

January 7, 2013

Hydro Place. 500 Columbus Drive. P.O. Box 12400. St. John's. NL Canada A1B 4K7 t. 709.737.1400 f. 709.737.1800 www.nlh.nl.ca

Board of Commissioners of Public Utilities Prince Charles Building 120 Torbay Road, P.O. Box 21040 St. John's, NL A1A 5B2

ATTENTION: Ms. Cheryl Blundon

Director of Corporate Services & Board Secretary

Dear Ms. Blundon:

Re: Newfoundland and Labrador Hydro - 2013 Capital Budget Application Phase I and Phase II

Further to the Board's letter dated December 24, 2012, as per the Board's direction on this matter Hydro sought the consent of the Intervenors to the projects below and to the proposed manner of proceeding with them. Newfoundland Power indicated by email dated December 31, 2012 that it had no objection to the projects other than those it dealt with in its submission. The Consumer Advocate stated the same position by email dated today. The Board has a letter from the Industrial Customers, also dated today, on this matter.

Enclosed are the 2013 Capital Budget Application project proposals split into Phases I and II, as described below. The overall total has been reduced due to the removal of projects pertaining to Holyrood as well as the cancellation of Rewind Generator Units 1 and 2. This was a multi-year project approved as part of Board Order No. P. U. 5 (2012) for \$11.9 million of which \$1,107,600 was to be spent in 2013. The amounts removed from the 2013 Capital Budget Application are as follows:

Rewind Generator Units 1 and 2	\$1,107,600
Upgrade Governor Controls on Units 1 and 2	1,455,500
Upgrade Vibration Monitoring Equipment	519,900
Install Cold Reheat Condensate Drains Unit 3	50,000
Install Fire Protection Upgrades	267,200
Total	\$ <u>3,400,200</u>

Phase I contains projects that were not commented on by the Intervenors. Phase II contains projects about which the Intervenors had stated concerns including all of the Holyrood projects as well as any projects over \$50,000 with a priority rating of medium.

Please note that where there is a category shown in Phase II without a corresponding dollar value, this indicates that projects in that category are all found in Phase I.

We trust that you will find the enclosed to be in order and satisfactory. Should you have any questions or comments about any of the enclosed, please contact the undersigned.

Yours truly,

NEWFOUNDLAND AND LABRADOR HYDRO

Geoffrey P. Young,

Senior Legal Counsel

GPY/jc

Gerard Hayes – Newfoundland Power

Paul Coxworthy – Stewart McKelvey Stirling Scales

Thomas Johnson - Consumer Advocate Dean Porter - Poole Althouse

	Expended to 2012		Future 2013 Years			
		(\$000)				
GENERATION	2,425.3	10,503.2	0.0	12,928.5		
TRANSMISSION AND RURAL OPERATIONS	15,728.4	27,470.3	18,166.8	61,365.5		
GENERAL PROPERTIES	1,898.8	7,267.2	1,975.1	11,141.1		
ALLOWANCE FOR UNFORESEEN EVENTS	0.0	1,000.0	0.0	1,000.0		
TOTAL CAPITAL BUDGET	20,052.5	46,240.7	20,141.9	86,435.1		

	Expended		Future		
	to 2012	2013	Years	Total	
	(\$000)				
<u>GENERATION</u>					
Hydraulic Plant	2,425.3	10,409.9	0.0	12,835.2	
Thermal Plant	0.0	0.0	0.0	0.0	
Gas Turbines	0.0	0.0	0.0	0.0	
Tools and Equipment	0.0	93.3	0.0	93.3	
TOTAL GENERATION	2,425.3	10,503.2	0.0	12,928.5	
TRANSMISSION AND RURAL OPERATIONS	'-				
Terminal Stations	673.6	6,825.8	6,151.1	13,650.5	
Transmission	606.8	350.1	530.0	1,486.9	
Distribution	12,776.1	13,797.0	0.0	26,573.1	
Generation	809.8	3,409.0	10,172.8	14,391.6	
Properties	0.0	196.6	0.0	196.6	
Metering	379.6	1,077.6	258.8	1,716.0	
Tools and Equipment	482.5	1,814.2	1,054.1	3,350.8	
TOTAL TRANSMISSION AND RURAL OPERATIONS	15,728.4	27,470.3	18,166.8	61,365.5	
GENERAL PROPERTIES					
Information Systems	187.4	2,335.5	589.0	3,111.9	
Telecontrol	0.0	2,070.2	706.9	2,777.1	
Transportation	1,711.4	2,521.1	679.2	4,911.7	
Administrative	0.0	340.4	0.0	340.4	
TOTAL GENERAL PROPERTIES	1,898.8	7,267.2	1,975.1	11,141.1	
ALLOWANCE FOR UNFORESEEN EVENTS	0.0	1,000.0	0.0	1,000.0	
TOTAL CAPITAL BUDGET	20,052.5	46,240.7	20,141.9	86,435.1	

