

SECTION F

NEWFOUNDLAND & LABRADOR HYDRO**2003 CAPITAL EXPENDITURES - OVERVIEW**

FOR THE MONTH ENDING FEBRUARY 28, 2003
(\$,000)

	Expenditures Prior To 2003	PUB Approved Budget 2003	2003 Expenditures To February 28	Expected Remaining Expenditures 2003	Expected Total Expenditures 2003	Var. from Approved to Expected Expenditures
GENERATION	219	5,704	174	5,530	5,704	0
TRANSMISSION & RURAL OPERATIONS	1,055	10,276	413	9,863	10,276	0
GENERAL PROPERTIES	1,925	17,869	358	17,511	17,869	0
ALLOWANCE FOR UNFORESEEN EVENTS	0	1,000	0	1,000	1,000	0
PROJECTS APPROVED BY PUB	73	321	8	313	321	0
NEW PROJECTS LESS THAN \$50,000 APPROVED BY HYDRO	12	82	0	82	82	0
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TOTAL CAPITAL BUDGET	<u>3,284</u>	<u>35,252</u>	<u>953</u>	<u>34,299</u>	<u>35,252</u>	<u>0</u>
Approved P.U. 29 (2002-2003)		33,070				
Approved P.U. 3 (2003)		281				
Carryover Projects 2002 to 2003		1,852				
New Projects Under \$ 50,000 Approved by Hydro		<u>49</u>				
TOTAL APPROVED CAPITAL BUDGET		<u>35,252</u>				

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GENERATION							
HYDRO PLANTS							
Construction Projects	64	773	7	766	773	0	4
Property Additions	0	327	0	327	327	0	4
Tools & Equipment	0	117	0	117	117	0	4
THERMAL PLANT							
Construction Projects	155	2,423	108	2,315	2,423	0	5
Property Additions	0	1,991	59	1,932	1,991	0	5
Tools & Equipment	0	73	0	73	73	0	5
TOTAL GENERATION	219	5,704	174	5,530	5,704	0	
TRANSMISSION & RURAL OPERATIONS							
TRANSMISSION	1,055	782	34	748	782	0	6
SYSTEM PERFORMANCE & PROTECTION	0	546	0	546	546	0	6
TERMINALS	0	581	0	581	581	0	6
DISTRIBUTION	0	6,685	375	6,310	6,685	0	7
GENERATION	0	681	0	681	681	0	7
GENERAL							
Metering	0	102	4	98	102	0	7
Properties	0	49	0	49	49	0	7
Tools & Equipment	0	850	0	850	850	0	7
TOTAL TRANSMISSION & RURAL OPERATIONS	1,055	10,276	413	9,863	10,276	0	

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GENERAL PROPERTIES							
INFORMATION SYSTEMS & TELECOMMUNICATIONS	416	15,536	129	15,407	15,536	0	8
ADMINISTRATIVE	1,509	2,333	229	2,104	2,333	0	10
TOTAL GENERAL PROPERTIES	1,925	17,869	358	17,511	17,869	0	
ALLOWANCE FOR UNFORESEEN EVENTS	0	1,000	0	1,000	1,000	0	11
PROJECTS APPROVED BY PUB	73	321	8	313	321	0	11
PROJECTS APPROVED FOR LESS THAN \$50,000	12	82	0	82	82	0	11
TOTAL CAPITAL BUDGET	3,284	35,252	953	34,299	35,252	0	

PROJECT DESCRIPTION	PUB	2003	Expected	Expected	Var. from	Variance
	Expenditures Approved	Expenditures	Remaining	Total	Approved to	
	Prior To	Budget	To	Expenditures	Expected	Explanation
	2003	2003	February 28	2003	2003	Reference

