

Network Additions Policy and Labrador Interconnected System Transmission Expansion Study

- 1 Q. Reference: Labrador Expansion Study, Appendix B, page 15 (p. 79 pdf); Network Addition
 2 Policy, page 8 (pdf),
 3 Citation 1:

Table 5: Overview of CPW of Preferred Alternatives and Transfer Capacity

Alt	Description	Forecast (MW)	Winter Firm Capacity (MW)	Non-Firm Capacity (MW)	Estimated Cost (\$ million)	CPW (\$ million)
4	WTS Upgrades (Baseline)	383	252	387	15.1	13.2
5	WTS Upgrades (Low Incremental)	434	252	454	31.7	27.6
17	315 kV Transmission Line from BLK to FLK with 46 kV connection from FLK	499	499	600	153.2	148.1

- 4 Citation 2:

Table 1
Derivation of Expansion Costs per kW

Region	Capacity kW	Description	2019 Capital Investment (\$000)	Direct Investment \$ per kW
Labrador East	21,000	Transformer Upgrades at HV-GB	5,000	238
	37,000	Transformer Upgrades at HV-GB and MF Terminal Station	15,000	405
	100,000	Construct second line from MF to HV-GB	50,000	500
Labrador West	33,000	Wabush TS Upgrades and 230 kV uprating	16,500	500
Sub-Total	191,000		86,500	453
	O&M ⁹			12
Total				465

- 5 Please explain the relationship between the three Labrador West projects listed in Table 5
 6 of Appendix B of the Transmission Expansion Study and the one Labrador West project
 7 found in Table 1 (Expansion Cost Derivation) of the Network Addition Policy.

- 1 A. The Labrador West project found in Table 1 (“Derivation of Expansion Costs per kW”) of the
2 “Labrador Interconnected System Network Additions Policy Summary Report” represents
3 the incremental components found in Alternative 5 - WTS¹ Upgrades (Low Incremental)
4 that are not included in Alternative 4 – WTS Upgrades (Baseline). Please refer to
5 Newfoundland and Labrador Hydro’s response to LAB-NLH-093

¹ Wabush Terminal Station (“WTS”).