	Expended				
	to 2014	2015	Years	Total	
		(\$000)			
GENERATION	534.9	17,901.0	5,254.1	23,690.0	
TRANSMISSION AND RURAL OPERATIONS	11,223.2	49,789.6	23,282.0	84,294.8	
GENERAL PROPERTIES	3,041.9	8,401.6	536.6	11,980.1	
CENTRAL FROM ENTES	3,041.3	0,401.0	330.0	11,560.1	
ALLOWANCE FOR UNFORESEEN ITEMS		1,000.0		1,000.0	
TOTAL CAPITAL BUDGET	14,800.0	77,092.2	29,072.7	120,964.9	

	Expended			
	to 2014	2015	Years	Total
	•		(\$000)	
GENERATION				
Hydraulic Plant	186.6	9,673.3	2,531.1	12,391.0
Thermal Plant	298.4	4,793.0	197.6	5,289.0
Gas Turbines		3,139.6	2,525.4	5,665.0
Tools and Equipment	49.9	295.1		345.0
TOTAL GENERATION	534.9	17,901.0	5,254.1	23,690.0
TRANSMISSION AND RURAL OPERATIONS				
Terminal Stations	7,057.7	17,007.4	16,386.5	40,451.6
Transmission	1,191.7	3,818.8	0.0	5,010.5
Distribution	481.5	16,707.3	818.8	18,007.6
Generation	1,978.6	7,728.0	4,175.4	13,882.0
Properties	156.8	2,313.6	1,101.7	3,572.1
Metering	356.9	1,096.3	401.8	1,855.0
Tools and Equipment	0.0	1,118.2	397.8	1,516.0
TOTAL TRANSMISSION AND RURAL OPERATIONS	11,223.2	49,789.6	23,282.0	84,294.8
GENERAL PROPERTIES				
Information Systems	711.6	2,680.0	0.0	3,391.6
Telecontrol	521.2	1,273.0	0.0	1,794.2
Transportation	1,809.1	3,468.1	225.3	5,502.5
Administrative		980.5	311.3	1,291.8
TOTAL GENERAL PROPERTIES	3,041.9	8,401.6	536.6	11,980.1
ALLOWANCE FOR UNFORESEEN ITEMS		1,000.0		1,000.0
TOTAL CAPITAL BUDGET	14,800.0	77,092.2	29,072.7	120,964.9
TOTAL CAPITAL DODULT	14,800.0	77,092.2	23,072.7	120,304.3

SECTION A: Capital Budget: Generation

	Expended		Future		Page
PROJECT DESCRIPTION	to 2014	2015	Years	Total	Ref
			(\$000)		
HYDRAULIC PLANT					
Replace Interior Coating on Surge Tank 3 - Bay d'Espoir		1,629.3		1,629.3	C - 5
Upgrade Burnt Dam Spillway Structure - Bay d'Espoir	110.2	1,201.9		1,312.1	
Rehabilitate Salmon River Spillway - Bay d'Espoir		745.6	556.8	1,302.4	C - 9
Replace Station Service Breakers - Cat Arm		644.9	363.4	1,008.3	C - 13
Refurbish Access Road - Cat Arm		990.0		990.0	C - 15
Replace ABB Exciter Unit 2 - Cat Arm		845.9		845.9	C - 17
Upgrade Generator Bearings Units 1 and 3 - Bay d'Espoir		14.7	633.3	648.0	C - 19
Automate Generator Deluge Systems - Bay d'Espoir		645.2		645.2	C - 21
Replace Pump House and Associated Equipment - Bay d'Espoir		22.7	522.5	545.2	C - 23
(
Upgrade Public Safety Around Dams and Waterways - Various Sites		483.9		483.9	D - 19
Upgrade Generator Bearings Unit 2 - Bay d'Espoir	18.9	396.0		414.9	E - 28
Install Hydrometeorological Stations - Various Sites		377.9		377.9	D - 43
Refurbish Generation Unit - Snook's Arm		352.9		352.9	D - 49
Upgrade Equipment Doors - Various Sites		348.5		348.5	D - 91
Refurbish Intakes - Bay d'Espoir		72.6	262.3	334.9	D - 99
Overhaul Turbine/Generator - Various Sites		304.4		304.4	D - 150
Replace Automatic Greasing Systems Units 2 and 4 - Bay d'Espoir		254.4		254.4	D - 156
Install Infrared View Ports - Various Sites		83.7	113.1	196.8	E - 2
Replace Spherical By Pass Valve Assemblies Units 1-6 - Bay d'Espoir	57.5	96.3		153.8	
Replace Generator Bearing Coolers - Bay d'Espoir		153.8		153.8	E - 28
Refurbish Unit Relay Protection - Paradise River		8.7	79.7	88.4	E - 34
TOTAL HYDRAULIC PLANT	186.6	9,673.3	2,531.1	12,391.0	

	Expended		Future		Page
PROJECT DESCRIPTION	to 2014	2015	Years	Total	Ref
	(\$000)				
THERMAL PLANT					
Overhaul Turbine Valves Unit 1 - Holyrood		1,577.5		1,577.5	C - 7
Upgrade Powerhouse Roofing - Holyrood		1,047.8		1,047.8	C - 11
Replace Economizer Inlet Valves Units 1 and 2 - Holyrood	192.0	329.1		521.1	
Install Cold-Reheat Condensate Drains and High Pressure	49.8	467.4		517.2	
Heater Trip Level Unit 3 - Holyrood					
Upgrade Quarry Brook Dam Equipment - Holyrood		498.7		498.7	D - 2
Install Fire Protection Upgrades - Holyrood	56.6	312.5		369.1	
