

1 Q. C-6: Install Variable Frequency Drives on Forced Draft Fans, Holyrood; 2013:  
2 \$697,600; 2014: \$2,659,700  
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4 In the report entitled: Install Variable Frequency Drives on Six Forced Draft Fans,  
5 located in Volume I, Tab 2, Hydro states, in the Summary, p. i, that:

6 *"This project will yield an annual savings of \$2.2 million while the Holyrood*  
7 *plant is generating electricity when compared to the status quo of constant*  
8 *speed fan motors."*

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10 On p. 8 of the same report Hydro states that:

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12 *"Once operational the VFDs will yield an average annual fuel savings of \$4.7*  
13 *million to Hydro while the Holyrood Thermal Plant is generating electricity."*

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15 These numbers are also found in other sections of the report.

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17 Please explain the relationship between the \$2.2 million shown on p. i and the \$4.7  
18 million shown on p. 8, and show why they are different.

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21 A. The Table below provides the calculations for both the \$2.2 million and \$4.7 million  
22 referenced in the report. The \$2.2 million is the average of the cumulative net  
23 present value for 2015 and 2016 while the \$4.7 million represents the average  
24 nominal fuel savings for the same timeframe.

	Status Quo Fuel	VFD Fuel	Savings	Average	Status Quo O&M	VFD O&M	Savings	Cost of VFD	Total Savings	Average
2012	0	0	0		0	0	0	0	0	
2013	0	0	0		0	0	0	0	0	
2014	0	0	0		0	0	0	0	0	
2015	6,280	1,605	4,675		0	0	0	3,357	1,317	
2016	7,653	2,981	4,671	4,700	44	33	11		4,682	3,000
NPV	10,247	3,350	6,897	0	31	23	8	2,561	4,343	2,200