

1 Q. Reference: Hydro's Reply, page 7, lines 8-17. Please provide the source documents
2 and calculation of the Holyrood Unit 1 supply costs for January 5, 2014 of \$477,647
3 related to the unit vibration issues on restart.

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6 A. Please refer to PR-PUB-NLH-189 Attachment 1. For an explanation of the
7 calculations used, please see Hydro's response to PR-PUB-NLH-187.

		HRD 1	HRD 2	HRD 3	HWD	SVL	GCL	Exploits	USL	CAT	STA	HBV	HLK	BDE 5	BDE 6	Total Unavailable	Interval Costs	Unit 1 Vibration Related - January 5 only
04-Jan-14 23:45:00	05-Jan-14 00:00:00	165	0	150	50	25	8	24								422	11819.876	
05-Jan-14 00:00:00	05-Jan-14 00:15:00	165	0	150	50	25	8	24								422	11810.78	4617.95907
05-Jan-14 00:15:00	05-Jan-14 00:30:00	165	0	150	50	25	8	24								422	11819.894	4621.52245
05-Jan-14 00:30:00	05-Jan-14 00:45:00	165	0	150	50	25	8	24								422	11811.083	4618.0776
05-Jan-14 00:45:00	05-Jan-14 01:00:00	165	0	150	50	25	8	24								422	11820.528	4621.77061
05-Jan-14 01:00:00	05-Jan-14 01:15:00	165	0	150	50	25	8	24								422	11820.442	4621.73678
05-Jan-14 01:15:00	05-Jan-14 01:30:00	165	0	150	50	25	8	24								422	11802.748	4614.81862
05-Jan-14 01:30:00	05-Jan-14 01:45:00	165	0	100	50	25	8	24								372	11813.751	5239.97013
05-Jan-14 01:45:00	05-Jan-14 02:00:00	165	0	100	50	25	8	24								372	12414.169	5506.28484
05-Jan-14 02:00:00	05-Jan-14 02:15:00	165	0	100	50	25	8	24								372	12234.436	5426.56419
05-Jan-14 02:15:00	05-Jan-14 02:30:00	165	0	100	50	25	8	24								372	12177.295	5401.21973
05-Jan-14 02:30:00	05-Jan-14 02:45:00	165	0	100	50	25	8	24								372	12190.001	5406.85522
05-Jan-14 02:45:00	05-Jan-14 03:00:00	165	0	100	50	25	8	24								372	12205.082	5413.54442
05-Jan-14 03:00:00	05-Jan-14 03:15:00	165	0	100	50	25	8	24								372	12189.384	5406.5818
05-Jan-14 03:15:00	05-Jan-14 03:30:00	165	0	100	50	25	8	24								372	12214.114	5417.5504
05-Jan-14 03:30:00	05-Jan-14 03:45:00	165	0	100	50	25	8	24								372	12220.341	5420.31242
05-Jan-14 03:45:00	05-Jan-14 04:00:00	165	0	100	50	25	8	24								372	12214.119	5417.55296
05-Jan-14 04:00:00	05-Jan-14 04:15:00	165	0	100	50	25	8	24								372	12244.723	5431.12704
05-Jan-14 04:15:00	05-Jan-14 04:30:00	165	0	100	50	25	8	24								372	12236.221	5427.35611
05-Jan-14 04:30:00	05-Jan-14 04:45:00	165	0	100	50	25	8	24								372	12214.813	5417.8608
05-Jan-14 04:45:00	05-Jan-14 05:00:00	165	0	100	50	25	8	24								372	12205.422	5413.69546
05-Jan-14 05:00:00	05-Jan-14 05:15:00	165	0	100	50	25	8	24								372	12231.907	5425.44278
05-Jan-14 05:15:00	05-Jan-14 05:30:00	165	0	100	50	25	8	24								372	12220.332	5420.30851
05-Jan-14 05:30:00	05-Jan-14 05:45:00	165	0	100	50	25	8	24								372	12210.467	5415.93293
05-Jan-14 05:45:00	05-Jan-14 06:00:00	165	0	100	50	25	8	24								372	12203.211	5412.71442
05-Jan-14 06:00:00	05-Jan-14 06:15:00	165	0	100	50	25	8	24								372	12208.298	5414.97099
05-Jan-14 06:15:00	05-Jan-14 06:30:00	165	0	100	50	25	8	24								372	12222.786	5421.3971
05-Jan-14 06:30:00	05-Jan-14 06:45:00	165	0	100	50	25	8	24								372	12227.777	5423.61095
05-Jan-14 06:45:00	05-Jan-14 07:00:00	165	0	100	50	25	8	24								372	12215.706	5418.2566
