1 Q. Depreciation Study Results

Exhibit I Schedule I, pg. 111-4&5 provides details of the book depreciation reserve as at December 31, 2009. The total book depreciation reserve amount is \$529,577,511. To assess the adequacy of Newfoundland and Labrador Hydro's ("Hydro") book accumulated depreciation reserve amount, Gannett Fleming Inc., as part of the depreciation study submitted with the Application (the "Depreciation Study"), calculated the accrued depreciation amount for each asset category as at December 31, 2009. Please provide the total of the calculated accrued depreciation amounts from the information provided in Exhibit I, Part V, column 3 and provide the difference between that total and the total book accumulated depreciation reserve amount of \$529,577,511. Please confirm that this difference corresponds to the Accumulated Depreciation Variance referred to in Hydro's depreciation study submitted to the Board on December 22, 2005, which showed a total Accumulated Depreciation Variance of \$174,236,975.79.

Α.

The total of the calculated accrued depreciation amounts from the information provided in Exhibit 1, Part V, column 3 is reproduced in column 6 of the attached schedule.

Column 7 of the attached schedule shows a total Accumulated Depreciation Variance of \$107,497,627.00. This difference corresponds to the Accumulated Depreciation Variance referred to in Hydro's depreciation study submitted to the Board on December 22, 2005, which showed a total Accumulated Depreciation Variance of \$174,236,975.79. The change in the amount of the variance between 2005 and 2009 relates to a change in the depreciation methodology from Equal Life Group in 2005 to Average Service Life in 2009, as well as a change in the service lives of some assets and depreciation expense recorded between 2005 and 2009.

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	DEPRECIABLE WORK (1)	SURVIVOR CURVE (2)	ORIGINAL COST AT DECEMBER 31, 2009 (4)	BOOK DEPRECIATION RESERVE (5)	CALCULATED ACCRUED FROM PART V (6)	ACCUMULATED DEPRECIATION VARIANCE (7) = (6) - (5)
101						
A01	AIRCRAFT LANDING STRIP	22-S6	394,805.08	217,451	289,242	71,791
A04	AUXILIARY POWER SYSTEMS	30-R4	3,283,352.56	1,647,378	1,841,261	193,883
B01	BATTERY & POWER SYSTEMS	15-S3	8,289,725.71	3,637,112	3,734,965	97,853
B02	BOILER SYSTEM	35-R3	1,946,158.89	395,063	170,742	(224,321)
B03	BOOMS - TIMBERS	40-R1	263,995.47	236,552	122,841	(113,711)
B04	BRIDGES	60-R4	4,257,163.40	3,049,973	1,434,116	(1,615,857)
B05	BUILDINGS - OTHER	50-R0.5	48,812,722.58	23,386,172	9,502,290	(13,883,882)
B06	BUILDINGS - METAL	55-R3	19,943,772.82	14,357,796	7,629,402	(6,728,394)
B07	BUS DUCT GENERATOR	35-R3	825,804.04	425,560	377,997	(47,563)
B08	BUSWORK & HARDWARE	40-R3	5,539,614.59	2,748,318	2,819,327	71,009
C01	CABLES - TELECONTROL	40-R2.5	1,605,996.01	1,172,691	301,494	(871,197)
C02	CABLE - SUBMARINE	45-R4	8,901,116.47	5,618,356	3,612,025	(2,006,331)
C03	CABLES - UNDER GROUND	60-S4	1,852,851.63	1,202,958	837,765	(365,193)
C04	CABLES - ABOVE GROUND	50-R3	9,336,561.23	5,199,675	4,226,148	(973,527)
C06	CAPICTORS	35-R4	1,004,935.12	140,385	444,685	304,300
C08	CHLORINATION SYSTEMS	40-R4				
C09	CIRCUIT BREAKERS	55-R3	16,714,614.21	6,625,080	6,301,114	(323,966)
C10	COMPRESSED AIR SYSTEMS	40-R3	4,662,228.89	2,395,576	1,650,315	(745,261)
C11	COMPUTERS	5-SQ	5,619,782.72	4,065,444	4,088,282	22,838
C13	CONDUCTOR	60-R3	62,857,533.60	16,902,895	23,728,853	6,825,958
C14	CONDUCTOR - DISTRIBUTION	55-R3	21,401,471.20	9,384,068	5,297,434	(4,086,634)
C15	CONTROL, METER / RELAYING	30-R1	18,718,502.07	8,317,645	7,192,654	(1,124,991)
C16	COOLING SYSTEMS	40-R1.5	3,794,719.13	2,097,408	903,593	(1,193,815)