	Expended		Future		Page
PROJECT DESCRIPTION	to 2012	2013	Years	Total	Ref
PROJECT DESCRIPTION	10 2012	2013	(\$000)	TOtal	ı.cı
HYDRAULIC PLANT			(3000)		
Replace Stator Windings Unit 1 - Bay d'Espoir		5,663.5		5,663.5	C - 3
Replace Static Excitation Systems - Upper Salmon,					
Holyrood and Hinds Lake	1,813.9	2,295.2		4,109.1	
Replace Emergency Diesel Generator - Bay d'Espoir	611.4	282.7		894.1	
Upgrade Burnt Dam Spillway - Bay d'Espoir		885.8		885.8	C - 18
Overhaul Turbine/Generator Units - Bay d'Espoir and Cat Arm		428.1		428.1	D - 45
Replace MicroSCADA Computers - Granite Canal		297.4		297.4	D - 78
Replace North End Equipment Door - Bay d'Espoir		265.5		265.5	D - 107
Replace Fall Arrest System on Surge Tank 2 - Bay d'Espoir		153.0		153.0	E - 22
Install Waste Oil Storage Tank for PCB's - Bay d'Espoir		48.9		48.9	
Replace Emergency Diesel Fuel Tank - Paradise River		46.3		46.3	
Upgrade Water Flow Control Structure RR Pond - Granite Canal		43.5		43.5	
TOTAL HYDRAULIC PLANT	2,425.3	10,409.9	0.0	12,835.2	•
THERMAL PLANT					<u>.</u>
TOTAL THERMAL PLANT	0.0	0.0	0.0	0.0	
GAS TURBINES					
TOTAL GAS TURBINE PLANTS	0.0	0.0	0.0	0.0	<u>.</u> =
TOOLS AND EQUIPMENT					
Purchase Tools and Equipment Less than \$50,000		93.3		93.3	
TOTAL TOOLS AND EQUIPMENT	0.0	93.3	0.0	93.3	-
TOTAL GENERATION	2,425.3	10,503.2	0.0	12,928.5	•

	Expended		Future		Page
PROJECT DESCRIPTION	to 2012	2013	Years	Total	Ref
			(\$000)		
TERMINAL STATIONS					
Replace Instrument Transformers - Various Sites		593.2	3,074.8	3,668.0	C - 33
Upgrade Circuit Breakers - Various Sites		2,785.3		2,785.3	C - 42
Replace Compressed Air Systems - Sunnyside and Stoney Brook		303.0	2,105.9	2,408.9	C - 47
Perform Grounding Upgrades - Various Sites	645.2	329.0	682.5	1,656.7	
Upgrade Power Transformers - Various Sites		1,621.1		1,621.1	C - 52
Replace Disconnects - Various Sites		492.6		492.6	D - 123
Replace Insulators - Various Sites		187.1	287.9	475.0	D - 142
Replace Compressed Air Piping - Buchans	28.4	278.3		306.7	
Replace Surge Arrestors - Various Sites		121.3		121.3	E - 118
Install Transformer Fans - Conne River		114.9		114.9	E - 126
TOTAL TERMINAL STATIONS	673.6	6,825.8	6,151.1	13,650.5	-
TRANSMISSION					
Replace Guy Wires TL215 - Doyles to Grand Bay	606.8	350.1	530.0	1,486.9	
TOTAL TRANSMISSION	606.8	350.1	530.0	1,486.9	- -
DISTRIBUTION					
Voltage Conversion - Labrador City	8,430.8	969.5		9,400.3	
Provide Service Extensions - All Service Areas		5,006.0		5,006.0	C - 31
Upgrade L2 Distribution Feeder - Glenburnie	2,960.1	596.6		3,556.7	
Additions for Load Distribution Systems - Various Sites		3,114.7		3,114.7	C - 35
Upgrade Distribution Systems - All Service Areas		2,790.0		2,790.0	C - 38
Upgrade Distribution Lines - Bay d'Espoir, Parsons Pond					
and Plum Point	1,385.2	1,110.5		2,495.7	
Replace Recloser Control Panels - Various Sites		209.7		209.7	D - 215
TOTAL DISTRIBUTION	12,776.1	13,797.0	0.0	26,573.1	- -

PROJECT DESCRIPTION	Expended to 2012	2013	Future Years (\$000)	Total	Page Ref
GENERATION Additions for Load Isolated Generation Stations - Various Sites		2,040.2	9,357.9	11,398.1	C 27
Perform Arc Flash Remediation - Various Sites	809.8	391.0	9,337.9 814.9	2,015.7	C - 27
Overhaul Diesel Units - Various Sites	003.0	977.8	011.5	•	C - 56
TOTAL GENERATION	809.8	3,409.0	10,172.8	14,391.6	•
PROPERTIES					
Install Fall Protection Equipment - Various Sites		196.6		196.6	E - 64
TOTAL PROPERTIES	0.0	196.6	0.0	196.6	•
METERING					
Install Automated Meter Reading - Plum Point and Bear Cove	379.6	287.7		667.3	
Install Automated Meter Reading - Various Sites		397.9	258.8	656.7	C - 58
Purchase Meters, Equipment and Metering Tanks - Various Sites		199.5		199.5	E - 45
Purchase 10 Position Meter Calibration Test Console - Hydro Place		192.5		192.5	E - 73
TOTAL METERING	379.6	1,077.6	258.8	1,716.0	<u>.</u>
TOOLS AND EQUIPMENT					-
Replace Off-Road Track Vehicles - Whitbourne, Happy Valley					
and Port Saunders		416.8	1,054.1	1,470.9	C - 54
Replace Off Road Track Vehicles - Flower's Cove and Cow Head	482.5	395.6		878.1	
Purchase Tools and Equipment Less than \$50,000		525.3		525.3	
Replace Light Duty Mobile Equipment - Various Sites		476.5		476.5	D - 136
TOTAL TOOLS AND EQUIPMENT	482.5	1,814.2	1,054.1	3,350.8	=
TOTAL TRANSMISSION AND RURAL OPERATIONS	15,728.4	27,470.3	18,166.8	61,365.5	•