HYDRO PLANTS**CONSTRUCTION PROJECTS**

Install Fault Recorder - Upper Salmon Generating Station	64	63	3	60	63	0
Upgrade Controls Spherical Valve No. 1 - Bay d'Espoir		223	4	219	223	0
Replace Vibration/Data System - Bay d'Espoir		153	0	153	153	0
Replacement of Draft Tube Stoplogs at Paradise River		156	0	156	156	0
Replace Fuel Storage Tanks at Burnt Spillway - Bay D' Espoir		97	0	97	97	0
Install Early Warning System - Victoria Dam		40	0	40	40	0
Frazil Ice Monitoring - Granite Canal		21	0	21	21	0
Replace Gate Hoist No. 2 - Ebbegunbaeg Control Structure		7	0	7	7	0
Replace Unit No. 7 Exciter - Bay d'Espoir		13	0	13	13	0
TOTAL CONSTRUCTION PROJECTS	64	773	7	766	773	0

PROPERTY ADDITIONS

Replace Site fencing - Bay d'Espoir		250	0	250	250	0
Purchase and Install Security Locks at Hydro Plants		77	0	77	77	0
TOTAL PROPERTY ADDITIONS	0	327	0	327	327	0

TOOLS & EQUIPMENT

Replace Loader/Backhoe - Bay d'Espoir		3	0	3	3	0
Purchase & Replace Tools & Equipment Less than \$50,000	0	114	0	114	114	0
TOTAL TOOLS & EQUIPMENT	0	117	0	117	117	0

PROJECT DESCRIPTION	Expenditures Prior To 2003	PUB Approved Budget 2003	2003 Expenditures To February 28	Expected Remaining Expenditures 2003	Expected Total Expenditures 2003	Var. from Approved to Expected Expenditures	Variance Explanation Reference
<u>THERMAL PLANT</u>							
<u>CONSTRUCTION PROJECTS</u>							
Purchase and Install Continuous Emission Monitoring	132	669	83	586	669	0	
Replace Turbine Electrohydraulic Control System - Unit No. 1 - Holyrood	23	965	25	940	965	0	
Purchase and Installation of a Neutralization Pit - Holyrood		343	0	343	343	0	
Purchase Mobile Ambient Monitoring System - Holyrood		184	0	184	184	0	
Flue Gas Particulate Removal Study - Holyrood		150	0	150	150	0	
Purch/Inst Partial Discharge Analysis Equip - Unit No. 1 - Holyrood		112	0	112	112	0	
TOTAL CONSTRUCTION PROJECTS	155	2,423	108	2,315	2,423	0	
<u>PROPERTY ADDITIONS</u>							
Upgrade Civil Structures - Holyrood		1,991	59	1,932	1,991	0	
TOTAL PROPERTY ADDITIONS	0	1,991	59	1,932	1,991	0	
<u>TOOLS & EQUIPMENT</u>							
Purchase & Replace Tools & Equipment Less than \$50,000	0	73	0	73	73	0	
TOTAL TOOLS & EQUIPMENT	0	73	0	73	73	0	
TOTAL GENERATION	219	5,704	174	5,530	5,704	0	

PROJECT DESCRIPTION	PUB	2003	Expected	Expected	Var. from	Variance
	Expenditures Approved	Expenditures	Remaining	Total	Approved to	
	Prior To	Budget	To	Expenditures	Expected	Explanation
	2003	2003	February 28	2003	Expenditures	Reference
TRANSMISSION						
Upgrade TL227 - (69 kV Berry Hill - Daniels Harbour)	654	179	31	148	179	0
Replacement of Insulators TL228 (230kV Buchans - Massey Drive)	401	49	3	46	49	0
Uprate of TL203- (230kv Sunnyside - Western Avalon)		207	0	207	207	0
Replace Insulators TL209 - (230kV Stephenville - Bottom Brook)		236	0	236	236	0
Upgrade TL214 - (138kV Bottom Brook - Doyles)		111	0	111	111	0
TOTAL TRANSMISSION	1,055	782	34	748	782	0
SYSTEM PERFORMANCE & PROTECTION						
Upgrade Circuit Switcher South Brook Terminal Station		355	0	355	355	0
Purchase and Install 138kV Breaker Fail Protection		82	0	82	82	0
Upgrade Breaker Controls - Sunnyside Terminal Station		33	0	33	33	0
Replace Digital Fault Recorder - Holyrood Terminal Station		76	0	76	76	0
TOTAL SYSTEM PERFORMANCE & PROTECTION	0	546	0	546	546	0
TERMINALS						
Replace Fence - Holyrood Terminal Station		32	0	32	32	0
Upgrade Access Road - Farewell Head Terminal Station		22	0	22	22	0
Replace 125v Battery Banks		83	0	83	83	0
Upgrade Station Services - Long Harbour Terminal Station		83	0	83	83	0
Install Motor Drive Mechanisms on Disconnect Switches - Sunnyside T.S.		217	0	217	217	0
Replace Surge Arrestors		69	0	69	69	0
Replace Instrument Transformers		75	0	75	75	0
TOTAL TERMINALS	0	581	0	581	581	0