Upgrade Fire Protection (Main Warehouse) - Holyrood		46.2	197.6	243.8	
Overhaul Boiler Feed Pump East Unit 1 - Holyrood		196.3		196.3	E - 4
Overhaul Extraction Pumps - Holyrood		189.6		189.6	E - 16
Replace DC Distribution Panels and Breakers - Holyrood		127.9		127.9	E - 31
TOTAL THERMAL PLANT	298.4	4,793.0	197.6	5,289.0	•
<u>GAS TURBINES</u>					
Upgrade Gas Turbine Plant Life Extension - Stephenville		2,655.2	2,525.4	5,180.6	C - 3
Replace Alternator Shaft - Happy Valley		484.4		484.4	D-8
TOTAL GAS TURBINES		3,139.6	2,525.4	5,665.0	
TOOLS AND EQUIPMENT					
Install Handheld Pendant to Overhead Crane - Bay d'Espoir	49.9	170.8		220.7	
Purchase Tools and Equipment Less than \$50,000	15.5	124.3		124.3	
TOTAL TOOLS AND EQUIPMENT	49.9	295.1		345.0	=
	+5.5	233.1		3 13.0	•
TOTAL GENERATION	534.9	18,061.0	5,602.6	24,198.5	•

PROJECT DESCRIPTION 1970		Expended		Future		Page
Page	PROJECT DESCRIPTION	to 2014			Total	Ref
Upgrade Circuit Breakers - Various Sites (2015-2016)				(\$000)		
Upgrade Circuit Breakers - Various Sites (2015-2016)	TERMINAL STATIONS					
Digrade Circuit Breakers - Various Sites (2014-2015) 3,695.4 1,642.5 5,337.9 Replace Instrument Transformers - Various Sites 1,146.0 538.4 1,684.5 Replace Observations Sites 1,146.0 538.4 1,684.5 Replace Disconnect Switches - Various Sites 963.7 642.9 1,606.6 Replace Disconnect Switches - Various Sites (2015-2016) 963.7 642.9 1,606.6 Install Transformer On line Gas Monitoring - Various Sites 700.5 975.7 1,676.2 0.57 Replace Disconnect Switches - Various Sites (2014-2015) 815.9 815.9 815.9 10.05 Perform Site Work for Mobile Substation - Barachoix 489.3 489.3 489.3 0.222 Upgrade Terminal Station Protection and Control - Various Sites 67.6 424.3 491.9 0.228 Upgrade Terminal Station Protection and Control - Various Sites 302.3 302.3 302.3 302.3 302.3 Upgrade Terminal Station Foundations - Various Sites 302.3			6,189.1	6,873.8	13,062.9	C - 27
Replace Instrument Transformers - Various Sites 1,146.0 538.4 1,684.4 Perform Grounding Upgrades - Various Sites 1,311.3 345.7 642.9 1,606.6 C - 46 Install Transformer On line Gas Monitoring - Various Sites 700.5 975.7 1,676.2 C - 57 Replace Disconnect Switches - Various Sites (2014-2015) 815.9 189.5 1,005.4 C - 57 Replace Disconnect Switches - Various Sites (2014-2015) 815.9 189.5 1,005.4 C - 57 Replace Disconnect Switches - Various Sites (2014-2015) 815.9 189.5 1,005.4 C - 57 Replace Disconnect Switches - Various Sites (2014-2015) 815.9 189.5 1,005.4 C - 26 Design and Install Fire Protection in 230 kV Station - Various Sites 6.68.0 489.3 489.3 0 - 222 Upgrade Terminal Station Protection and Control - Various Sites 12.27 307.2 479.9 D - 228 Upgrade Terminal Station Protection and Control - Various Sites 199.3 199.3 199.3 199.3 199.3 199.3 199.3 199.3 199.3 199.3 199.3 1	Upgrade Power Transformers - Various Sites		4,440.4	7,002.3	11,442.7	C - 29
Perform Grounding Upgrades - Various Sites 1,311.3 345.4 1,656.7 Replace Disconnect Switches - Various Sites (2015-2016) 963.7 642.9 1,606.6 C - 46 Install Transformer On line Gas Monitoring - Various Sites 700.5 975.7 1,676.2 C - 57 Replace Disconnect Switches - Various Sites (2014-2015) 815.9 189.5 1,005.4 C - 57 Replace Disconnect Switches - Various Sites (2014-2015) 815.9 189.5 1,005.4 C - 57 Perform Site Work for Mobile Substation - Barachoix 67.6 424.3 491.9 D - 222 Upgrade Terminal Station Protection and Control - Various Sites 102.7 307.2 479.9 D - 228 Upgrade Terminal Station Protection and Control - Various Sites 302.3 302.3 302.3 D - 228 Upgrade Control Wiring Phase 1 to Terminal Station 1 - Bay d'Espoir 301.0 301.0 301.0 D - 288 Install Support Structures C2 Capacitor Bank - Hardwoods 89.1 96.9 186.0 186.0 Replace Surge Arrestors - Various Sites 89.1 96.9 186.0 186.0 Repl	Upgrade Circuit Breakers - Various Sites (2014-2015)	3,695.4	1,642.5		5,337.9	