	Expended		Future		Page
PROJECT DESCRIPTION	to 2012	2013	Years	Total	Ref
			(\$000)		
INFORMATION SYSTEMS					
SOFTWARE APPLICATIONS					
New Infrastructure					
Perform Minor Application Enhancements - Hydro Place		126.8		126.8	E - 149
Cost Recoveries		(45.7)		(45.7)	
Upgrade of Technology					
Upgrade Microsoft Products - Various Sites		656.7	920.3	1,577.0	C - 64
Cost Recoveries		(236.4)	(331.3)	(567.7)	
Upgrade JD Edwards - Hydro Place	284.0	587.6		871.6	
Cost Recoveries	(96.6)	(199.8)		(296.4)	
Upgrade Business Intelligence Software - Hydro Place		576.9		576.9	C - 69
Cost Recoveries		(207.7)		(207.7)	
Upgrade Energy Management System - Hydro Place		129.9		129.9	E - 138
TOTAL SOFTWARE APPLICATIONS	187.4	1,388.3	589.0	2,164.7	
COMPUTER OPERATIONS					
Infrastructure Replacement					
Replace Peripheral Infrastructure - Various Sites		309.9		309.9	D - 259
Upgrade Enterprise Storage Capacity - Hydro Place		194.9		194.9	E - 140
Cost Recoveries		(70.2)		(70.2)	
Upgrade of Technology					
Upgrade Server Technology Program - Various Sites		499.4		499.4	D - 239
Cost Recoveries		(131.8)		(131.8)	
Replace Computer Room Air Conditioner - Hydro Place		130.0		130.0	E - 143
Cost Recoveries		(46.8)		(46.8)	
Replace Helpdesk Service Manager Application - Hydro Place		96.5		96.5	E - 151
Cost Recoveries		(34.7)		(34.7)	
TOTAL COMPUTER OPERATIONS	0.0	947.2	0.0	947.2	
TOTAL INFORMATION SYSTEMS	187.4	2,335.5	589.0	3,111.9	

PROJECT DESCRIPTION	Expended to 2012	2013	Future Years	Total	Page Ref
TROJECT DESCRIPTION	10 2012	2013	(\$000)	Total	- NCI
TELECONTROL			(, 7		
NETWORK SERVICES					
Infrastructure Replacement					
Replace MDR4000 Microwave Radio (West) - Various Sites		539.0	706.9	1,245.9	C - 62
Replace Radomes - Various Sites		336.0		336.0	D - 245
Purchase Tools and Equipment Less than \$50,000		45.6		45.6	
Network Infrastructure					
Replace Battery Banks and Chargers - Various Sites		782.0		782.0	C - 67
Replace Network Communications Equipment - Various Sites		182.4		182.4	E - 133
Upgrade of Technology					
Replace Telephone System - St. Anthony		135.4		135.4	E - 135
Upgrade Site Facilities - Various Sites		49.8		49.8	
TOTAL TELECONTROL	0.0	2,070.2	706.9	2,777.1	- =
TRANSPORTATION					
Replace Vehicles and Aerial Devices (2012-2013) - Various Sites	1,711.4	1,218.8		2,930.2	
Replace Vehicles and Aerial Devices (2013-2014) - Various Sites		1,302.3	679.2	1,981.5	C - 60
TOTAL TRANSPORTATION	1,711.4	2,521.1	679.2	4,911.7	-
<u>ADMINISTRATION</u>					
Remove Safety Hazards - Various Sites		250.5		250.5	D - 264
Purchase Tools and Equipment Less than \$50,000		89.9		89.9	
TOTAL ADMINISTRATION	0.0	340.4	0.0	340.4	-
TOTAL GENERAL PROPERTIES	1,898.8	7,267.2	1,975.1	11,141.1	=

	Expended Futur		Expended Futur		Expended Futur		Expended Future		Future		pended Future	
	to 2012	2013										
	(\$000)											
GENERATION	1,683.9	8,985.5	3,788.3	14,457.7								
TRANSMISSION AND RURAL OPERATIONS	0.0	6,582.4	5,208.8	11,791.2								
GENERAL PROPERTIES	0.0	936.0	0.0	936.0								
ALLOWANCE FOR UNFORESEEN EVENTS	0.0	0.0	0.0	0.0								
TOTAL CAPITAL BUDGET	1,683.9	16,503.9	8,997.1	27,184.9								

