

1 Q. **Re: Exhibit 14 and 15, Schedule 2.1E**

2 Please:

3 a) provide source data and appropriate breakdowns for the following lines for
4 Column 5 (Transmission Demand \$) for FY 2018 (Exhibit 14) and FY 2019 (Exhibit
5 15) for the Labrador Interconnected System :

6 i. Line 1 (operating and maintenance,

7 ii. Line 7 (depreciation)

8 iii. Line 21 (Return on Debt)

9 iv. Line 22 (Return on Equity)

10 b) provide a list of the assets in the Labrador Transmission System rate base,
11 including for each:

12 v. the name and identifier,

13 vi. the original cost,

14 vii. the book value (after accumulated depreciation).

15 c) explain the status of any transmission assets in Labrador that are not included in
16 this rate base calculation (e.g. if appropriate, the lines connecting Churchill Falls
17 to Quebec).

18

19

20 A. a) Please note the following schedules for the breakdown of costs:

21 i. Operating and Maintenance expense of \$3,877,057 in 2018 and
22 \$4,028,017 in 2019 - Exhibit 14 and 15, Schedule 2.4E, Column 5.

23 ii. Depreciation expense of \$1,030,790 in 2018 and \$1,954,775 in 2019 -
24 Exhibit 14 and 15, Schedule 2.5E, Column 5.

25 iii. Return on Debt of \$1,758,076 in 2018 and \$2,433,849 in 2019- Exhibit 14
26 and 15, Schedule 2.6E, Column 5 (i.e. average rate base of \$42,356,158 x

1 return on debt of 4.15% in 2018 and average rate base of \$60,019,820 x
2 4.04% in 2019).

3 iv. Return on Equity \$668,254 in 2018 and \$988,505 in 2019 - Exhibit 14 and
4 15, Schedule 2.6E, Column 5 (i.e. average rate base of \$42,356,158 x
5 return on equity of 1.58% in 2018 and average rate base of \$60,019,820
6 x 1.64% in 2019).

7 b) Please see the revised Attachment 1 and Attachment 2 for a list of the assets in
8 the Labrador Transmission System rate base for each of FY 2018 and FY 2019,
9 respectively, including i. the asset name, ii. the original cost and iii. the net book
10 value (after accumulated depreciation).

11 c) Transmission assets in Labrador that are not included in the rate base
12 calculation include lines owned by Churchill Falls (Labrador) Corporation,
13 Labrador Transmission Corporation, Iron Ore Company of Canada, and Tacora
14 (former Wabush Mines) as identified as "Owned by Others" in the GRA
15 evidence, Exhibit 1, Schedule IV, Page 1 of 1, as per below:

16 i. Churchill Falls (Labrador) Corporation - L 7051, L 7052 & L7053, and the
17 735kV Terminal Station and related assets.

18 ii. Labrador Transmission Corporation - L3101 & L 3102, and the 315 kV
19 Terminal Station and related assets.

20 iii. Iron Ore Company of Canada - IOC 1, IOC 2, IOC 3, IOC 4, IOC 5A, IOC 5B,
21 IOC 6 & IOC 7.

22 iv. Wabush Mines - Wabush Mines 1 and Wabush Mines 2.

Newfoundland and Labrador Hydro
2018TY Labrador Interconnected System - Transmission Assets (\$)