Perform Grounding Upgrades - Various Sites 1,311.3 345.4 1,656.7 Replace Disconnect Switches - Various Sites (2015-2016) 963.7 642.9 1,606.6 C - 46 Install Transformer On line Gas Monitoring - Various Sites 700.5 975.7 1,676.2 C - 57 Replace Disconnect Switches - Various Sites (2014-2015) 815.9 189.5 1,005.4 C - 57 Replace Disconnect Switches - Various Sites (2014-2015) 815.9 189.5 1,005.4 C - 57 Perform Site Work for Mobile Substation - Barachoix 67.6 424.3 491.9 D - 222 Upgrade Terminal Station Protection and Control - Various Sites 102.7 307.2 479.9 D - 228 Upgrade Terminal Station Protection and Control - Various Sites 302.3 302.3 302.3 D - 228 Upgrade Control Wiring Phase 1 to Terminal Station 1 - Bay d'Espoir 301.0 301.0 301.0 D - 288 Install Support Structures C2 Capacitor Bank - Hardwoods 89.1 96.9 186.0 186.0 Replace Surge Arrestors - Various Sites 89.1 96.9 186.0 186.0 Repl	Replace Instrument Transformers - Various Sites	1,146.0	538.4		1,684.4	
Install Transformer On line Gas Monitoring - Various Sites 700.5 975.7 1,676.2 7.75 1,676.2 7.75 7	Perform Grounding Upgrades - Various Sites	1,311.3	345.4		1,656.7	
Replace Disconnect Switches - Various Sites (2014-2015) 815.9 189.5 1,005.4 Design and Install Fire Protection in 230 kV Station - Various Sites 67.6 424.3 491.9 D - 2215 Perform Site Work for Mobile Substation - Barachoix 489.3 489.3 D - 222 Upgrade Terminal Station Protection and Control - Various Sites 172.7 307.2 479.9 D - 228 Upgrade Control Wiring Phase 1 to Terminal Station 1 - Bay d'Espoir 301.0 301.0 D - 228 Install Support Structures C2 Capacitor Bank - Hardwoods 199.3 199.3 E - 57 Replace Surge Arrestors - Various Sites 89.1 96.9 186.0 Replace Optimho Relays on East Coast - Various Sites 89.1 96.9 186.0 Replace Station Lighting - Bay d'Espoir 16.7 160.3 177.0 E - 83 Upgrade Transformer Differential Protection - Grandy Brook 7,057.7 17,007.4 16,386.5 40,451.0 TRANSMISSION Proform Wood Pole Line Management Program - Various Sites 2,830.6 2,830.6 2,830.6 2,179.9 TOTAL TRANSMISSION	Replace Disconnect Switches - Various Sites (2015-2016)		963.7	642.9	1,606.6	C - 46
Design and Install Fire Protection in 230 kV Station - Various Sites 67.6 424.3 491.9 D - 215 Perform Site Work for Mobile Substation - Barachoix 489.3 489.3 0 - 222 Upgrade Terminal Station Protection and Control - Various Sites 302.3 307.2 479.9 D - 228 Upgrade Terminal Station Foundations - Various Sites 302.3 302.3 302.3 0 - 274 Upgrade Control Wiring Phase 1 to Terminal Station 1 - Bay d'Espoir 301.0 301.0 0 - 289 Install Support Structures C2 Capacitor Bank - Hardwoods 199.3 199.3 1 98.1 Replace Surge Arrestors - Various Sites 89.1 96.9 1 86.0 Replace Station Lighting - Bay d'Espoir 16.7 160.3 177.0 E - 88 Upgrade Transformer Differential Protection - Grandy Brook 154.0 154.0 E - 88 TOTAL TERMINAL STATIONS 7,057.7 17,007.4 16,386.5 40,451.0 TOTAL TRANSMISSION 1,191.7 988.2 2,179.9 Post Tribution System - Various Sites (2014-2015) 370.2 4,850.1 5,220.3 Upgrade Distribution Sys	Install Transformer On line Gas Monitoring - Various Sites		700.5	975.7	1,676.2	C - 57
Perform Site Work for Mobile Substation - Barachoix 489.3 489.3 D - 222 Upgrade Terminal Station Protection and Control - Various Sites 172.7 307.2 479.9 D - 228 Upgrade Terminal Station Foundations - Various Sites 302.3 302.3 302.3 D - 228 Upgrade Control Wiring Phase 1 to Terminal Station 1 - Bay d'Espoir 301.0 301.0 190.3 190.3 E - 86 Replace Surge Arrestors - Various Sites 199.3 199.3 E - 87 E - 87 Replace Optimho Relays on East Coast - Various Sites 89.1 96.9 186.0 186.0 Replace Station Lighting - Bay d'Espoir 16.7 160.3 177.0 E - 88 Upgrade Transformer Differential Protection - Grandy Brook 154.0 154.0 E - 88 TOTAL TERMINAL STATIONS 7,057.7 17,007.4 16,386.5 40,451.6 TRANSMISSION Perform Wood Pole Line Management Program - Various Sites 2,830.6 2,830.6 2,830.6 2,179.9 TOTAL TRANSMISSION 1,191.7 988.2 2,179.9 17.0	Replace Disconnect Switches - Various Sites (2014-2015)	815.9	189.5		1,005.4	