05-Jan-14 07:00:00	05-Jan-14 07:15:00	165	0	100	50	25	8	24								372	12199.382	5411.01629
05-Jan-14 07:15:00	05-Jan-14 07:30:00	165	0	100	50	25	8	24								372	12240.885	5429.42475
05-Jan-14 07:30:00	05-Jan-14 07:45:00	165	0	100	50	25	8	24								372	12357.069	5480.95795
05-Jan-14 07:45:00	05-Jan-14 08:00:00	165	0	100	50	25	8	24								372	12358.897	5481.76878
05-Jan-14 08:00:00	05-Jan-14 08:15:00	165	0	100	50	25	8	26								374	12421.299	5479.98481
05-Jan-14 08:15:00	05-Jan-14 08:30:00	165	0	100	50	25	8	26								374	12532.936	5529.23644
05-Jan-14 08:30:00	05-Jan-14 08:45:00	165	0	100	50	25	8	26								374	12589.496	5554.18945
05-Jan-14 08:45:00	05-Jan-14 09:00:00	165	0	100	50	25	8	26								374	12662.337	5586.3253
05-Jan-14 09:00:00	05-Jan-14 09:15:00	165	0	100	50	25	8	26								374	12647.062	5579.58604
05-Jan-14 09:15:00	05-Jan-14 09:30:00	165	0	100	50	25	8	26								374	12681.139	5594.62032
05-Jan-14 09:30:00	05-Jan-14 09:45:00	165	0	100	50	25	8	26								374	12569.178	5545.22547
05-Jan-14 09:45:00	05-Jan-14 10:00:00	165	0	100	50	25	8	26								374	12546.925	5535.4079
05-Jan-14 10:00:00	05-Jan-14 10:15:00	165	0	100	50	25	8	26								374	12653.501	5582.42672
05-Jan-14 10:15:00	05-Jan-14 10:30:00	165	0	100	50	25	8	26								374	12653.735	5582.53009
05-Jan-14 10:30:00	05-Jan-14 10:45:00	165	0	100	50	25	8	26								374	12513.284	5520.56626
05-Jan-14 10:45:00	05-Jan-14 11:00:00	165	0	100	50	25	8	26								374	12510.996	5519.55717
05-Jan-14 11:00:00	05-Jan-14 11:15:00	165	0	100	50	25	8	26								374	12583.03	5551.33678
05-Jan-14 11:15:00	05-Jan-14 11:30:00	165	0	100	50	25	8	26								374	12628.131	5571.23447
05-Jan-14 11:30:00	05-Jan-14 11:45:00	165	0	100	50	25	0	26								366	12714.095	5731.76397
05-Jan-14 11:45:00	05-Jan-14 12:00:00	165	0	100	50	25	0	26								366	12690.57	5721.15868
05-Jan-14 12:00:00	05-Jan-14 12:15:00	165	0	100	50	25	0	26								366	12695.45	5723.35869
05-Jan-14 12:15:00	05-Jan-14 12:30:00	165	0	100	50	25	0	26								366	12725.585	5736.944
05-Jan-14 12:30:00	05-Jan-14 12:45:00	165	0	100	50	25	0	26								366	12655.766	5705.46837
05-Jan-14 12:45:00	05-Jan-14 13:00:00	165	0	100	50	25	0	26								366	12642.063	5699.29065
05-Jan-14 13:00:00	05-Jan-14 13:15:00	165	0	100	50	25	0	26								366	12630.863	5694.24152
05-Jan-14 13:15:00	05-Jan-14 13:30:00	165	0	100	50	25	0	26								366	12609.061	5684.41256
05-Jan-14 13:30:00	05-Jan-14 13:45:00	165	0	100	50	25	0	26								366	12488.521	5630.07114
05-Jan-14 13:45:00	05-Jan-14 14:00:00	165	0	100	50	25	0	26								366	12531.733	5649.55189
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05-Jan-14 16:45:00	05-Jan-14 17:00:00	165	0	100	50	25	0	26								366	12515.113	5642.05911
05-Jan-14 17:00:00	05-Jan-14 17:15:00	165	0	100	50	25	0	26								366	12530.945	5649.19645
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05-Jan-14 17:30:00	05-Jan-14 17:45:00	165	0	100	50	25	0	26								366	13505.962	6088.75323
05-Jan-14 17:45:00	05-Jan-14 18:00:00	165	0	100	50	25	0	26								366	13495.884	6084.20978
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05-Jan-14 18:30:00	05-Jan-14 18:45:00	165	0	100	50	25	0	26								366	13690.967	6172.15727
05-Jan-14 18:45:00	05-Jan-14 19:00:00	165	0	100	50	25	0	26								366	13600.97	