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		SURVIVOR		BOOK DEPRECIATION	CALCULATED ACCRUED	ACCUMULATED DEPRECIATION
	DEPRECIABLE WORK	CURVE	DECEMBER 31, 2009	RESERVE	FROM PART V	VARIANCE
C17	(1) COUNTERPOISE	(2)	(4)	(5)	(6)	(7) = (6) - (5)
C17		50-R3	3,558,954.86	991,815	1,296,052	304,237
C18	CRANES	70-R3	6,369,327.68	462,789	1,889,113	1,426,324
D01	DAMS & DYKES	100-R4	351,201,750.94	1,781,039	91,894,437	90,113,398
D02	DIESEL SYSTEMS & ENGINES	25-S0.5	21,346,252.47	11,394,298	6,982,879	(4,411,419)
D03	DISCONNECT SWITCHES	45-S2.5	9,114,371.51	4,056,214	3,933,013	(123,201)
D04	DYKES AND LINERS	42-L1	1,887,138.00	1,592,485	585,038	(1,007,447)
E01	ELEVATORS	40-S5	89,800.00	89,800	79,922	(9,878)
E02	EMS EQUIPMENT	25-R2.5	13,446,886.26	13,184,644	7,811,304	(5,373,340)
E03	ENVIRONMENTAL EQUIPMENT	30-S4	10,395.75	2,630	1,100	(1,530)
F01	FALL ARREST EQUIPMENT	10-L2	1,318,153.90	103,513	252,425	148,912
F02	FENCING	47-R3	4,825,159.64	2,883,646	1,605,275	(1,278,371)
F03	FIRE FIGHTING EQUIPMENT	45-R4	9,222,528.23	4,799,183	2,993,956	(1,805,227)
F04	FOOTINGS & FOUNDATIONS	50-R4	16,144,467.22	6,483,604	7,168,265	684,661
F05	FREQ CONVERSION	40-S4	869,211.95	36,565	22,440	(14,125)
F06	FUEL SYSTEMS	50-R1.5	14,784,748.08	7,307,166	2,315,681	(4,991,485)
G01	GAS TURBINE SYSTEMS	35-R4	30,993,022.69	25,552,246	18,691,073	(6,861,173)
G02	GATES	80-R4	15,312,218.70	1,743,278	5,271,934	3,528,656
G03	GENERATORS	60-S4	64,312,110.88	24,318,003	25,436,315	1,118,312
G04	GENERATOR - WINDINGS	40-S3	6,766,230.94	6,392,535	4,357,483	(2,035,052)
G05	GLYCOL SYSTEMS	40-S3	620,703.54	495,234	319,507	(175,727)
G06	GOVENORS	45-S4	7,685,239.39	394,699	2,735,895	2,341,196