Upgrade Terminal Station Protection and Control - Various Sites 172.7 307.2 479.9 D - 28 Upgrade Terminal Station Foundations - Various Sites 302.3 302.3 302.3 0 - 274 Upgrade Control Wiring Phase 1 to Terminal Station 1 - Bay d'Espoir 301.0 301.0 0 - 288 Install Support Structures C2 Capacitor Bank - Hardwoods 199.3 199.3 199.3 Replace Surge Arrestors - Various Sites 89.1 96.9 186.0 Replace Optimho Relays on East Coast - Various Sites 89.1 96.9 186.0 Replace Station Lighting - Bay d'Espoir 16.7 16.03 177.0 E - 83 Upgrade Transformer Differential Protection - Grandy Brook 154.0 154.0 154.0 E - 88 TOTAL TERMINAL STATIONS 7,057.7 17,007.4 16,386.5 40,451.6 E - 88 Perform Wood Pole Line Management Program - Various Sites 2,830.6 2,830.6 2,830.6 2,830.6 2,830.6 2,830.6 2,2179.9 TOTAL TRANSMISSION 1,191.7 3,818.8 0.0 5,010.5 5 DISTRIBUTION <td>Design and Install Fire Protection in 230 kV Station - Various Sites</td> <td></td> <td>67.6</td> <td>424.3</td> <td>491.9</td> <td>D - 215</td>	Design and Install Fire Protection in 230 kV Station - Various Sites		67.6	424.3	491.9	D - 215
Upgrade Terminal Station Foundations - Various Sites 302.3 302.3 0 - 248 Upgrade Control Wiring Phase 1 to Terminal Station 1 - Bay d'Espoir 301.0 301.0 0 - 289 Install Support Structures C2 Capacitor Bank - Hardwoods 199.3 199.3 E - 36 Replace Surge Arrestors - Various Sites 89.1 96.9 186.0 Replace Optimho Relays on East Coast - Various Sites 89.1 16.7 160.3 177.0 E - 83 Replace Station Lighting - Bay d'Espoir 16.7 160.3 177.0 E - 88 Upgrade Transformer Differential Protection - Grandy Brook 7,057.7 17,007.4 16,386.5 40,451.6 TOTAL TERMINAL STATIONS 7,057.7 17,007.4 16,386.5 40,451.6 Perform Wood Pole Line Management Program - Various Sites 2,830.6 2,830.6 2,830.6 Refurbish Anchors and Footings TL202 and TL206 - Bay d'Espoir to Sunnyside 1,191.7 988.2 2,179.9 TOTAL TRANSMISSION 1,191.7 3,818.8 0.0 5,010.5 DISTRIBUTION Provide Service Extensions - All Service Areas 6,080.0 6,080.0 5,	Perform Site Work for Mobile Substation - Barachoix		489.3		489.3	D - 222
Upgrade Control Wiring Phase 1 to Terminal Station 1 - Bay d'Espoir 301.0 301.0 D - 289 Install Support Structures C2 Capacitor Bank - Hardwoods 199.3 199.3 E - 36 Replace Surge Arrestors - Various Sites 198.1 198.1 198.1 E - 57 Replace Optimho Relays on East Coast - Various Sites 89.1 96.9 186.0 180.0 <td< td=""><td>Upgrade Terminal Station Protection and Control - Various Sites</td><td></td><td>172.7</td><td>307.2</td><td>479.9</td><td>D - 228</td></td<>	Upgrade Terminal Station Protection and Control - Various Sites		172.7	307.2	479.9	D - 228
Install Support Structures C2 Capacitor Bank - Hardwoods 199.3 199.3 199.3 199.5 Replace Surge Arrestors - Various Sites 198.1	Upgrade Terminal Station Foundations - Various Sites		302.3		302.3	D - 274
Replace Surge Arrestors - Various Sites 198.1 198.1 198.1 E - 57 Replace Optimho Relays on East Coast - Various Sites 89.1 96.9 186.0	Upgrade Control Wiring Phase 1 to Terminal Station 1 - Bay d'Espoir		301.0		301.0	D - 289