Asset Name	Average Net Book Value	Average Original Cost	Original Cost
#12-1 CONTROL CABLE	216	556	556
#12-2 CONTROL CABLE	712	1,833	1,833
#12-4 CONTROL CABLE	1,163	2,994	2,994
#12-8 CONTRL CABLE	364	937	937
#18-2 CONTROL CABLE	200	515	515
#8-4 CONTROL CABLE	1,938	4,988	4,988
125 VDC BATTERIES, HVY TS	28,800	53,249	53,249
125 VDC BATTERIES, TROL SPARE	4,340	4,437	4,437
125VDC Battery Bank - WABSS	48,475	58,153	58,153
125VDC Charger - HVY	27,646	39,783	39,783
129VDC BATTERY BANK	4,457	17,564	17,564
138KV Insulators 2016, HVYTS	49,247	53,711	53,711
15/20/25 MVA CGE POWER TRANSFO	282,197	704,911	704,911
20' X 20'4" CONCRETE FOUNDATIO	1,023	2,508	2,508
20' X 24' CONCRETE BUILDING FO	11,447	15,948	15,948
20' X 24' EXTENSION TO METAL B	50,953	70,708	70,708
25KV Insulators 2016, HVYTS	25,646	27,970	27,970
400 WATT LIGHTING FIXTURES	2,928	9,859	9,859
400 WATT MERCURY VAPOUR LIGHT	1,627	5,477	5,477
559.5 AAAC, 19 STR, DARIEN	1,812,199	4,485,107	4,485,107
559.5 MCM AASC CONDUCTOR	0	218,565	218,565
7' HIGH CHAIN LINK FENCING	12,863	30,807	30,807
A PHASE PT, TL1302, HVY TS	2,855	6,980	6,980
A PHASE PT, BU13, HVY TS	3,075	7,518	7,518
ACCESS ROADS,HVY TS	2,080	5,182	5,182
ADDITIONAL COST FOR ANNUNCIATO	5,675	19,663	19,663
ADDITONAL COST FOR CONTROL PAN	2,832	8,682	8,682
AERIEL SURVEY FOR RIGHT-OF-WAY	23,321	53,434	53,434
APEL & LE CARBONE BATTERY BANK	5,592	22,055	22,055
ARTESIAN WELL	19,832	43,078	43,078
B PHASE PT, BU13, HVY TS	3,075	7,518	7,518
B PHASE PT, TL1302, HVY TS	3,020	7,383	7,383
B12B14 Upgrade 2016, HVYTS	68,520	72,966	72,966
BATTERY CHARGER	2,310	9,102	9,102
BATTERY CHARGER, TROL SPARE	4,340	4,437	4,437
Breaker 46KV, B1L32	84,070	100,008	100,008
Breaker 46KV, B2L40	84,070	100,008	100,008
BREAKER, 13-1 HVY OCB	18,902	46,323	46,323
BREAKER, T1B12 HVY OCB SPARE	23,767	46,323	46,323
BREAKER, T2B14 HVY OCB	18,902	46,323	46,323
Breaker, T4B14, HVYTS	128,190	134,785	134,785
BUILDING STRUCTURE,HVY TS	9,536	22,569	22,569
Bus Upgrade 2016 HVYTS	113,602	123,030	123,030
Bushing 1, T4B14 HVYTS	14,072	14,796	14,796
Bushing 2, T4B14, HVYTS	14,650	15,404	15,404
Bushing 3, T4B14, HVYTS	14,650	15,404	15,404
Bushing 4, T4B14,HVYTS	14,650	15,404	15,404
Bushing 5, T4B14, HVYTS	14,650	15,404	15,404
Bushing 6, T4B14, HVYTS	14,650	15,404	15,404
BUSHING H1, T32, CHF TS	19,215	20,111	20,111
BUSHING H1,T32 CHF TS	39,646	44,381	44,381
BUSHING H1,T4 HVYTS	25,558	27,209	27,209
BUSHING H2, T32, CHF TS	19,215	20,111	20,111
BUSHING H2,T32 CHF TS	39,646	44,381	44,381
BUSHING H2,T4 HVYTS	25,558	27,209	27,209
BUSHING H3, T32, CHF TS	19,215	20,111	20,111
BUSHING H3,T32 CHF TS	39,646	44,381	44,381
BUSHING H3,T4 HVYTS	25,558	27,209	27,209

Newfoundland and Labrador Hydro
2018TY Labrador Interconnected System - Transmission Assets (\$)