PROJECT DESCRIPTION	PUB	2003	Expected	Expected	Var. from	Variance
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	Prior To	Budget	To	Expenditures	Expenditures	Expected
	2003	2003	February 28	2003	2003	Expenditures
						Reference
<u>DISTRIBUTION</u>						
Service Extensions		1,448	216	1,232	1,448	0
Distribution Upgrades		1,476	154	1,322	1,476	0
Upgrade Line - Little Bay Distribution System		317	0	317	317	0
Upgrade Line - St. Anthony Distribution Systems		557	0	557	557	0
Insulator Replacements		795	0	795	795	0
Pole Replacements		852	5	847	852	0
Protection Upgrades - Isolated Systems		720	0	720	720	0
Replace Corroded Transformers		172	0	172	172	0
Replace Voltage Regulators		176	0	176	176	0
Protection Upgrade North Diesel Plant - Goose Bay		172	0	172	172	0
TOTAL DISTRIBUTION	0	6,685	375	6,310	6,685	0
<u>GENERATION</u>						
Install Nox Emission Monitor - McCallum		103	0	103	103	0
Install Fire Alarm Systems		98	0	98	98	0
Upgrade Service Cables		60	0	60	60	0
Increase Generation - Mary's Harbour		212	0	212	212	0
Fuel Storage Upgrades		208	0	208	208	0
TOTAL GENERATION	0	681	0	681	681	0
<u>GENERAL</u>						
<u>METERING</u>						
Purchase Meters & Equipment - Rural System		96	2	94	96	0
Purchase Metering Spares - Bulk Electrical System		6	2	4	6	0
TOTAL METERING	0	102	4	98	102	0
<u>PROPERTIES</u>						
Construct Storage Shed - Harbour Breton		19	0	19	19	0
Purchase Land - Mud Lake		30	0	30	30	0
TOTAL PROPERTIES	0	49	0	49	49	0
<u>TOOLS & EQUIPMENT</u>						
Purchase & Replace Tools & Equipment Less than \$ 50,000	0	306	0	306	306	0
Replace Light Duty Mobile Equipment Less than \$50,000		544	0	544	544	0
TOTAL TOOLS & EQUIPMENT	0	850	0	850	850	0
TOTAL GENERAL	0	1,001	0	0	0	0
TOTAL TRANSMISSION & RURAL OPERATIONS	1,055	10,276	409	8,866	9,275	0

PROJECT DESCRIPTION	Expenditures Prior To 2003	PUB Approved Budget 2003	2003 Expenditures To February 28	Expected Remaining Expenditures 2003	Expected Total Expenditures 2003	Var. from Approved to Expected Expenditures	Variance Explanation Reference
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INFORMATION SYSTEMS & TELECOMMUNICATIONS**SOFTWARE APPLICATIONS****INFRASTRUCTURE REPLACEMENT**

Acquire Document Management & Imaging System		104	32	72	104	0	
Replace Energy Management System - Energy Control Centre		1,214	0	1,214	1,214	0	

NEW INFRASTRUCTURE

Purchase Additional Corporate Applications	43	84	1	83	84	0	
Security Program Centralized Log Monitoring & Analysis System		57	0	57	57	0	