Replace Optimho Relays on East Coast - Various Sites 89.1 96.9 186.0 Replace Station Lighting - Bay d'Espoir 16.7 16.03 177.0 E - 83 Upgrade Transformer Differential Protection - Grandy Brook 154.0 154.0 E - 88 TOTAL TERMINAL STATIONS 7,057.7 17,007.4 16,386.5 40,451.6 TERANSMISSION Perform Wood Pole Line Management Program - Various Sites Refurbish Anchors and Footings TL202 and TL206 - Bay d'Espoir to Sunnyside TOTAL TRANSMISSION 1,191.7 988.2 2,830.6 C - 37 DISTRIBUTION Provide Service Extensions - All Service Areas 6,080.0 6,080.0 5,010.5 Upgrade Distribution System - Various Sites (2014-2015) 370.2 4,850.1 5,220.3 Upgrade Distribution Systems - All Service Areas 3,340.0 3,340.0 C - 33 Upgrade Distribution System - Various Sites (2015-2016) 1,136.1 818.8 1,954.9 C - 39 Construct Second Distribution Feeder - Nain 1,050.3 1,050.3 C - 59 Replace Recloser Control Panels - Various Sites 111.3 84.4 195.7 Relocate Voltage Regulator - Hawkes Bay 166.4	Install Support Structures C2 Capacitor Bank - Hardwoods		199.3		199.3	E - 36
Replace Station Lighting - Bay d'Espoir 16.7 160.3 177.0 E - 83 Upgrade Transformer Differential Protection - Grandy Brook 154.0 154.0 E - 88 TOTAL TERMINAL STATIONS 7,057.7 17,007.4 16,386.5 40,451.6 TRANSMISSION Perform Wood Pole Line Management Program - Various Sites 2,830.6 2,830.6 2,830.6 C - 37 Refurbish Anchors and Footings TL202 and TL206 - Bay d'Espoir to Sunnyside 1,191.7 988.2 2,179.9 2,179.9 TOTAL TRANSMISSION 1,191.7 3,818.8 0.0 5,010.5 5 DISTRIBUTION Provide Service Extensions - All Service Areas 6,080.0 6,080.0 C - 31 Upgrade Distribution System - Various Sites (2014-2015) 370.2 4,850.1 5,220.3 Upgrade Distribution Systems - All Service Areas 3,340.0 3,340.0 C - 33 Upgrade Distribution System - Various Sites (2015-2016) 1,136.1 818.8 1,954.9 C - 39 Construct Second Distribution Feeder - Nain 1,050.3 1,050.3 1,050.3 1,050.3 1,	Replace Surge Arrestors - Various Sites		198.1		198.1	E - 57
Upgrade Transformer Differential Protection - Grandy Brook 154.0 154.0 E - 88 TOTAL TERMINAL STATIONS 7,057.7 17,007.4 16,386.5 40,451.6 TRANSMISSION Perform Wood Pole Line Management Program - Various Sites Refurbish Anchors and Footings TL202 and TL206 - Bay d'Espoir to Sunnyside 1,191.7 988.2 2,830.6 C - 37 Refurbish Anchors and Footings TL202 and TL206 - Bay d'Espoir to Sunnyside TOTAL TRANSMISSION 1,191.7 988.2 2,179.9 DISTRIBUTION TOTAL TRANSMISSION 6,080.0 5,010.5 Provide Service Extensions - All Service Areas 6,080.0 6,080.0 C - 31 Upgrade Distribution System - Various Sites (2014-2015) 370.2 4,850.1 5,220.3 Upgrade Distribution System - Various Sites (2015-2016) 1,136.1 818.8 1,954.9 C - 39 Construct Second Distribution Feeder - Nain 1,050.3 1,050.3 C - 59 Replace Recloser Control Panels - Various Sites 111.3 84.4 195.7 Relocate Voltage Regulator - Hawkes Bay 166.4 166.4 E - 85	Replace Optimho Relays on East Coast - Various Sites	89.1	96.9		186.0	
TOTAL TERMINAL STATIONS 7,057.7 17,007.4 16,386.5 40,451.6 TRANSMISSION Perform Wood Pole Line Management Program - Various Sites Refurbish Anchors and Footings TL202 and TL206 - Bay d'Espoir to Sunnyside 1,191.7 2,830.6 2,830.6 2,830.6 2,179.9 TOTAL TRANSMISSION 1,191.7 988.2 2,179.9 2,179.9 DISTRIBUTION Provide Service Extensions - All Service Areas 6,080.0 6,080.0 C - 31 Upgrade Distribution System - Various Sites (2014-2015) 370.2 4,850.1 5,220.3 Upgrade Distribution System - All Service Areas 3,340.0 3,340.0 C - 33 Upgrade Distribution System - Various Sites (2015-2016) 1,136.1 818.8 1,954.9 C - 39 Construct Second Distribution Feeder - Nain 1,050.3 1,050.3 1,050.3 C - 59 Replace Recloser Control Panels - Various Sites 111.3 84.4 195.7 Relocate Voltage Regulator - Hawkes Bay 166.4 166.4 166.4	Replace Station Lighting - Bay d'Espoir		16.7	160.3	177.0	E - 83
TRANSMISSION Perform Wood Pole Line Management Program - Various Sites 2,830.6 2,830.6 2,830.6 C - 37 Refurbish Anchors and Footings TL202 and TL206 - Bay d'Espoir to Sunnyside 1,191.7 988.2 2,179.9 TOTAL TRANSMISSION 1,191.7 3,818.8 0.0 5,010.5 DISTRIBUTION Provide Service Extensions - All Service Areas Upgrade Distribution System - Various Sites (2014-2015) Upgrade Distribution Systems - All Service Areas Upgrade Distribution Systems - All Service Areas Upgrade Distribution System - Various Sites (2015-2016) Construct Second Distribution Feeder - Nain Replace Recloser Control Panels - Various Sites 111.3 84.4 195.7 Relocate Voltage Regulator - Hawkes Bay 166.4 1	Upgrade Transformer Differential Protection - Grandy Brook		154.0		154.0	E - 88
