

1 Q. Re 2011 Capital Plan Section, pages 22 -23, "Holyrood Projects in a No Infeed

2 Scenario:

3 With reference to the table of estimated expenditures at pp. 22-23 of the "2011

4 Capital Plan" section and Appendix B to that section, provide a breakdown of those

5 expenditures which identifies, project by project and year by year, the projects and

6 dollar amounts estimated to be incurred if the Lower Churchill project with Island

7 Infeed is sanctioned with a commissioning and operations timeframe of

8 2015/2016?

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11 A. A breakdown of those expenditures which identifies, project by project and year by

12 year, the projects and dollar amounts estimated to be incurred if the Lower

13 Churchill project with Island Infeed is sanctioned with a commissioning and

14 operations timeframe of 2015/2016 is provided in the attached table.

IC-NLH-10
NLH 2011 Capital Budget Application

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PROJECT DESCRIPTION (\$,000)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	TOTAL
THERMAL PLANTS																
1 HRD Rewind Generator Unit 2 and 3	2,000			2,000	2,000											
2 HRD Upgrade Turbine/Generator Tubing Unit 3				450												
3 HRD Upgrade Cooling Water System Travelling Screens Unit 2			250													
4 HRD Upgrade Cooling Water System Wet Well Stop Log Unit 2 and 3		300			300											
5 HRD Upgrade Cooling Water System Pump and Butterfly Valve Unit 2 and 3					300				300							
6 HRD Replace Air Preheat Rotary Air Dryer Unit 2 and 3																
7 HRD Replace Warm Air Makeup Louvres, Valves and Controls Unit 1, 2 and 3							700									
8 HRD Replace Transformer Unit 1, 2 and 3																
9 HRD Replace Lube Oil System Seal Oil Skids Unit 2 and 3		750		750												
10 HRD Convert Unit to Synchronous Condensing System Unit 1		1,500														
11 HRD Convert Unit to Synchronous Condensing System Unit 2	1,500															
12 HRD Removal of Redundant Equipment (Boiler, Turbine, Stack, Auxiliaries) Unit 1							1,000	1,000								
13 HRD Removal of Redundant Equipment (Boiler, Turbine, Stack, Auxiliaries) Unit 2							1,000	1,000								
14 HRD Removal of Redundant Equipment (Boiler, Turbine, Stack, Auxiliaries) Unit 3							1,000	1,000								
15 HRD Upgrade Stage I Pumphouse Building Siding and Doors								350								
16 HRD Upgrade Stage II Pumphouse Building Siding and Doors								350								
17 HRD Upgrade Powerhouse Door and Siding							100	100	100	100	100	100	100	100		
18 HRD Replace Powerhouse Roof							400	400	400	400	400	400	400	400		
19 HRD Upgrade Powerhouse Space Heating and Lighting							100	100	100	100	100	100	100	100	100	
20 HRD Upgrade Powerhouse Ventilation and A/C											300	300		300		
21 HRD Replace Fencing Around Property											50	50				
22 HRD Replace Paving							50		50		50		50			
23 HRD Upgrade Fire Protection Sprinkler System			250				250			250		250				
24 HRD Replace Diesel Pump																
25 HRD Replace Compressor and Dryer		200				200										
26 HRD Replace Compressor Only				150	150											
27 HRD Upgrade Waste Water Treatment Building Siding and Doors		250														
28 HRD Upgrade Raw Water System Quarry Dam and Underground Piping			500													
29 HRD Replace General Service Cooling Water System Heat Exchanger	200															
30 HRD Replace General Service Cooling Water System Seal Pits Concrete Structure		200														
31 HRD Replace General Service Cooling Water System Pumps and Strainers							150									
32 HRD Upgrade H2 and CO2 Systems Storage Building								75								
33 HRD Replace Pipe Storage Building Siding and Doors							250									
34 HRD Replace Training Center Building Siding and Doors							250									
35 HRD Replace Main Warehouse Building Siding and Doors									300							
36 HRD Upgrade Electrical MCC	1,000	1,000	1,000	1,000	1,000	1,000										
37 HRD Replace DCS			750	750	1,500								1,500	1,500		
38 HRD Replace DC Voltage System						1,500	500									
39 HRD Remove and Decommission Common Electrical and Mechanical Equipment						1,000										
40 HRD Remove Boiler House Building										2,000	2,000	2,000				
41 HRD Remove Fuel Storage Tank							1,000	1,000	1,000							
42 HRD Remove Marine Terminal															1,500	
43 HRD Secure Land Fill and Soil Remediation												1,500	1,500			
TOTAL THERMAL PLANT	4,700	4,200	2,750	5,100	5,250	3,700	6,750	5,300	2,325	2,850	3,000	4,700	3,650	3,900	0	58,175