Asset Name	Average Net Book Value	Average Original Cost	Original Cost
BUSHING X1, T32, CHF TS	19,215	20,111	20,111
BUSHING X1,T4 HVYTS	2,936	3,379	3,379
BUSHING X2, T32, CHF TS	19,215	20,111	20,111
BUSHING X2,T4 HVYTS	2,936	3,379	3,379
BUSHING X3, T32, CHF TS	19,215	20,111	20,111
BUSHING X3,T4 HVYTS	2,936	3,379	3,379
BUSWORK & HARDWARE	49,338	145,999	145,999
C & D 129 VOLT 60 CELL BATTERY	7,624	18,990	18,990
C & D 129VDC BATTERY CHARGER	7,942	17,543	17,543
C PHASE PT, BU13, HVY TS	3,075	7,518	7,518
Chain Link Fencing	25,392	43,124	43,124
CIRCUIT BREAKER	68,650	168,239	168,239
CONCRETE CABLE TRENCH C/W STEE	2,481	3,420	3,420
CONCRETE EQUIPMENT FOUNDATIONS	41,131	100,797	100,797
Concrete Foundation	7,397	9,714	9,714
Concrete Foundations ,HVYTS	165,616	173,701	173,701
CONCRETE FOUNDATIONS FOR EQUIP	288,865	716,325	716,325
CONCRTE CABLE TRENCH C/W COVER	13,337	32,343	32,343
CONDUIT	169	435	435
CONTROL CABLE - (#12-2,12-4 CO	59	149	149
CONTROL CABLE (#18-2 CONDUCTOR	932	2,349	2,349
CONTROL CABLE (#18-2,#12-2,#12	1,003	2,528	2,528
CONTROL CABLES	34,875	90,876	90,876
CONTROL METERING & REALING PAN	25,830	80,167	80,167
COUNTERPOISE	47,657	123,319	123,319
CT BUSHINGS ON EXISTING OIL CI	19,179	47,669	47,669
CT T4B14 C PH, HVYTS	50,689	54,117	54,117
Disconnect Switch B1B2	22,464	28,376	28,376
Disconnect Switch B1L32-1	26,571	33,563	33,563
Disconnect Switch B1L32-2	23,220	29,330	29,330
Disconnect Switch B2L40-1	26,571	33,563	33,563
Disconnect Switch B2L40-2	23,220	29,330	29,330
Disconnect Switch B4T2-1	21,076	26,623	26,623
Disconnect, T4B13, HVYTS	136,279	145,122	145,122
Disconnect, T4B14-1, HVYTS	39,018	41,550	41,550
DISCONNECT,1B13,HVY TS	5,178	13,880	13,880
DISCONNECT,1L13,HVY TS	3,884	10,410	10,410
DISCONNECT,L13B13,HVY TS	5,178	13,880	13,880
DISCONNECT,T1B13,HVY TS	4,668	12,492	11,104
DISCONNECT,T2B13,HVY TS	2,920	7,828	7,828
FAULT LOCATOR	13,334	37,085	37,085
FERRANTI PACKARD 138KV CURRENT	10,303	25,191	25,191
FERRANTI PACKARD 138KV POTENTI	2,284	5,584	5,584
FERRANTI PACKARD POTENTIAL TRA	2,284	5,584	5,584
Ground Switch L32G	23,220	29,330	29,330
Ground Switch L40G	23,220	29,330	29,330
Grounding	23,467	50,612	50,612
GROUNDING UPGRADE, HVY TS 2011	1,037	1,270	1,270
GROUNDING UPGRADE, MFA TS 2011	632	770	770
Grounding Upgrades 2016, HVYTS	52,470	54,928	54,928
HV ARRESTOR, T2 HVY TS	9,283	11,226	11,226
Insulators	570,749	1,497,722	1,497,722
Insulators tangent angle and	310,813	815,613	815,613
KEARNEY NATIONAL 138KV DISCONN	12,337	33,073	33,073
KEARNEY NATIONAL 230KV DISCONN	39,042	104,661	104,661
L1301 PT, B Ph., CF TS	33,199	34,748	34,748
L32 Line Protection	64,518	89,752	89,752
LAND IMPROVEMENTS	24,550	62,514	62,514

Newfoundland and Labrador Hydro
2018TY Labrador Interconnected System - Transmission Assets (\$)