Perform Wood Pole Line Management Program - Various Sites 2,830.6 2,830.6 C - 37 Refurbish Anchors and Footings TL202 and TL206 - Bay d'Espoir to Sunnyside 1,191.7 988.2 2,179.9 TOTAL TRANSMISSION 1,191.7 3,818.8 0.0 5,010.5 DISTRIBUTION Provide Service Extensions - All Service Areas 6,080.0 6,080.0 C - 31 Upgrade Distribution System - Various Sites (2014-2015) 370.2 4,850.1 5,220.3 Upgrade Distribution Systems - All Service Areas 3,340.0 3,340.0 2.33 Upgrade Distribution System - Various Sites (2015-2016) 1,136.1 818.8 1,954.9 C - 39 Construct Second Distribution Feeder - Nain 1,050.3 1,050.3 C - 59 Replace Recloser Control Panels - Various Sites 111.3 84.4 195.7 Relocate Voltage Regulator - Hawkes Bay 166.4 166.4 E - 85	TOTAL TERMINAL STATIONS	7,057.7	17,007.4	16,386.5	40,451.6	
Perform Wood Pole Line Management Program - Various Sites 2,830.6 2,830.6 C - 37 Refurbish Anchors and Footings TL202 and TL206 - Bay d'Espoir to Sunnyside 1,191.7 988.2 2,179.9 TOTAL TRANSMISSION 1,191.7 3,818.8 0.0 5,010.5 DISTRIBUTION Provide Service Extensions - All Service Areas 6,080.0 6,080.0 C - 31 Upgrade Distribution System - Various Sites (2014-2015) 370.2 4,850.1 5,220.3 Upgrade Distribution Systems - All Service Areas 3,340.0 3,340.0 2.33 Upgrade Distribution System - Various Sites (2015-2016) 1,136.1 818.8 1,954.9 C - 39 Construct Second Distribution Feeder - Nain 1,050.3 1,050.3 C - 59 Replace Recloser Control Panels - Various Sites 111.3 84.4 195.7 Relocate Voltage Regulator - Hawkes Bay 166.4 166.4 E - 85	TDANISMISSION					
Refurbish Anchors and Footings TL202 and TL206 - Bay d'Espoir to Sunnyside 1,191.7 988.2 2,179.9 TOTAL TRANSMISSION DISTRIBUTION Provide Service Extensions - All Service Areas 6,080.0 6,080.0 C - 31 Upgrade Distribution System - Various Sites (2014-2015) 370.2 4,850.1 5,220.3 Upgrade Distribution Systems - All Service Areas 3,340.0 3,340.0 C - 33 Upgrade Distribution System - Various Sites (2015-2016) 1,136.1 818.8 1,954.9 C - 39 Construct Second Distribution Feeder - Nain 1,050.3 1,050.3 C - 59 Replace Recloser Control Panels - Various Sites 111.3 84.4 195.7 Relocate Voltage Regulator - Hawkes Bay 166.4 166.4 E - 85			2 920 6		2 920 6	C 27
DISTRIBUTION 1,191.7 3,818.8 0.0 5,010.5 Provide Service Extensions - All Service Areas 6,080.0 6,080.0 C - 31 Upgrade Distribution System - Various Sites (2014-2015) 370.2 4,850.1 5,220.3 Upgrade Distribution Systems - All Service Areas 3,340.0 3,340.0 C - 33 Upgrade Distribution System - Various Sites (2015-2016) 1,136.1 818.8 1,954.9 C - 39 Construct Second Distribution Feeder - Nain 1,050.3 1,050.3 C - 59 Replace Recloser Control Panels - Various Sites 111.3 84.4 195.7 Relocate Voltage Regulator - Hawkes Bay 166.4 166.4 E - 85		1 101 7	•		•	C - 37
DISTRIBUTION C - 31 Provide Service Extensions - All Service Areas 6,080.0 6,080.0 C - 31 Upgrade Distribution System - Various Sites (2014-2015) 370.2 4,850.1 5,220.3 Upgrade Distribution Systems - All Service Areas 3,340.0 3,340.0 C - 33 Upgrade Distribution System - Various Sites (2015-2016) 1,136.1 818.8 1,954.9 C - 39 Construct Second Distribution Feeder - Nain 1,050.3 1,050.3 C - 59 Replace Recloser Control Panels - Various Sites 111.3 84.4 195.7 Relocate Voltage Regulator - Hawkes Bay 166.4 166.4 E - 85	, , ,			0.0	-	-