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	DEPRECIABLE WORK	SURVIVOR CURVE	ORIGINAL COST AT DECEMBER 31, 2009	BOOK DEPRECIATION RESERVE	CALCULATED ACCRUED FROM PART V	ACCUMULATED DEPRECIATION VARIANCE
	(1)	(2)	(4)	(5)	(6)	(7) = (6) - (5)
G07	GROUND WIRE SYSTEM	55-R4	7,302,893.45	2,167,951	2,366,916	198,965
H01	HRDWIRED SUPRVSRY EQUIP	17-L3				
101	INFORMATION DELIVERY SYS - ECC	20-S4				
102	INSTRUMENTATION	26-L0.5	4,018,333.05	1,212,524	585,645	(626,879)
103	INSULATORS	30-L3	36,376,195.89	10,491,724	12,919,019	2,427,295
104	INTAKE STRUCTURES	100-R4	18,844,444.76	100,300	4,669,270	4,568,970
105	INVERTERS	25-S3	466,597.96	312,787	185,501	(127,286)
L03	LAND IMPROVMENTS	50-R3	12,638,775.53	7,147,132	5,564,742	(1,582,390)
L04	LIGHTING SYSTEMS	45-R4	550,249.54	390,331	355,328	(35,003)
L05	LIGHTNING ARRESTORS	58-R3	5,619,879.81	1,764,959	951,650	(813,309)
L06	LINE COUPLING EQUIPMENT	23-R5	12,725.56	12,726	12,047	(679)
M01	MAIN BREAKERS	42-R0.5	551,508.09	210,996	79,111	(131,885)
M03	METALCLAD SWITCHGEAR CUB/EQU 4kv/600	30-R4	1,849,870.49	1,442,814	1,399,435	(43,379)
M04	METER TEST SWITCHES	35-R5	48,910.55	31,786	26,483	(5,303)
M05	METERING TANKS	37-R3	208,167.19	108,522	110,757	2,235
M06	METERS - DIGITAL	20-L3	3,430,944.36	745,450	936,837	191,387
M07	METERS - ANALOGUE	25-L3	488,014.47	370,459	330,626	(39,833)
M08	METERS - OTHER	22-L3	194,391.51	72,936	87,717	14,781
M10	MISC. UNITS OF PROP	20-R1	2,035,856.23	1,205,671	1,299,263	93,592
M11	MOBILE - A.T.V.'S & SNOWMOBILES	7-SQ	1,369,874.43	550,216	450,205	(100,011)
M12	MOBILE - AIR COMPRESSOR,ATTACHMENT &BOAT	20-R2	410,663.64	325,669	225,665	(100,004)

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	DEPRECIABLE WORK	SURVIVOR CURVE	ORIGINAL COST AT DECEMBER 31, 2009	BOOK DEPRECIATION RESERVE	CALCULATED ACCRUED FROM PART V	ACCUMULATED DEPRECIATION VARIANCE
	(1)	(2)	(4)	(5)	(6)	(7) = (6) - (5)
M13	MOBILE - ARGO'S	7-SQ	30,211.03	28,589	24,419	(4,170)
M14	MOBILE - FLEX/FORK/LOAD/GRADE/MUSK/TRAILER	20-R2	8,248,424.67	5,220,195	2,850,052	(2,370,143)
M16	MULTIPLEX EQUIPMENT	18-R2.5	2,889,207.03	2,096,283	1,088,147	(1,008,136)
001	OFFICE EQUIPMENT	20-SQ	1,195,347.67	877,289	466,775	(410,514)
002	OFFICE FURNITURE	20-SQ	4,269,330.12	3,839,669	3,456,220	(383,449)
P01	P.C.B. STORAGE CONTAINER	30-R4	42,479.84	38,586	25,076	(13,510)
P02	PABX - PRIV AUTO BRANCH EXCH	20-R4	819,535.49	427,128	223,163	(203,965)
P03	PENSTOCK	70-R4	56,215,065.27	8,625,533	21,045,301	12,419,768
P04	POLE CRIBS & POLE HARDWARE	50-L2	65,911,264.63	22,355,247	12,294,159	(10,061,088)
P05	POLE STRUCTURES - WOOD	53-R4	104,505,267.12	25,429,257	36,738,040	11,308,783
P06	POLES - CONCRETE	25-R4	215,304.78	160,922	163,288	2,366
P07	POLES - WOOD	37-R3	40,210,866.37	16,899,802	10,959,009	(5,940,793)
P08	POWER LINE CARRIER	20-R4	5,006,762.55	3,748,600	2,203,978	(1,544,622)
P09	POWER SYSTEMS	18-R3	590,182.62	116,245	193,518	77,273
P10	POWERHOUSE	75-R3	93,181,235.98	13,007,098	27,796,614	14,789,516
P11	PRINTERS	5-SQ	1,010,719.71	572,117	537,553	(34,564)
P12	PROTECTIVE CONTROL & RELAY PANELS	30-R3	4,458,227.98	909,807	1,318,988	409,181
R01	RADIO TOWERS (WOOD OR STEEL)	35-R3	9,331,364.82	6,073,961	2,585,424	(3,488,537)
R02	RADIOS - FIXED MICROWAVE EQUIPMENT	22-R4	5,431,981.92	3,846,942	1,818,655	(2,028,287)
R03	RADIOS - FIXED UHF EQUIPMENT	15-L1.5	114,223.78	18,190	11,681	(6,509)
R04	RADIOS - FIXED VHF EQUIPMENT	19-R3	330,529.66	275,437	180,591	(94,846)
R05	RADIOS - MOBILE VHF BASE STATION	15-R3	4,027,815.31	971,834	707,722	(264,112)
R06	RAMPS - YARD STORAGE	25-R3	1,236,643.69	525,696	398,326	(127,370)

