, B Ph., CF TS	34,748
	TL-1301,WPLM 2016 Inspections	174,904
	TL-1301,WPLM 2016 Refurb.	79,502
	TL-1301,DE Structures	1,094,365
		2016 Sub-Total
2017	Replace Instrument Transformers	391,859
	Replace Recloser - WAB	199,200
	Upgrade Circuit Breakers - 2017	5,989,416
	Upgrade Terminal Station - Wabush	2,585,300
	2017 Sub-Total	9,165,775
2018	Project Proposal - Interconnect MFA to HVY	23,513,900
	Replace Instrument Transformers - Various Sites	80,283
	Replace Insulators - Various Sites	700,737
	Upgrade Circuit Breakers - 2018	3,349,802
	Upgrade Power Transformers - Various Sites	147,056
	Upgrade Terminal Station - Wabush 2018	327,300
	2018 Sub-Total	28,119,078
2019	Project Proposal - Interconnect MFA to HVY	190,650
	Refurbish WAB TS	2,587,250
	Replace Battery Banks and Chargers - Various locations 2018 - 2019	582,349
	Replace Instrument Transformers (2018)	167,870
	Upgrade Power Transformers 2018-2019	964,637
	2019 Sub-Total	4,302,105
Total		44,706,688