Provide Service Extensions - All Service Areas 6,080.0 6,080.0 C - 31 Upgrade Distribution System - Various Sites (2014-2015) 370.2 4,850.1 5,220.3 Upgrade Distribution Systems - All Service Areas 3,340.0 3,340.0 C - 33 Upgrade Distribution System - Various Sites (2015-2016) 1,136.1 818.8 1,954.9 C - 39 Construct Second Distribution Feeder - Nain 1,050.3 1,050.3 C - 59 Replace Recloser Control Panels - Various Sites 111.3 84.4 195.7 Relocate Voltage Regulator - Hawkes Bay 166.4 166.4 E - 85	TOTAL MANUSCON	1,131.7	3,010.0	0.0	3,010.3	
Upgrade Distribution System - Various Sites (2014-2015) 370.2 4,850.1 5,220.3 Upgrade Distribution Systems - All Service Areas 3,340.0 3,340.0 C - 33 Upgrade Distribution System - Various Sites (2015-2016) 1,136.1 818.8 1,954.9 C - 39 Construct Second Distribution Feeder - Nain 1,050.3 1,050.3 C - 59 Replace Recloser Control Panels - Various Sites 111.3 84.4 195.7 Relocate Voltage Regulator - Hawkes Bay 166.4 166.4 E - 85	DISTRIBUTION					
Upgrade Distribution Systems - All Service Areas 3,340.0 3,340.0 C - 33 Upgrade Distribution System - Various Sites (2015-2016) 1,136.1 818.8 1,954.9 C - 39 Construct Second Distribution Feeder - Nain 1,050.3 1,050.3 C - 59 Replace Recloser Control Panels - Various Sites 111.3 84.4 195.7 Relocate Voltage Regulator - Hawkes Bay 166.4 166.4 E - 85	Provide Service Extensions - All Service Areas		6,080.0		6,080.0	C - 31
Upgrade Distribution System - Various Sites (2015-2016)1,136.1818.81,954.9C - 39Construct Second Distribution Feeder - Nain1,050.31,050.3C - 59Replace Recloser Control Panels - Various Sites111.384.4195.7Relocate Voltage Regulator - Hawkes Bay166.4166.4E - 85	Upgrade Distribution System - Various Sites (2014-2015)	370.2	4,850.1		5,220.3	
Construct Second Distribution Feeder - Nain1,050.31,050.3C - 59Replace Recloser Control Panels - Various Sites111.384.4195.7Relocate Voltage Regulator - Hawkes Bay166.4166.4E - 85	Upgrade Distribution Systems - All Service Areas		3,340.0		3,340.0	C - 33
Replace Recloser Control Panels - Various Sites111.384.4195.7Relocate Voltage Regulator - Hawkes Bay166.4166.4E - 85	Upgrade Distribution System - Various Sites (2015-2016)		1,136.1	818.8	1,954.9	C - 39
Relocate Voltage Regulator - Hawkes Bay <u>166.4</u> E - 85	Construct Second Distribution Feeder - Nain		1,050.3		1,050.3	C - 59
	Replace Recloser Control Panels - Various Sites	111.3	84.4		195.7	
TOTAL DISTRIBUTION 481.5 16,707.3 818.8 18,007.6	Relocate Voltage Regulator - Hawkes Bay		166.4		166.4	E - 85
	TOTAL DISTRIBUTION	481.5	16,707.3	818.8	18,007.6	•

	Expended		Future		Page
PROJECT DESCRIPTION	to 2014	2015	Years	Total	Ref
			(\$000)		
GENERATION					
Perform Arc Flash Remediation - Various Sites	1,602.6	413.1		2,015.7	
Inspect Fuel Storage Tanks - Various Sites		1,761.1		1,761.1	
Increase Fuel Storage - Rigolet		1,666.8		1,666.8	
Install Fire Protection - L'Anse Au Loup		220.6	1,126.2	1,346.8	
Replace Unit 2038 - Mary's Harbour		103.5	1,241.5	1,345.0	C - 53
Overhaul Diesel Units - Various Sites		1,199.2		1,199.2	C - 55
Install Fire Protection System - Nain	107.1	892.2		999.3	
Replace Programmable Logic Controllers - Various Sites		366.9	591.1	958.0	C - 63
Upgrade Diesel Plant Production Data Collection Equipment - Various Sites	268.9	269.8	280.7	819.4	
Replace Unit 254 - Paradise River		66.8	429.3	496.1	D - 177
Upgrade Ventilation Systems - Various Sites		175.9	317.3	493.2	D - 189
Upgrade Building Exterior - Makkovik		309.5		309.5	D - 252
Increase Generation Capacity - Makkovik		272.6		272.6	D - 295
Install Disconnect Switches for Mobile Generators - Various Sites		10.0	189.3	199.3	E - 39
TOTAL GENERATION	1,978.6	7,728.0	4,175.4	13,882.0	•
PROPERTIES				4 == 0 0	
Replace Accommodations and Septic System - Ebbegunbaeg		489.4	1,061.4	1,550.8	
Upgrade Line Depots - Various Sites		953.3			C - 65
Install Additional Washrooms - Various Sites		259.3			D - 313
Install Fall Protection Equipment - Various Sites		198.9	40.2		E - 41
