

- 1 Q. The Application indicates the financial and rate impacts of the proposed
2 depreciation rates but does not include any of the supporting documentation/
3 calculations showing those impacts. Page 3 of Hydro's evidence states that the
4 estimated impact of changing depreciation methodologies will be a 0.5% increase
5 on retail customers and a 2% increase on industrial customers.
- 6 (a) Please provide in Excel format with formula intact the financial impact of
7 moving from present depreciation methodologies to straight line methodology
8 proposed by this Application.
- 9 (b) Please provide a detailed schedule showing the rate impact of the change in
10 depreciation methodology and service life changes in Excel format with
11 formulae intact and showing all assumptions. The schedule should clearly show
12 the calculations for the impacts on each customer group.
- 13
14
- 15 A. (a) Refer to IC-NLH-20 Attachment 1 for the financial impact of moving from
16 present depreciation methodologies to straight line methodology proposed by
17 this Application, for every account.
- 18 (b) Refer to IC-NLH-20 Attachment 2 for a detailed schedule showing the rate
19 impact of the change in depreciation methodology and service life changes.
- 20
- 21 See also the response to IC-NLH-21.

Newfoundland and Labrador Hydro
Depreciation Expense Compared (\$000's)

Line No		Rural Prod &					Distribution										Accounting	Specifically Assigned
		Total Amount	Production Demand	Production Energy	Transmission Demand	Transmission Demand	Substations Demand	Primary Lines		Line Transformers		Secondary Lines		Services	Meters	Street Lighting		
								Demand	Customer	Demand	Customer	Demand	Customer	Customer	Customer	Customer		
Current Method																		
1	Island Interconnected	35,446	12,743	7,285	6,374	1,966	566	2,732	700	186	329	393	436	160	141	71	280	1,085
2	Newfoundland Power	24,517	11,636	6,292	5,837	0	0	0	0	0	0	0	0	0	0	0	0	751
3	Industrial Customers	1,146	234	464	114	0	0	0	0	0	0	0	0	0	0	0	0	334
4	Rural	9,783	872	528	423	1,966	566	2,732	700	186	329	393	436	160	141	71	280	0
5	Island Isolated	828	319	402	0	5	41	13	5	8	9	9	6	4	2	5	0	0
6	Labrador Isolated	2,571	884	1,253	0	37	193	55	10	18	30	33	17	14	7	19	0	0
7	L'Anse au Loup	442	143	0	0	1	154	47	8	14	27	30	6	6	2	3	0	0
8	Labrador Interconnected	3,944	1,102	0	1,197	206	554	151	88	156	95	101	65	71	25	132	0	0
		43,231	15,190	8,940	7,572	2,215	1,508	2,998	811	382	490	566	531	254	178	231	280	1,085
New Method																		
9	Island Interconnected	38,584	14,304	12,525	5,000	2,449	403	1,307	346	156	277	190	212	64	165	105	126	955
10	Newfoundland Power	29,101	13,062	10,819	4,579	0	0	0	0	0	0	0	0	0	0	0	0	641
11	Industrial Customers	1,464	263	798	89	0	0	0	0	0	0	0	0	0	0	0	0	314
12	Rural	8,019	979	909	332	2,449	403	1,307	346	156	277	190	212	64	165	105	126	0
13	Island Isolated	344	127	158	0	2	18	6	4	7	4	4	2	5	3	4	0	0
14	Labrador Isolated	1,336	444	636	0	24	101	28	9	16	15	16	7	19	10	12	0	0
15	L'Anse au Loup	209	58	0	0	1	69	21	7	12	11	13	3	8	3	3	0	0
16	Labrador Interconnected	1,796	321	0	469	153	291	77	63	112	47	50	28	84	32	69	0	0
		42,269	15,254	13,320	5,469	2,629	882	1,439	429	303	353	273	253	180	212	192	127	955
Difference																		
17	Island Interconnected	3,138	1,562	5,240	-1,375	482	-163	-1,425	-354	-29	-52	-203	-223	-96	23	34	-154	-130
18	Newfoundland Power	4,584	1,426	4,526	-1,259	0	0	0	0	0	0	0	0	0	0	0	0	-110
19	Industrial Customers	318	29	334	-25	0	0	0	0	0	0	0	0	0	0	0	0	-20
20	Rural	-1,764	107	380	-91	482	-163	-1,425	-354	-29	-52	-203	-223	-96	23	34	-154	0
21	Island Isolated	-484	-192	-244	0	-3	-24	-8	-1	-1	-5	-6	-4	2	1	-1	0	0
22	Labrador Isolated	-1,235	-441	-617	0	-13	-92	-27	-1	-2	-16	-17	-10	5	3	-7	0	0
23	L'Anse au Loup	-233	-84	0	0	-0	-85	-26	-1	-2	-16	-17	-4	2	1	-1	0	0
24	Labrador Interconnected	-2,148	-781	0	-728	-54	-263	-74	-25	-44	-48	-51	-37	13	6	-64	0	0
		-962	64	4,380	-2,103	414	-627	-1,559	-382	-79	-137	-293	-278	-74	34	-38	-154	-130

Newfoundland and Labrador Hydro
Depreciation Methods Compared
2010 Actual Cost of Service and Existing Assets 2011 Forecast Depreciation (\$000's)