TOTAL SOFTWARE APPLICATIONS

43	1,459	33	1,426	1,459	0	
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COMPUTER OPERATIONS**INFRASTRUCTURE REPLACEMENT**

Enterprise Storage Management Infrastructure		2,049	0	2,049	2,049	0	
End User & Server Evergreen Program		893	2	891	893	0	

NEW INFRASTRUCTURE

Peripheral Infrastructure Replacement		99	0	99	99	0	
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TOTAL COMPUTER OPERATIONS

0	3,041	2	3,039	3,041	0	
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INFORMATION SYSTEMS & TELECOMMUNICATIONS**NETWORK SERVICES****INFRASTRUCTURE REPLACEMENT**

Install New Microwave System Interconnection Between East/West Coast	208	8,734	68	8,666	8,734	0
Replace UHF Radio Link - Abitibi - Stephenville		89	1	88	89	0
Replace Powerline Carrier Equipment West Coast Transmission System		1,009	0	1,009	1,009	0
Replace Voice, Data & Teleprotection Equip - Upper Salmon Intake		88	0	88	88	0
Upgrade Site Grounding at Telecontrol Site - Phase 4		48	0	48	48	0
Replace Battery System - Multiple Sites		224	0	224	224	0
Replace Remote Terminal Unit for Hydro - Phase 4		285	1	284	285	0

NETWORK INFRASTRUCTURE

Purchase Equipment for Physical Facilities Upgrade		71	0	71	71	0
Deer Lake Building Improvements		103	0	103	103	0
Upgrade Local Area Networks (LANs) - Multiple Sites		47	2	45	47	0

UPGRADE OF TECHNOLOGY

Provide Global Positioning System Time Synchronization - Phase 2	165	46	21	25	46	0
Replacement of Operational Data & Voice Network - Phase I		292	1	291	292	0

TOTAL NETWORK SERVICES**TOTAL INFORMATION SYSTEMS & TELECOMMUNICATIONS**

373	11,036	94	10,942	11,036	0
416	15,536	129	15,407	15,536	0

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	2003	2003	February 28	2003	2003	Expenditures	Reference	
<u>ADMINISTRATIVE</u>								
<u>VEHICLES</u>								
Replace Vehicles - 2002	1,509	498	204	294	498		0	
Replace Vehicles - Hydro System	0	1,584	25	1,559	1,584		0	
<u>ADMINISTRATION</u>								
Replace Engineering Wide Format Printing System		62	0	62	62		0	
Automatic Meter Reading (AMR) - Pilot Project		52	0	52	52		0	
Purchase & Replace Admin Office Equip less than \$50,000	0	137	0	137	137		0	
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TOTAL ADMINISTRATIVE	1,509	2,333	229	2,104	2,333		0	
<hr/>								
TOTAL GENERAL PROPERTIES	1,925	17,869	358	17,511	17,869		0	
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<u>ALLOWANCE FOR UNFORESEEN EVENTS</u>							
Allowance for Unforeseen Events		1,000	0	1,000	1,000	0	
TOTAL ALLOWANCE FOR UNFORESEEN EVENTS	0	1,000	0	1,000	1,000	0	
<u>PROJECTS APPROVED BY PUB</u>							
<u>Carryover Project</u>							
Replace Diesel Unit #2006 with Unit #2052 - Cartwright	73	40	8	32	40	0	
<u>Project Approved in 2004</u>							
Replacement of Timber Crib Headwall at Grey River Fish Compensation Str		281	0	281	281	0	
TOTAL PROJECTS APPROVED BY PUB	73	321	8	313	321	0	
<u>NEW PROJECTS LESS THAN \$50,000 APPROVED BY HYDRO</u>							
<u>Carryover Project</u>							
Install Alternate 69kV Feed to Transformer SST-12 - Holyrood	12	33	0	33	33	0	
<u>Project Approved in 2004</u>							
Purchase Auxiliary Cooling Water Pump - Holyrood		49	0	49	49	0	
TOTAL PROJECTS LESS THAN \$50,000 APPROVED BY HYDR	12	82	0	82	82	0	