	Expended		Future	
	to 2012	2013	Years	Total
		(\$0	00)	
<u>GENERATION</u>				
Hydraulic Plant	0.0	2,493.1	0.0	2,493.1
Thermal Plant	1,683.9	6,431.0	2,659.7	10,774.6
Gas Turbines	0.0	61.4	1,128.6	1,190.0
Tools and Equipment	0.0	0.0	0.0	0.0
TOTAL GENERATION	1,683.9	8,985.5	3,788.3	14,457.7
TRANSMISSION AND RURAL OPERATIONS				
Terminal Stations	0.0	1,338.6	1,173.3	2,511.9
Transmission	0.0	2,466.7	0.0	2,466.7
Distribution	0.0	1,940.1	3,995.5	5,935.6
Generation	0.0	0.0	0.0	0.0
Properties	0.0	837.0	40.0	877.0
Metering	0.0	0.0	0.0	0.0
Tools and Equipment	0.0	0.0	0.0	0.0
TOTAL TRANSMISSION AND RURAL OPERATIONS	0.0	6,582.4	5,208.8	11,791.2
GENERAL PROPERTIES				
Information Systems	0.0	463.9	0.0	463.9
Telecontrol	0.0	0.0	0.0	0.0
Transportation	0.0	0.0	0.0	0.0
Administrative	0.0	472.1	0.0	472.1
TOTAL GENERAL PROPERTIES	0.0	936.0	0.0	936.0
ALLOWANCE FOR UNFORESEEN EVENTS	0.0	0.0	0.0	0.0
TOTAL CAPITAL BUDGET	1,683.9	16,503.9	8,997.1	27,184.9