Asset Name	Average Net Book Value	Average Original Cost	Original Cost
LAND IMPROVEMENTS TO 54,000 SQ	53,707	136,762	136,762
LAND Purchase- Happy Valley	46,200	46,200	46,200
LAND, ADJACENT TO STN, WABTS	464,146	464,146	464,146
LINE PROTECTION PANEL #1	4,388	13,619	13,619
LOW VOLTAGE CMR EQUIPMENT	3,446	10,566	10,566
LV ARRESTOR, T2 HVY TS	5,712	6,909	6,909
METERING - PANEL #4	4,388	13,619	13,619
MIMIC Panel Upgrade 2016,HVYTS	189,491	205,927	205,927
OVERHEAD GROUND WIRE	27,310	66,687	66,687
PAVEMENT FOR TERMINAL STATION	7,098	10,276	10,276
PIN TYPE INSULATORS	171	540	540
Pole Structures - CIAC	(1,047,167)	-	-
POWERLINE CARRIERS	13,271	50,795	50,795
PRE-CAST CONCRETE CABLE TRENCH	10,108	24,514	24,514
Project Proposal - Interconnect MFA to HVY	11,721,537	11,756,950	23,513,900
Protection & Control	55,789	92,868	92,868
Protection Panel T4, HVYTS	122,908	133,569	133,569
PT, Bus B1 B Phase	24,239	29,414	29,414
PT, Bus B1 C Phase	24,239	29,414	29,414
PT, Bus B2 A Phase	24,239	29,414	29,414
PT, Bus B2 B Phase	24,239	29,414	29,414
PT, Bus B2 C Phase	24,239	29,414	29,414
PUMP SYSTEM FOR WATER SUPPLY	8,658	17,869	17,869
Replace Instrument Transformers	381,591	195,930	391,859
Replace Instrument Transformers - Various Sites	40,063	40,142	80,283
Replace Insulators - Various Sites	349,425	350,369	700,737
Replace Recloser - WAB	195,800	199,200	199,200
REVENUE METERING EQUIP FOR BAC	2,070	5,054	5,054
Revenue Metering Up, HVYTS	27,603	29,997	29,997
RIG-D Beam Ice Monitoring	12,110	20,677	20,677
RIGHT OF WAY	1,134,472	2,869,773	2,869,773
SANGAMO METER	165	568	568
SEWAGE DISPOSAL - 1 TOILET	2,817	6,807	6,807
SEWAGE DISPOSAL SYSTEM	3,545	4,871	4,871
STRUCTURAL STEEL	99,770	284,535	284,535
SUSPENSION INSULATORS	212,578	558,264	558,264
SUSPENSION TYPE INSULATORS	670	2,124	2,124
SW UPGRADE, 1L13, HVY TS, 2012	17,147	22,014	22,014
SW UPGRADE, L13G, HVY TS, 2012	17,146	22,012	22,012
SYNCHRONIZING PANEL #6	5,369	18,727	18,727
Tap Changer Upgrade, HVYTS	181,779	190,726	190,726
TL1301 Replace Right Pole	36,863	43,259	43,259
TL-1301, WPLM Refurbishment	419,755	458,616	458,616
TL-1301,DE Structures	1,043,227	1,094,365	1,094,365
TL-1301,WPLM 2016 Inspections	166,731	174,904	174,904
TL-1301,WPLM 2016 Refurb.	75,787	79,502	79,502
TL1302, WPLM Inspections 2014	51,004	57,307	57,307
TL240 - WPLM 2005 ASSESSMENT	58,638	79,910	79,910
TL240 WPLM 2009 INSPECTION	62,453	81,248	81,248
TL240 WPLM 2009 REFURBISHMENT	229,194	298,172	298,172
TL240 WPLM 2010 INSPECTION	110,775	149,494	149,494
TL240-WPLM 2006 ASSESSMENT	68,386	92,415	92,415
TL240-WPLM 2007 ASSESSMENT	16,422	21,577	21,577
TL240-WPLM 2008 ASSESSMENT	34,403	56,018	56,018
TL240-WPLM 2008 REFURBISHMENT	19,633	31,969	31,969
TRANSFORMER #1 PROTECTION PANE	4,388	13,619	13,619
TRANSFORMER #2 PROTECTION - PA	4,388	13,619	13,619
TRANSFORMER T6 WABUSH SUB	547,642	650,708	650,708

Newfoundland and Labrador Hydro
2018TY Labrador Interconnected System - Transmission Assets (\$)