Line No	2010 COS Current Method	2010 COS New Method	Difference	Increase/ Decrease(-) %
<u>Total System</u>				
1 Depreciation	43,231	42,269	(962)	-2.2%
2 Return/Other	351,348	351,786	438	0.1%
3 Total Cost of Service	394,579	394,055	(524)	-0.1%
4 Average NBV	1,368,990	1,369,470	480	0.0%
5 Other	131,262	131,263	1	0.0%
6 Total Rate Base	1,500,252	1,500,733	481	0.0%
7 Less Rural Assets	(220,924)	(223,003)	(2,079)	0.9%
8 Rate Base available for Equity Return	1,279,328	1,277,730	(1,598)	-0.1%
9 Return on Debt	87,352	87,380	28	0.0%
10 Return on Equity	6,522	6,927	405	6.2%
<u>Total Island Interconnected</u>				
11 Depreciation	35,446	38,584	3,138	8.9%
12 Return/Other	305,900	306,173	273	0.1%
13 Total Cost of Service	341,346	344,757	3,411	1.0%
14 Rate Base available for Equity Return	1,230,722	1,228,034	(2,688)	-0.2%
15 Rural Portion of Rate Base	167,854	168,945	1,091	0.6%
16 Total Rate Base	1,398,576	1,396,979	(1,597)	-0.1%
17 Return on Debt	81,432	81,339	(93)	-0.1%
18 Return on Equity	6,274	6,657	383	6.1%
<u>Newfoundland Power</u>				
19 Depreciation	24,517	29,101	4,584	18.7%
20 Return/Other	246,955	247,164	209	0.1%
21 Total Cost of Service	271,472	276,265	4,793	1.8%
22 Revenue Credit	(8)	(8)	-	0.0%
23 Deficit	35,632	32,473	(3,159)	-8.9%
24 Total Cost of Service	307,096	308,730	1,634	0.5%
25 Return on Debt	63,751	63,616	(135)	-0.2%
26 Return on Equity	5,583	5,927	344	6.2%
<u>Industrial Customers</u>				
27 Depreciation	1,146	1,464	318	27.7%
28 Return/Other	13,690	13,696	6	0.0%
29 Total Cost of Service	14,836	15,160	324	2.2%
30 Revenue Credit	9	9	(0)	-1.0%
31 Total Cost of Service	14,845	15,169	324	2.2%
32 Return on Debt	3,014	3,004	(10)	-0.3%
33 Return on Equity	264	280	16	6.0%
<u>Rural</u>				
34 Depreciation	9,783	8,019	(1,764)	-18.0%
35 Return/Other	45,255	45,313	58	0.1%
36 Total Cost of Service	55,038	53,332	(1,706)	-3.1%
37 Return on Debt	14,667	14,719	52	0.4%
38 Return on Equity	428	451	23	5.4%
<u>Labrador Interconnected</u>				
39 Depreciation	3,944	1,796	(2,148)	-54.5%
40 Return/Other	11,179	11,264	85	0.8%
41 Total Cost of Service	15,123	13,060	(2,063)	-13.6%
42 Revenue Credit	3,418	3,418	-	0.0%
43 Deficit	4,238	3,818	(420)	-9.9%
44 Total Cost of Service	22,779	20,296	(2,483)	-10.9%

Depreciation Methods Compared
2010 Actual Cost of Service and Existing Assets 2011 Forecast Depreciation (\$000's)

Line No	2010 COS Current Method	2010 COS New Method	Difference	Increase/ Decrease(-) %
45 Total Rate Base	48,606	49,696	1,090	2.2%
46 Return on Debt	2,830	2,894	64	2.3%
47 Return on Equity	248	270	22	8.9%
<u>Island Isolated</u>				
48 Depreciation	828	344	(484)	-58.5%
49 Return/Other	7,377	7,392	14	0.2%
50 Total Cost of Service	8,206	7,735	(470)	-5.7%
51 Total Rate Base	8,972	9,037	65	0.7%
52 Return on Debt	512	526	14	2.8%
53 Return on Equity	-	-	-	0.0%
<u>Labrador Isolated</u>				
54 Depreciation	2,571	1,336	(1,235)	-48.0%
55 Return/Other	23,294	23,331	36	0.2%
56 Total Cost of Service	25,865	24,667	(1,198)	-4.6%
57 Total Rate Base	37,961	38,586	625	1.6%
58 Return on Debt	2,210	2,247	36	1.6%
59 Return on Equity	-	-	-	0.0%
<u>L'Anse au Loup</u>				
60 Depreciation	442	209	(233)	-52.7%
61 Return/Other	3,620	3,627	7	0.2%
62 Total Cost of Service	4,062	3,836	(226)	-5.6%
63 Total Rate Base	6,317	6,434	117	1.9%
64 Return on Debt	368	375	7	1.9%
65 Return on Equity	-	-	-	0.0%
<u>Rural Deficit</u>				
66 Island Interconnected	14,893	13,208	(1,685)	-11.3%
67 Island Isolated	6,803	6,333	(470)	-6.9%
68 Labrador Isolated	19,630	18,432	(1,198)	-6.1%
69 L'Anse au Loup	1,962	1,736	(226)	-11.5%
70 Rural Deficit	43,288	39,708	(3,580)	-8.3%
71 Less Revenue credits	(3,418)	(3,418)	(0)	0.0%
72 Net Rural Deficit	39,870	36,290	(3,580)	-9.0%