ROJECT DESCRIPTION total (1988) Question (1988) Total (1988) Residual (1988) Total (1988) Residual (1988) Total (1988) Residual (1988) Contact (1988) Contac		Expended		Future		Page
HYDRAULIC PLANT Automate Generator Deluge Systems Units 5 and 6 - Bay d'Espoir 532.0 532.0 480.9 480.9 1.0 at 30.9 480.9 1.0 at 30.9	PROJECT DESCRIPTION	to 2012	2013		Total	Ref
Automate Generator Deluge Systems Units 5 and 6 - Bay d'Espoir 532.0 532.0 C - 24 Upgrade Generator Bearings- Bay d'Espoir 480.9 480.9 D - 33 Replace Automatic Transfer Switches - Hinds Lake 314.7 314.7 D - 56 Upgrade Public Safety Around Dams and Waterways - Bay d'Espoir 298.1 298.1 D - 56 Replace Auto Greasing Systems Units 1 and 3 - Bay d'Espoir 298.1 192.7 192.7 E - 26 Replace Cooling Water Pumps - Bay d'Espoir 175.4 175.4 E - 19 Replace Cooling Water Pumps - Bay d'Espoir 141.9 175.4 E - 19 Purchase Low Pressure Screw Compressor Set - Bay d'Espoir 97.3 97.3 E - 26 Purchase Low Pressure Screw Compressor Set - Bay d'Espoir 10.0 2,493.1 0.0 2,493.1 0.0 2,493.1 0.0 2,493.1 0.0 2,493.1 0.0 2,493.1 0.0 2,493.1 0.0 2,493.1 0.0 2,493.1 0.0 2,493.1 0.0 2,493.1 0.0 2,493.2 2,493.2 2,492.2 2,492.2 2,492.2 2,492.				(\$000)		
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Replace Automatic Transfer Switches - Hinds Lake 314.7 314.7 27.5 Upgrade Public Safety Around Dams and Waterways - Bay d'Espoir 298.1 298.1 298.1 0.56 Replace Auto Greasing Systems Units 1 and 3 - Bay d'Espoir 192.7 192.7 192.7 175.4 175.4 12.1 Install Automated Fuel Monitoring System - Upper Salmon 192.7 175.4 175.4 12.9 Replace Goving Water Pumps - Bay d'Espoir 115.9 141.9 2.0 2.493.1 141.9 2.2 Purchase Low Pressure Screw Compressor Set - Bay d'Espoir 97.3 7.0 2.493.1 2.0 2.493.1 2.0 2.493.1 2.0 2.493.1 2.0 2.493.1 2.0 2.493.1 2.0 2.493.1 2.0 2.493.1 2.0 2.493.1 2.0 2.493.1 2.0 2.493.1 2.0 2.493.1 2.0 2.493.1 2.0 2.493.1 2.0 2.493.1 2.0 2.493.1 2.0 2.493.1 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0<						-
Upgrade Public Safety Around Dams and Waterways - Bay d'Espoir 298.1 298.1 2011 Replace Auto Greasing Systems Units 1 and 3 - Bay d'Espoir 260.1 260.2 260.1 260.2 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
Replace Auto Greasing Systems Units 1 and 3 - Bay d'Espoir 260.1 260.1 261.0 1 192.7 2 - 2 1 192.7 2 - 2 1 192.7 2 - 2 1 192.7 2 - 2 1 192.7 2 - 2 2 - 2 2 - 2 1 192.7 2 - 2 2	·					
Install Automated Fuel Monitoring System - Upper Salmon 192.7 192.7 E - 19 Replace Cooling Water Pumps - Bay d'Espoir 175.4 175.4 E - 19 Replace By-Pass Valves Units 3 and 4 - Bay d'Espoir 97.3 97.3 E - 41 Purchase Low Pressure Screw Compressor Set - Bay d'Espoir 0.0 2,493.1 0.0 2,493.1 TOTAL HYDRAULIC PLANT Expended be patended Future 20 2,493.1 70.0 2,493.1 TOTAL HYDRAULIC PLANT to 2012 Years Total Ref Expended be patended be future Leganded 2,693.1 2,693.2 Years TOTAL HYDRAULIC PLANT 0.0 2,493.1 0.0 2,493.1 7.0 2,493.1 7.0 2,493.1 7.0 2,493.1 7.0 2,493.1 7.0 2,493.1 7.0 2,693.1 7.0 2,693.1 7.0 2,693.1 2,693.1 2,693.2 2,682.2 2,682.2 2,682.2 2,682.2 2,693.2 2,693.2 2,693.2 2,693.2	, , , ,					
Replace Cooling Water Pumps - Bay d'Espoir 175.4 175.4 175.4 175.4 175.6 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
Replace By-Pass Valves Units 3 and 4 - Bay d'Espoir 141.9 <th< td=""><td></td><td></td><td>_</td><td></td><td>-</td><td></td></th<>			_		-	
Purchase Low Pressure Screw Compressor Set - Bay d'Espoir 97.3 2-43 TOTAL HYDRAULIC PLANT 2.00 2.493.1 0.0 2.493.1 PROJECT DESCRIPTION Expended to 2012 Future plant Page THERMAL PLANT Install Variable Frequency Drives on Forced Draft Fans - Holyrood 697.6 2,659.7 3,357.3 C-6 Replace Fuel Oil Heat Tracing - Holyrood 1,474.3 1,410.2 2,888.2 C-12 Complete Condition Assessment Phase 2 (Year 2) - Holyrood 993.9 1,170.2 2,170.2 C-12 Overhaul Unit 3 Turbine Valves - Holyrood 993.9 2,888.2 C-2 C-12 Upgrade Fuel Oil Day Tank - Holyrood 209.6 212.1 421.7 C-12 Upgrade Electrical Equipment - Holyrood 209.6 212.1 421.7 E-14 Replace Condensate Polisher Annunicator Panels - Holyrood 178.5 178.5 E-11 Replace Condensate Polisher Annunicator Panels - Holyrood 101.5 2,659.7 107.7 E-34 TOTAL THERMAL PLANT 1,683.9 6,431.0 2,659.7 10,774.6<					_	_
Note	· · · ·		_		_	-
PROJECT DESCRIPTION Expended to 2012 2013 Vears Total Ref				0.0		L - 41 -
PROJECT DESCRIPTION 10 2012 2013 10 2	TOTAL HYDRAULIC PLANT	0.0	2,493.1	0.0	2,493.1	
THERMAL PLANT Install Variable Frequency Drives on Forced Draft Fans - Holyrood Replace Fuel Oil Heat Tracing - Holyrood 1,474.3 1,413.9 2,888.2 2,888.2 Complete Condition Assessment Phase 2 (Year 2) - Holyrood 1,170.2 1,170.2 0,000 1,1		Expended		Future		Page
Install Variable Frequency Drives on Forced Draft Fans - Holyrood Replace Fuel Oil Heat Tracing - Holyrood 1,474.3 1,413.9 2,888.2 Complete Condition Assessment Phase 2 (Year 2) - Holyrood 1,474.3 1,413.9 2,888.2 Complete Condition Assessment Phase 2 (Year 2) - Holyrood 1,170.2 C - 12 Overhaul Unit 3 Turbine Valves - Holyrood 993.9 C - 14 Install Backup System for Raw Water Supply and Clarifier - Holyrood 955.6 C - 16 Upgrade Fuel Oil Day Tank - Holyrood 955.6 C - 16 Upgrade Electrical Equipment - Holyrood 209.6 212.1 421.7 Overhaul Unit 3 Boiler Feed Pump West - Holyrood 178.5 178.5 E - 11 Replace Condensate Polisher Annunicator Panels - Holyrood 123.5 123.5 E - 31 Overhaul Unit 2 Extraction Pump South - Holyrood 10,683.9 6,431.0 2,659.7 10,774.6 TOTAL THERMAL PLANT 6.83 TURBINES 0.0 61.4 1,128.6 1,190.0 C - 10 TOTAL GAS TURBINE PLANTS 0.0 61.4 1,128.6 1,190.0 TOTAL TOOLS AND EQUIPMENT 0.0 0.0 0.0 0.0 0.0 0.0 0.0	PROJECT DESCRIPTION	to 2012	2013	Years	Total	Ref
Install Variable Frequency Drives on Forced Draft Fans - Holyrood 697.6 2,659.7 3,357.3 C - 6 Replace Fuel Oil Heat Tracing - Holyrood 1,474.3 1,413.9 2,888.2 - Complete Condition Assessment Phase 2 (Year 2) - Holyrood 1,170.2 1,170.2 C - 12 Overhaul Unit 3 Turbine Valves - Holyrood 993.9 993.9 993.9 C - 14 Install Backup System for Raw Water Supply and Clarifier - Holyrood 955.6 955.6 C - 16 Upgrade Fuel Oil Day Tank - Holyrood 584.2 584.2 C - 22 Upgrade Electrical Equipment - Holyrood 209.6 212.1 421.7 Overhaul Unit 3 Boiler Feed Pump West - Holyrood 178.5 178.5 E - 11 Replace Condensate Polisher Annunicator Panels - Holyrood 101.5 101.5 E - 31 Overhaul Unit 2 Extraction Pump South - Holyrood 1,683.9 6,431.0 2,659.7 10,774.6 TOTAL THERMAL PLANT 1,683.9 6,431.0 2,659.7 10,774.6 TOTAL GAS TURBINE PLANTS 0.0 61.4 1,128.6 1,190.0 C - 10		-		(\$000)		