Asset Name	Average Net Book Value	Average Original Cost	Original Cost
TRANSFORMER, 100 KVA	4,004	4,608	4,608
TRANSFORMER, 50 KVA	5,676	6,532	6,532
TRANSFORMER, T1 HVYTS 50MVA	612,009	801,876	801,876
TRENCH ELECTRIC 138KV POTENTIAL	2,284	5,584	5,584
TRF CHFT31 (2012),Rplc Oil	75,070	89,784	89,784
TRF Upgrade T3, HVY TS (2012)	100,370	119,711	119,711
Upgrade Circuit Breakers - 2017	5,904,276	5,989,416	5,989,416
Upgrade Circuit Breakers - 2018	1,671,356	1,674,901	3,349,802
Upgrade Power Transformers - Various Sites	73,385	73,528	147,056
Upgrade Terminal Station - Wabush	2,546,222	2,585,300	2,585,300
Upgrade Terminal Station - Wabush 2018	163,304	163,650	327,300
VOLTAGE RECORDER	0	3,781	3,781
WATER SUPPLY SYSTEM (TIE INTO	1,695	6,154	6,154
WESTINGHOUSE 138KVA POWER TRANS	134,783	337,942	337,942
WESTINGHOUSE 138KVA POWER TRANS	134,783	337,942	337,942
WOOD POLE STRUCTURES	2,171,263	5,492,597	5,492,597
Grand Total	36,867,918	51,400,281	65,654,361

Newfoundland and Labrador Hydro
2019 TY Labrador Interconnected System - Transmission Assets (\$)

Asset Name	Avg Net Book Value	Average Original Cost	Original Cost
#12-1 CONTROL CABLE	207	556	556
#12-2 CONTROL CABLE	682	1,833	1,833
#12-4 CONTROL CABLE	1,115	2,994	2,994
#12-8 CONTRL CABLE	349	937	937
#18-2 CONTROL CABLE	192	515	515
#8-4 CONTROL CABLE	1,857	4,988	4,988
125 VDC BATTERIES, HVY TS	26,688	53,249	53,249
125 VDC BATTERIES, TROL SPARE	4,147	4,437	4,437
125VDC Battery Bank - WABSS	45,934	58,153	58,153
125VDC Charger - HVY	25,907	39,783	39,783
129VDC BATTERY BANK	4,119	17,564	17,564
138KV Insulators 2016, HVYTS	47,512	53,711	53,711
15/20/25 MVA CGE POWER TRANSFO	271,310	704,911	704,911
20' X 20'4" CONCRETE FOUNDATIO	992	2,508	2,508
20' X 24' CONCRETE BUILDING FO	11,103	15,948	15,948
20' X 24' EXTENSION TO METAL B	49,442	70,708	70,708
25KV Insulators 2016, HVYTS	24,742	27,970	27,970
400 WATT LIGHTING FIXTURES	2,844	9,859	9,859
400 WATT MERCURY VAPOUR LIGHT	1,580	5,477	5,477
559.5 AAAC, 19 STR, DARIEN	1,728,059	4,485,107	4,485,107
559.5 MCM AASC CONDUCTOR	0	218,565	218,565
7' HIGH CHAIN LINK FENCING	12,499	30,807	30,807
A PHASE PT, TL1302, HVY TS	2,745	6,980	6,980
A PHASE PT, BU13, HVY TS	2,956	7,518	7,518
ACCESS ROADS,HVY TS	1,998	5,182	5,182
ADDITIONAL COST FOR ANNUNCIATO	5,412	19,663	19,663
ADDITONAL COST FOR CONTROL PAN	2,701	8,682	8,682
AERIEL SURVEY FOR RIGHT-OF-WAY	22,656	53,434	53,434
APEL & LE CARBONE BATTERY BANK	5,167	22,055	22,055
ARTESIAN WELL	17,610	43,078	43,078
B PHASE PT, BU13, HVY TS	2,956	7,518	7,518
B PHASE PT, TL1302, HVY TS	2,904	7,383	7,383
B12B14 Upgrade 2016, HVYTS	66,689	72,966	72,966
BATTERY CHARGER	2,134	9,102	9,102
BATTERY CHARGER, TROL SPARE	4,147	4,437	4,437
Breaker 46KV, B1L32	81,666	100,008	100,008
Breaker 46KV, B2L40	81,666	100,008	100,008
BREAKER, 13-1 HVY OCB	18,356	46,323	46,323
BREAKER, T1B12 HVY OCB SPARE	23,187	46,323	46,323
BREAKER, T2B14 HVY OCB	18,356	46,323	46,323
Breaker, T4B14, HVYTS	124,766	134,785	134,785
BUILDING STRUCTURE,HVY TS	9,253	22,569	22,569
Bus Upgrade 2016 HVYTS	110,588	123,030	123,030
Bushing 1, T4B14 HVYTS	13,696	14,796	14,796
Bushing 2, T4B14, HVYTS	14,259	15,404	15,404
Bushing 3, T4B14, HVYTS	14,259	15,404	15,404
Bushing 4, T4B14,HVYTS	14,259	15,404	15,404
Bushing 5, T4B14, HVYTS	14,259	15,404	15,404
Bushing 6, T4B14, HVYTS	14,259	15,404	15,404
BUSHING H1, T32, CHF TS	18,744	20,111	20,111
BUSHING H1,T32 CHF TS	38,217	44,381	44,381
BUSHING H1,T4 HVYTS	24,277	27,209	27,209
BUSHING H2, T32, CHF TS	18,744	20,111	20,111
BUSHING H2,T32 CHF TS	38,217	44,381	44,381
BUSHING H2,T4 HVYTS	24,277	27,209	27,209
BUSHING H3, T32, CHF TS	18,744	20,111	20,111
BUSHING H3,T32 CHF TS	38,217	44,381	44,381
BUSHING H3,T4 HVYTS	24,277	27,209	27,209