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Newfoundland and Labrador Hydro

Schedule 1: Estimated Survivor Curves, Original Cost and Annual Accruals

Related to Estimated Original Cost at December 31, 2009

Excludes Holyrood Assets not required for Synchronous Condenser Operations Average Service Life Used

		•				
		SURVIVOR		BOOK DEPRECIATION	CALCULATED ACCRUED	ACCUMULATED DEPRECIATION
	DEPRECIABLE WORK	CURVE	DECEMBER 31, 2009	RESERVE	FROM PART V	VARIANCE
	(1)	(2)	(4)	(5)	(6)	(7) = (6) - (5)
R07	REACTORS & RESISTORS	40-S4	860,433.73	69,734	295,052	225,318
R08	RECLOSERS	40-R4	3,465,827.78	1,683,894	1,293,588	(390,306)
R09	REGULATORS	35-R3	3,777,179.98	1,618,625	1,293,451	(325,174)
R10	RESERVOIR POWER	30-R3				
R11	REVENUE METERING	35-R3	761,706.46	202,490	337,695	135,205
R12	RIGHT - OF - WAYS	55-R4	18,020,542.37	5,989,582	8,016,508	2,026,926
R13	ROADS	50-R4	80,846,786.54	3,979,048	37,610,908	33,631,860
R14	ROUTERS & LAN	5-SQ	6,097,245.86	4,797,798	5,080,419	282,621
R15	RUNNER	33-R5	11,669,901.86	3,427,671	6,246,520	2,818,849
S01	SCADA EQUIPMENT	20-R3	3,427,679.44	1,934,879	1,037,362	(897,517)
S02	SECTIONALIZERS	25-R3	152,708.72	93,118	93,561	443
S03	SERVERS	5-SQ	5,081,124.97	3,626,053	3,739,875	113,822
S04	SEWAGE DISPOSAL SYSTEM	45-R2.5	2,745,341.78	1,708,195	793,538	(914,657)
S05	SOFTWARE	7-SQ	24,077,181.78	19,989,114	18,383,962	(1,605,152)
S06	SPILLWAY STRUCTURES	100-R4	26,949,270.20	252,588	6,931,924	6,679,336
S07	STACKS	40-R4	2,126,667.19	1,368,383	734,917	(633,466)
S08	STATIC EXCITATION SYSTEM	32-R4	8,295,339.31	4,208,323	3,980,185	(228,138)
S09	STATIC EXCITATION - XFORMERS	32-R4	873,229.34	727,374	694,828	(32,546)
S10	STATION SERVICE	40-R4	3,399,370.83	800,120	1,654,025	853,905
S11	STOP LOGS	65-R4	2,780,641.69	275,711	933,680	657,969
S12	STORAGE PALLETS & RACKINGS	30-R3	21,648.13	21,648	15,388	(6,260)
S13	STORM & YARD DRAINAGE	45-R4	1,194,341.65	982,815	631,143	(351,672)
S14	STREET LIGHTS	20-R2	2,546,773.85	637,293	777,077	139,784