Replace Fuel Oil Heat Tracing - Holyrood 1,474.3 1,413.9 2,888.2 Complete Condition Assessment Phase 2 (Year 2) - Holyrood 1,170.2 1,170.2 C - 12 Overhaul Unit 3 Turbine Valves - Holyrood 993.9 993.9 993.9 C - 14 Install Backup System for Raw Water Supply and Clarifier - Holyrood 955.6 955.6 C - 16 Upgrade Fuel Oil Day Tank - Holyrood 584.2 584.2 C - 22 Upgrade Electrical Equipment - Holyrood 209.6 212.1 421.7 Overhaul Unit 3 Boiler Feed Pump West - Holyrood 178.5 178.5 E - 11 Replace Condensate Polisher Annunicator Panels - Holyrood 123.5 123.5 E - 31 Overhaul Unit 2 Extraction Pump South - Holyrood 1,683.9 6,431.0 2,659.7 10,774.6 TOTAL THERMAL PLANT 1,683.9 6,431.0 2,659.7 10,774.6 TOTAL GAS TURBINE PLANTS 0.0 61.4 1,128.6 1,190.0 TOTAL GAS TURBINE PLANTS 0.0 0.0 0.0 0.0 0.0 TOTAL TOOLS AND EQUIPMENT	THERMAL PLANT					
Complete Condition Assessment Phase 2 (Year 2) - Holyrood 1,170.2 1,170.2 C - 12 Overhaul Unit 3 Turbine Valves - Holyrood 993.9 993.9 C - 14 Install Backup System for Raw Water Supply and Clarifier - Holyrood 955.6 955.6 C - 16 Upgrade Fuel Oil Day Tank - Holyrood 584.2 584.2 C - 22 Upgrade Electrical Equipment - Holyrood 178.5 178.5 E - 11 Replace Condensate Polisher Annunicator Panels - Holyrood 123.5 123.5 E - 31 Overhaul Unit 2 Extraction Pump South - Holyrood 101.5 101.5 E - 34 TOTAL THERMAL PLANT 1,683.9 6,431.0 2,659.7 10,774.6 GAS TURBINES Upgrade Gas Turbine Controls - Happy Valley 61.4 1,128.6 1,190.0 TOTAL GAS TURBINE PLANTS 0.0 61.4 1,128.6 1,190.0 TOOLS AND EQUIPMENT TOTAL TOOLS AND EQUIPMENT	Install Variable Frequency Drives on Forced Draft Fans - Holyrood		697.6	2,659.7	3,357.3	C - 6
Overhaul Unit 3 Turbine Valves - Holyrood 993.9 993.9 C - 14 Install Backup System for Raw Water Supply and Clarifier - Holyrood 955.6 955.6 C - 16 Upgrade Fuel Oil Day Tank - Holyrood 584.2 584.2 C - 22 Upgrade Electrical Equipment - Holyrood 209.6 212.1 421.7 Overhaul Unit 3 Boiler Feed Pump West - Holyrood 178.5 178.5 E - 11 Replace Condensate Polisher Annunicator Panels - Holyrood 123.5 123.5 E - 31 Overhaul Unit 2 Extraction Pump South - Holyrood 101.5 101.5 E - 34 TOTAL THERMAL PLANT 1,683.9 6,431.0 2,659.7 10,774.6 FORTURBINES Upgrade Gas Turbine Controls - Happy Valley 61.4 1,128.6 1,190.0 C - 10 TOTAL GAS TURBINE PLANTS 0.0 61.4 1,128.6 1,190.0 C - 10 TOOLS AND EQUIPMENT 0.0 0.0 0.0 0.0 0.0 0.0	Replace Fuel Oil Heat Tracing - Holyrood	1,474.3	1,413.9		2,888.2	
Install Backup System for Raw Water Supply and Clarifier - Holyrood	Complete Condition Assessment Phase 2 (Year 2) - Holyrood		1,170.2		1,170.2	C - 12
Upgrade Fuel Oil Day Tank - Holyrood 584.2 584.2 C - 22 Upgrade Electrical Equipment - Holyrood 209.6 212.1 421.7 Overhaul Unit 3 Boiler Feed Pump West - Holyrood 178.5 178.5 E - 11 Replace Condensate Polisher Annunicator Panels - Holyrood 123.5 123.5 E - 31 Overhaul Unit 2 Extraction Pump South - Holyrood 101.5 101.5 E - 34 TOTAL THERMAL PLANT 1,683.9 6,431.0 2,659.7 10,774.6 GAS TURBINES Upgrade Gas Turbine Controls - Happy Valley 61.4 1,128.6 1,190.0 C - 10 TOTAL GAS TURBINE PLANTS 0.0 61.4 1,128.6 1,190.0 C - 10 TOOLS AND EQUIPMENT 0.0 0.0 0.0 0.0 0.0 0.0	Overhaul Unit 3 Turbine Valves - Holyrood		993.9		993.9	C - 14
Upgrade Electrical Equipment - Holyrood 209.6 212.1 421.7 Overhaul Unit 3 Boiler Feed Pump West - Holyrood 178.5 178.5 E - 11 Replace Condensate Polisher Annunicator Panels - Holyrood 123.5 123.5 E - 31 Overhaul Unit 2 Extraction Pump South - Holyrood 101.5 101.5 E - 34 TOTAL THERMAL PLANT 1,683.9 6,431.0 2,659.7 10,774.6 GAS TURBINES Upgrade Gas Turbine Controls - Happy Valley 61.4 1,128.6 1,190.0 C - 10 TOTAL GAS TURBINE PLANTS 0.0 61.4 1,128.6 1,190.0 C - 10 TOTAL TOOLS AND EQUIPMENT TOTAL TOOLS AND EQUIPMENT 0.0 0.0 0.0 0.0 0.0 0.0	Install Backup System for Raw Water Supply and Clarifier - Holyrood		955.6		955.6	C - 16
Overhaul Unit 3 Boiler Feed Pump West - Holyrood 178.5 178.5 E - 11 Replace Condensate Polisher Annunicator Panels - Holyrood 123.5 E - 31 Overhaul Unit 2 Extraction Pump South - Holyrood 101.5 101.5 E - 34 TOTAL THERMAL PLANT 1,683.9 6,431.0 2,659.7 10,774.6 E - 34 GAS TURBINES Upgrade Gas Turbine Controls - Happy Valley 61.4 1,128.6 1,190.0 C - 10 TOTAL GAS TURBINE PLANTS 0.0 61.4 1,128.6 1,190.0 C - 10 TOOLS AND EQUIPMENT TOTAL TOOLS AND EQUIPMENT 0.0 0.0 0.0 0.0 0.0	Upgrade Fuel Oil Day Tank - Holyrood		584.2		584.2	C - 22
Replace Condensate Polisher Annunicator Panels - Holyrood 123.5 123.5 E - 31 Overhaul Unit 2 Extraction Pump South - Holyrood 101.5 101.5 E - 34 TOTAL THERMAL PLANT 1,683.9 6,431.0 2,659.7 10,774.6 GAS TURBINES Upgrade Gas Turbine Controls - Happy Valley 61.4 1,128.6 1,190.0 C - 10 TOTAL GAS TURBINE PLANTS 0.0 61.4 1,128.6 1,190.0 C - 10 TOTAL TOOLS AND EQUIPMENT TOTAL TOOLS AND EQUIPMENT 0.0 0.0 0.0 0.0 0.0	, , , , , , , , , , , , , , , , , , , ,	209.6	212.1		421.7	
Overhaul Unit 2 Extraction Pump South - Holyrood 101.5 101.5 E - 34 TOTAL THERMAL PLANT 1,683.9 6,431.0 2,659.7 10,774.6 E - 34 GAS TURBINES Upgrade Gas Turbine Controls - Happy Valley 61.4 1,128.6 1,190.0 C - 10 TOTAL GAS TURBINE PLANTS 0.0 61.4 1,128.6 1,190.0 TOOLS AND EQUIPMENT TOTAL TOOLS AND EQUIPMENT 0.0 0.0 0.0 0.0 0.0	Overhaul Unit 3 Boiler Feed Pump West - Holyrood		178.5		178.5	E - 11
TOTAL THERMAL PLANT 1,683.9 6,431.0 2,659.7 10,774.6 GAS TURBINES Upgrade Gas Turbine Controls - Happy Valley 61.4 1,128.6 1,190.0 C - 10 TOTAL GAS TURBINE PLANTS 0.0 61.4 1,128.6 1,190.0 Total TOOLS AND EQUIPMENT 0.0 0.	Replace Condensate Polisher Annunicator Panels - Holyrood		123.5		123.5	E - 31
GAS TURBINES Upgrade Gas Turbine Controls - Happy Valley 61.4 1,128.6 1,190.0 C - 10 TOTAL GAS TURBINE PLANTS 0.0 61.4 1,128.6 1,190.0 TOOLS AND EQUIPMENT 0.0 0.0 0.0 0.0 TOTAL TOOLS AND EQUIPMENT 0.0 0.0 0.0 0.0	Overhaul Unit 2 Extraction Pump South - Holyrood		101.5		101.5	E - 34
Upgrade Gas Turbine Controls - Happy Valley 61.4 1,128.6 1,190.0 C - 10 TOTAL GAS TURBINE PLANTS 0.0 61.4 1,128.6 1,190.0 TOOLS AND EQUIPMENT 0.0 0.0 0.0 0.0 TOTAL TOOLS AND EQUIPMENT 0.0 0.0 0.0 0.0	TOTAL THERMAL PLANT	1,683.9	6,431.0	2,659.7	10,774.6	•
Upgrade Gas Turbine Controls - Happy Valley 61.4 1,128.6 1,190.0 C - 10 TOTAL GAS TURBINE PLANTS 0.0 61.4 1,128.6 1,190.0 TOOLS AND EQUIPMENT 0.0 0.0 0.0 0.0 TOTAL TOOLS AND EQUIPMENT 0.0 0.0 0.0 0.0	GAS TURBINES					
TOOLS AND EQUIPMENT TOTAL TOOLS AND EQUIPMENT 0.0 0.0 0.0 0.0			61.4	1,128.6	1,190.0	C - 10
TOTAL TOOLS AND EQUIPMENT 0.0 0.0 0.0 0.0	TOTAL GAS TURBINE PLANTS	0.0	61.4	1,128.6	1,190.0	
	TOOLS AND EQUIPMENT					
TOTAL GENERATION 1,683.9 8,985.5 3,788.3 14,457.7	TOTAL TOOLS AND EQUIPMENT	0.0	0.0	0.0	0.0	-
	TOTAL GENERATION	1,683.9	8,985.5	3,788.3	14,457.7	. =