Legal Survey of Primary Distribution Line Right of Ways - Various Sites (2015-2016)	456.0	158.6	40.3		E - 52
Legal Survey of Primary Distribution Line Right of Ways - Various Sites (2014-2015)	156.8	40.3		197.1	F 00
Upgrade HVAC System - Port Saunders		137.0		137.0	
Reshingle Roof - Stephenville TOTAL PROPERTIES	156.8	76.8 2,313.6	1,101.7	3,572.1	E - 105
IOTAL PROPERTIES	150.8	2,313.0	1,101.7	3,372.1	•
METERING					
Install Automated Meter Reading - Various Sites (2015-2016)		559.9	401.8		C - 61
Install Automated Meter Reading - Various Sites (2014-2015)	356.9	340.2		697.1	
Purchase Meters, Equipment and Metering Tanks - Various Sites	-	196.2		196.2	E - 64
TOTAL METERING	356.9	1,096.3	401.8	1,855.0	=
TOOLS AND EQUIPMENT					
Purchase Tools & Equipment Less than \$50,000 - Various Sites		622.7		622.7	
Replace Light Duty Mobile Equipment - Various Sites		494.4		494.4	D - 184
Replace Off Road Track Vehicle Unit 7861 - Stephenville		1.1	397.8	398.9	D - 248
TOTAL TOOLS AND EQUIPMENT		1,118.2	397.8	1,516.0	
TOTAL TRANSMISSION AND RURAL OPERATIONS	11,223.2	49,789.6	23,282.0	84,294.8	

	Expended		Future		Page
PROJECT DESCRIPTION	to 2014	2015	Years	Total	Ref
	-		(\$000)		
INFORMATION SYSTEMS					
SOFTWARE APPLICATIONS					
New Infrastructure					
Perform Minor Application Enhancements - Hydro Place		329.5		329.5	E - 112
Cost Recoveries		(141.6)		(141.6)	
Upgrade of Technology					
Upgrade Microsoft Office Products - Hydro Place	1,111.8	465.2		1,577.0	
Cost Recoveries	(400.2)	(167.5)		(567.7)	
Upgrade Lotus Notes - Hydro Place		635.4		635.4	D - 327
Cost Recoveries		(273.1)		(273.1)	
Upgrade Energy Management System - Hydro Place		194.9		194.9	E - 107
Replace Customer Care System - Hydro Place		134.9		134.9	E - 116
TOTAL SOFTWARE APPLICATIONS	711.6	1,177.7		1,889.3	
COMPUTER OPERATIONS					•
Infrastructure Replacement					
Replace Personal Computers - Various Sites		573.3		573.3	C - 71
Upgrade Enterprise Storage Capacity - Hydro Place		621.3		621.3	D - 341
Cost Recoveries		(267.0)		(267.0)	
Replace Peripheral Infrastructure - Various Sites		200.5		200.5	D - 346
Upgrade of Technology					
Upgrade Server Technology Program - Hydro Place		601.3		601.3	D - 322
Cost Recoveries		(227.1)		(227.1)	
TOTAL COMPUTER OPERATIONS		1,502.3		1,502.3	•
TOTAL INFORMATION SYSTEMS	711.6	2,680.0		3,391.6	: !

PROJECT DESCRIPTION	Expended to 2014	2015	Future Years (\$000)	Total	Page Ref
TELECONTROL			(3000)		
NETWORK SERVICES					
Infrastructure Replacement					
Purchase Tools and Equipment Less than \$50,000		45.6		45.6	
Network Infrastructure					
Replace Battery Banks and Chargers - Various Sites	267.0	398.0		665.0	
Replace Network Communications Equipment - Hydro Place		169.5		169.5	E - 114
Upgrade of Technology					
Upgrade IP SCADA Network - Various Sites	254.2	238.7		492.9	
Replace Telephone System - Springdale		132.7		132.7	E - 118
Replace WIFI Access Points - Various Sites		126.3		126.3	E - 120
Replace GDC Metroplex - Various Sites		69.2		69.2	E - 122
Upgrade Site Facilities - Various Sites		48.3		48.3	
Replace DTI Phone Turrets Energy Control Center - Hydro Place		44.7		44.7	
TOTAL TELECONTROL	521.2	1,273.0		1,794.2	
TRANSPORTATION					
Replace Vehicles and Aerial Devices - Various Sites (2014-2015)	1,809.1	1,091.0		2,900.1	
Replace Vehicles and Aerial Devices - Various Sites (2015-2016)		2,377.1	225.3	2,602.4	C - 67
TOTAL TRANSPORTATION	1,809.1	3,468.1	225.3	5,502.5	
ADMINISTRATION.					
Replace Roof - Hydro Place		671.9		671.9	C - 69
Replace Cooling Tower and Auxiliaries - Hydro Place		45.7	311.3	357.0	D - 330
Remove Safety Hazards - Various Sites		194.9		194.9	E - 109
Purchase Office Equipment		68.0		68.0	_
TOTAL ADMINISTRATION		980.5	311.3	1,291.8	•
TOTAL GENERAL PROPERTIES	3,041.9	8,401.6	536.6	11,980.1	<u>.</u>