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Newfoundland and Labrador Hydro

Schedule 1: Estimated Survivor Curves, Original Cost and Annual Accruals Related to Estimated Original Cost at December 31, 2009

Excludes Holyrood Assets not required for Synchronous Condenser Operations

Average Service Life Used

		CLIDVIVOR	ORIGINAL COST	BOOK	CALCULATED	ACCUMULATED
	DEPRECIABLE WORK	SURVIVOR CURVE	AT DECEMBER 31, 2009	DEPRECIATION RESERVE	ACCRUED FROM PART V	DEPRECIATION VARIANCE
	(1)	(2)	(4)	(5)	(6)	(7) = (6) - (5)
S15	STRUCTURAL SUPPORTS (WOOD OR STEEL)	45-R4	8,609,349.55	3,876,232	4,203,043	326,811
S16	STUDIES	5-R0.5	3,358,184.45	1,444,249	906,999	(537,250)
S17	SUMP SYSTEMS	35-R4	238,638.74	84,300	78,034	(6,266)
S18	SURGE SYSTEMS	45-R3	3,348,520.61	1,702,117	2,060,401	358,284
S19	STATION SWITCHING	45-L1.5	10,667,170.66	3,862,529	2,664,411	(1,198,118)
S20	SWITCHING SYSTEMS - L.V.	60-R5	1,805,689.30	116,296	785,865	669,569
T01	TELECONTROL SYSTEM	27-L1	10,919,784.86	8,230,476	3,191,178	(5,039,298)
T02	TEST EQUIPMENT	20-SQ	2,128,465.42	1,876,474	1,605,467	(271,007)
T03	TOOLS & EQUIPMENT	20-SQ	11,281,655.65	7,613,134	4,960,482	(2,652,652)
T04	TOWERS	65-R3	71,559,609.79	13,980,497	21,233,065	7,252,568
T05	TRANSFORMERS	55-R3	66,582,133.35	25,739,897	23,956,755	(1,783,142)
T06	TRANSFORMERS - PADMOUNT	40-R3	2,379,222.82	807,836	604,624	(203,212)
T07	TRANSFORMERS - POLE MOUNTED	30-R2	16,385,241.31	4,804,173	4,011,500	(792,673)
T09	TURBINES	50-R3	42,852,398.82	3,835,012	16,678,653	12,843,641
V01	VACUUM CLEANING SYSTEM	60-R4	72,451.00	65,210	37,884	(27,326)
V02	VALVES - PENSTOCK	65-R3	6,882,405.29	1,183,261	1,765,082	581,821
V03	VEHICLES - 1 TON	8-L4				
V04	VEHICLES - 3/4 TON AND UNDER	7-L3	3,157,849.72	1,627,287	1,264,247	(363,040)
V05	VEHICLES - BOOMS/BODIES/CRANES/CAB &CHASSIS	15-L1.5	10,935,865.73	7,626,020	2,945,424	(4,680,596)
V06	VEHICLES - CARS, STATION WAGONS & VAN	6-L3	2,088,514.89	1,153,743	895,584	(258,159)
V07	VEHICLES - DUMP TRUCKS	20-L3	20,135.00	18,415	5,186	(13,229)
W01	WATER REGULATING STRUCTURES	55-S4	21,392,991.48	2,437,259	5,844,905	3,407,646
W02	WATER SYSTEMS	30-L4	2,833,440.10	1,121,179	1,248,059	126,880
W03	WATER SYSTEMS - FEED	45-L2	4,197,894.00	3,857,403	2,263,988	(1,593,415)
W04	WATER TREATMENT	34-L4	2,793,278.18	2,101,734	1,496,128	(605,606)
	TOTAL DEPRECIABLE PLANT		1,851,258,222.78	529,577,511.00	637,075,138.00	107,497,627.00