Newfoundland and Labrador Hydro
2019 TY Labrador Interconnected System - Transmission Assets (\$)

Asset Name	Avg Net Book Value	Average Original Cost	Original Cost
BUSHING X1, T32, CHF TS	18,744	20,111	20,111
BUSHING X1,T4 HVYTS	2,827	3,379	3,379
BUSHING X2, T32, CHF TS	18,744	20,111	20,111
BUSHING X2,T4 HVYTS	2,827	3,379	3,379
BUSHING X3, T32, CHF TS	18,744	20,111	20,111
BUSHING X3,T4 HVYTS	2,827	3,379	3,379
BUSWORK & HARDWARE	46,978	145,999	145,999
C & D 129 VOLT 60 CELL BATTERY	7,045	18,990	18,990
C & D 129VDC BATTERY CHARGER	7,339	17,543	17,543
C PHASE PT, BU13, HVY TS	2,956	7,518	7,518
Chain Link Fencing	24,674	43,124	43,124
CIRCUIT BREAKER	66,666	168,239	168,239
CONCRETE CABLE TRENCH C/W STEE	2,406	3,420	3,420
CONCRETE EQUIPMENT FOUNDATIONS	39,893	100,797	100,797
Concrete Foundation	7,174	9,714	9,714
Concrete Foundations ,HVYTS	162,003	173,701	173,701
CONCRETE FOUNDATIONS FOR EQUIP	280,172	716,325	716,325
CONCRTE CABLE TRENCH C/W COVER	12,935	32,343	32,343
CONDUIT	162	435	435
CONTROL CABLE - (#12-2,12-4 CO	57	149	149
CONTROL CABLE (#18-2 CONDUCTOR	893	2,349	2,349
CONTROL CABLE (#18-2,#12-2,#12	961	2,528	2,528
CONTROL CABLES	33,423	90,876	90,876
CONTROL METERING & REALING PAN	24,637	80,167	80,167
COUNTERPOISE	45,848	123,319	123,319
CT BUSHINGS ON EXISTING OIL CI	18,625	47,669	47,669
CT T4B14 C PH, HVYTS	48,140	54,117	54,117
Disconnect Switch B1B2	21,808	28,376	28,376
Disconnect Switch B1L32-1	25,795	33,563	33,563
Disconnect Switch B1L32-2	22,542	29,330	29,330
Disconnect Switch B2L40-1	25,795	33,563	33,563
Disconnect Switch B2L40-2	22,542	29,330	29,330
Disconnect Switch B4T2-1	20,461	26,623	26,623
Disconnect, T4B13, HVYTS	132,636	145,122	145,122
Disconnect, T4B14-1, HVYTS	37,976	41,550	41,550
DISCONNECT,1B13,HVY TS	5,024	13,880	13,880
DISCONNECT,1L13,HVY TS	3,768	10,410	10,410
DISCONNECT,L13B13,HVY TS	3,697	11,104	8,328
DISCONNECT,T1B13,HVY TS	4,019	11,104	11,104
DISCONNECT,T2B13,HVY TS	2,833	7,828	7,828
FAULT LOCATOR	12,718	37,085	37,085
FERRANTI PACKARD 138KV CURRENT	9,905	25,191	25,191
FERRANTI PACKARD 138KV POTENTI	2,195	5,584	5,584
FERRANTI PACKARD POTENTIAL TRA	2,195	5,584	5,584
Ground Switch L32G	22,542	29,330	29,330
Ground Switch L40G	22,542	29,330	29,330
Grounding	22,717	50,612	50,612
GROUNDING UPGRADE, HVY TS 2011	1,004	1,270	1,270
GROUNDING UPGRADE, MFA TS 2011	612	770	770
Grounding Upgrades 2016, HVYTS	51,300	54,928	54,928
HV ARRESTOR, T2 HVY TS	9,060	11,226	11,226
Insulators	538,384	1,497,722	1,497,722
Insulators tangent angle and	293,188	815,613	815,613
KEARNEY NATIONAL 138KV DISCONN	11,970	33,073	33,073
KEARNEY NATIONAL 230KV DISCONN	37,878	104,661	104,661
L1301 PT, B Ph., CF TS	32,386	34,748	34,748
L32 Line Protection	61,659	89,752	89,752
LAND IMPROVEMENTS	24,041	62,514	62,514