PROJECT DESCRIPTION		2013	Future Years	Total	Page Ref
			(\$000)		
TERMINAL STATIONS		co= =	4.470.0		
Upgrade Terminal Station - Wiltondale		697.7	1,173.3	1,871.0	C - 50
Install Online Vibration Monitoring System - Corner Brook Frequency Converter		382.8		202.0	D - 161
Replace Optimho Relays on TL242 - Holyrood to Hardwoods		189.2			E - 101
Replace 230 kV Breaker Controls - Bottom Brook		68.9			E - 129
TOTAL TERMINAL STATIONS	0.0	1,338.6	1,173.3	2,511.9	
TRANSMISSION					
Perform Wood Pole Line Management Program - Various Sites		2,466.7		2,466.7	C - 45
TOTAL TRANSMISSION	0.0	2,466.7	0.0	2,466.7	<u>.</u>
DISTRIBUTION					•
Upgrade Distribution Systems - Various Sites		1,940.1	3,995.5	5,935.6	C - 29
TOTAL DISTRIBUTION	0.0	1,940.1	3,995.5	5,935.6	
-	0.0	1,540.1	3,333.3	3,333.0	
GENERATION					_
TOTAL GENERATION	0.0	0.0	0.0	0.0	•
<u>PROPERTIES</u>					
Install Automatic Fire Sprinkler System - Bay d'Espoir		429.9		429.9	D - 149
Install Additional Washrooms - Various Sites		250.9			D - 210
Legal Survey of Primary Distribution Line Right of Way - Various Sites		156.2	40.0	196.2	E - 113
TOTAL PROPERTIES	0.0	837.0	40.0	877.0	=
METERING					
TOTAL METERING	0.0	0.0	0.0	0.0	•
TOOLS AND EQUIPMENT					
TOTAL TOOLS AND EQUIPMENT	0.0	0.0	0.0	0.0	-
TOTAL TRANSMISSION AND RURAL OPERATIONS	0.0	6,582.4	5,208.8	11,791.2	=

