1	Q.	Re 2011 Capital Plan - Individual Capital Projects:		
2		Project B-10, Upgrade Hydrogen System-Holyrood: Provide details and all		
3		underlying assumptions with respect to the cost benefit analysis of this project,		
4		including particulars of what work would be done under the alternative upgrade		
5		without electrolyzer and bulk storage.		
6				
7				
8	A.	The following assumptions were made with respect to the cost benefit analysis of		
9		the project:		
10				
11		Study Assumptions		
12		Present Worth Year:	2010*	
13		Number of Years in Study:	20	
14		Discount Rate:	8%	
15		*Costs accrued at year end.		
16				
17		Cost Assumptions with Electrolizer Installation		
18		Capital Costs:	2011 - \$1,191,900	
19			2012 - \$ 800,400	
20		Maintenance Costs:	\$2,500 per year, escalated using Nalcor's 2010	
21		Inflation and Escalation Forecast		
22				
23		Cost Assumptions without Electrolizer Installation		
24		Capital Costs:	2011 - \$771,600	
25			2012 - \$726,600	
26		Maintenance Costs:	\$3,000 per year, escalated using Nalcor's 2010	
27		Inflation and Escalation Forecas	t	

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1	Hydrogen Gas Costs:	\$60,100 per year based upon historical costs,	
2	escalated using Nalcor's 2010	escalated using Nalcor's 2010 Inflation and Escalation Forecast.	
3			
4			
5	The scope of work for both alter	natives will include the installation of new	
6	hydrogen control panels, piping I	replacement, relocation of manual control valves	
7	on all three units, and the installa	ation of automatic emergency vent valves on Units	
8	2 and 3. However, the least cost	alternative as determined by the cost benefit	
9	analysis will also include the insta	allation of an electrolyzer and low pressure bulk	
10	storage system.		