Newfoundland and Labrador Hydro
2019 TY Labrador Interconnected System - Transmission Assets (\$)

Asset Name	Avg Net Book Value	Average Original Cost	Original Cost
LAND IMPROVEMENTS TO 54,000 SQ	52,594	136,762	136,762
LAND Purchase- Happy Valley	46,200	46,200	46,200
LAND, ADJACENT TO STN, WABTS	464,146	464,146	464,146
LINE PROTECTION PANEL #1	4,185	13,619	13,619
LOW VOLTAGE CMR EQUIPMENT	3,287	10,566	10,566
LV ARRESTOR, T2 HVY TS	5,575	6,909	6,909
METERING - PANEL #4	4,185	13,619	13,619
MIMIC Panel Upgrade 2016,HVYTS	183,478	205,927	205,927
OVERHEAD GROUND WIRE	26,438	66,687	66,687
PAVEMENT FOR TERMINAL STATION	6,951	10,276	10,276
PIN TYPE INSULATORS	160	539	537
Pole Structures - CIAC	(1,024,623)	-	-
POWERLINE CARRIERS	11,444	50,795	50,795
PRE-CAST CONCRETE CABLE TRENCH	9,804	24,514	24,514
Project Proposal - Interconnect MFA to HVY	23,205,609	23,704,550	23,895,200
Protection & Control	53,404	92,868	92,868
Protection Panel T4, HVYTS	119,008	133,569	133,569
PT, Bus B1 B Phase	23,409	29,414	29,414
PT, Bus B1 C Phase	23,409	29,414	29,414
PT, Bus B2 A Phase	23,409	29,414	29,414
PT, Bus B2 B Phase	23,409	29,414	29,414
PT, Bus B2 C Phase	23,409	29,414	29,414
PUMP SYSTEM FOR WATER SUPPLY	7,688	17,869	17,869
Refurbish WAB TS	2,582,205	2,587,250	5,174,500
Replace Battery Banks and Chargers - Various locations 2018 - 2019	579,611	582,349	1,164,697
Replace Instrument Transformers	363,135	391,859	391,859
Replace Instrument Transformers - Various Sites	79,187	80,283	80,283
Replace Instrument Transformers (2018)	167,211	167,870	335,740
Replace Insulators - Various Sites	687,534	700,737	700,737
Replace Recloser - WAB	190,223	199,200	199,200
REVENUE METERING EQUIP FOR BAC	1,933	5,054	5,054
Revenue Metering Up, HVYTS	26,727	29,997	29,997
RIG-D Beam Ice Monitoring	11,048	20,677	20,677
RIGHT OF WAY	1,102,107	2,869,773	2,869,773
SANGAMO METER	154	568	568
SEWAGE DISPOSAL - 1 TOILET	2,731	6,807	6,807
SEWAGE DISPOSAL SYSTEM	3,436	4,871	4,871
STRUCTURAL STEEL	96,069	284,535	284,535
SUSPENSION INSULATORS	200,523	558,264	558,264
SUSPENSION TYPE INSULATORS	632	2,124	2,124
SW UPGRADE, 1L13, HVY TS, 2012	16,645	22,014	22,014