PROJECT DESCRIPTION	Expended to 2012	2013	Future Years (\$000)	Total	Page Ref
INFORMATION SYSTEMS					
SOFTWARE APPLICATIONS					
New Infrastructure					
Upgrade of Technology					_
TOTAL SOFTWARE APPLICATIONS	0.0	0.0	0.0	0.0	=
COMPUTER OPERATIONS					
<u>Infrastructure Replacement</u> Replace Personal Computers - Various Sites		463.9		463.9	D - 234
<u>Upgrade of Technology</u>					_
TOTAL COMPUTER OPERATIONS	0.0	463.9	0.0	463.9	=
TOTAL INFORMATION SYSTEMS	0.0	463.9	0.0	463.9	_
NETWORK SERVICES Infrastructure Replacement Network Infrastructure Upgrade of Technology		0.0	0.0	0.0	_
TOTAL TELECONTROL	0.0	0.0	0.0	0.0	•
TRANSPORTATION					_
TOTAL TRANSPORTATION	0.0	0.0	0.0	0.0	=
ADMINISTRATION Front End Engineering Design - Hydro Place		472.1		472.1	D - 231
TOTAL ADMINISTRATION	0.0	472.1	0.0	472.1	-
TOTAL GENERAL PROPERTIES	0.0	936.0	0.0	936.0	•
The second of the second	- 0.0	330.0	0.0	330.0	•