SW UPGRADE, L13G, HVY TS, 2012	16,643	22,012	22,012
SYNCHRONIZING PANEL #6	5,121	18,727	18,727
Tap Changer Upgrade, HVYTS	177,316	190,726	190,726
TL1301 Replace Right Pole	35,431	43,259	43,259
TL-1301, WPLM Refurbishment	404,575	458,616	458,616
TL-1301,DE Structures	1,012,804	1,094,365	1,094,365
TL-1301,WPLM 2016 Inspections	161,868	174,904	174,904
TL-1301,WPLM 2016 Refurb.	73,577	79,502	79,502
TL1302, WPLM Inspections 2014	49,107	57,307	57,307
TL240 - WPLM 2005 ASSESSMENT	56,277	79,910	79,910
TL240 WPLM 2009 INSPECTION	59,938	81,248	81,248
TL240 WPLM 2009 REFURBISHMENT	219,967	298,172	298,172
TL240 WPLM 2010 INSPECTION	105,546	149,494	149,494
TL240-WPLM 2006 ASSESSMENT	65,633	92,415	92,415
TL240-WPLM 2007 ASSESSMENT	15,761	21,577	21,577
TL240-WPLM 2008 ASSESSMENT	33,018	56,018	56,018
TL240-WPLM 2008 REFURBISHMENT	18,843	31,969	31,969

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2019 TY Labrador Interconnected System - Transmission Assets (\$)

Asset Name	Avg Net Book Value	Average Original Cost	Original Cost
TRANSFORMER #1 PROTECTION PANE	4,185	13,619	13,619
TRANSFORMER #2 PROTECTION - PA	4,185	13,619	13,619
TRANSFORMER T6 WABUSH SUB	519,401	650,708	650,708
TRANSFORMER, 100 KVA	3,856	4,608	4,608
TRANSFORMER, 50 KVA	5,465	6,532	6,532
TRANSFORMER, T1 HVYTS 50MVA	588,398	801,876	801,876
TRENCH ELECTRIC 138KV POTENTIA	2,195	5,584	5,584
TRF CHFT31 (2012),Rplc Oil	72,200	89,784	89,784
TRF Upgrade T3, HVY TS (2012)	96,534	119,711	119,711
Upgrade Circuit Breakers - 2017	5,752,144	5,989,416	5,989,416
Upgrade Circuit Breakers - 2018	3,300,169	3,349,802	3,349,802
Upgrade Power Transformers - Various Sites	145,049	147,056	147,056
Upgrade Power Transformers 2018-2019	962,755	964,637	1,929,273
Upgrade Terminal Station - Wabush	2,480,555	2,585,300	2,585,300
Upgrade Terminal Station - Wabush 2018	322,451	327,300	327,300
VOLTAGE RECORDER	0	3,781	3,781
WATER SUPPLY SYSTEM (TIE INTO	1,505	6,154	6,154
WESTINGHOUSE 138KVA POWER TRAN	129,583	337,942	337,942
WESTINHOUSE 138KVA POWER TRANS	129,583	337,942	337,942
WOOD POLE STRUCTURES	2,083,846	5,492,597	5,492,597
Grand Total	54,103,970	70,144,339	74,634,316