

**YUKON
ENERGY**



YUKON ENERGY CORPORATION

2012/2013 GENERAL RATE APPLICATION
REVISED ROUND 1 INTERROGATORY RESPONSES FILED

September 13, 2012

**Utilities Consumers' Group
(UCG)**

1 **TOPIC:**

2
3 **REFERENCE: May 30, 2012 Summary and Overview Presentation, Slide 6**

4
5 YEC states that this application represents “*Yukon Energy's first requested*
6 *increase in firm retail rates since 1998/99 rate review after closure of Faro mine*”.

7
8 **PREAMBLE:**

9
10 **QUESTION:**

- 11
12 a) Please confirm that the February 19, 2010 joint Phase II application by YEC and
13 YECL requested (i) elimination of the general purpose Rate Riders (Riders J and
14 R) from customer bills; and (ii) adjustments to retail base rates to fully reflect
15 approved 2009 costs.
- 16
17 b) Please confirm that the bills of Yukon ratepayers have continued to change since
18 1997 due to the reliance by YEC and YECL on across-the-board percentage rate
19 riders (e.g., Riders F, J and R) to recover approved rate revenue requirements
20 and changes to fuel costs beyond what was provided by 1997 base rates.
- 21
22 c) Please provide calculations of the total bill (including all riders, rate relief, and
23 taxes) for a residential customer living in Whitehorse using 1000 kWh, 1200 kWh
24 and 1400 kWh per month in January 1997, January 1998, January 1999, January
25 2000, January 2001, January 2002, January 2003, January 2004, January 2005,
26 January 2006, January 2007, January 2008, January 2009, January 2010,
27 January 2011, January 2012, July 2012 and January 2013 assuming that the
28 2012 and 2013 rate adjustments proposed by YEC are approved. Please provide
29 details of the bill calculations and indicate overall percentage changes in the total
30 bill for each year.

31
32 **ANSWER:**

33
34 **(a)**

35
36 Confirmed. Adjustments to rates were implemented on a revenue neutral basis, by utility
37 and by class.

1 (b)

2
3 Generally confirmed, however note specifics below:
4

- 5 1) Yukon Energy's previous Rider J, which was a component of YEC's revenue
6 requirement collection, was not increased following 1999 (it was decreased at
7 times, such as 2003).
8
- 9 2) The previous Rider R was a YECL rider to recover YECL's rate increases in their
10 2008/09 GRA.
11
- 12 3) Rider F is an adjustment made from time-to-time solely related to the flow-
13 through of diesel fuel price changes. When implemented it is a not a component
14 of paying for YEC's changing basic costs of providing power, but solely related to
15 world fuel price variability. Please see LE-YEC-1-1(g).
16

17 (c)

18
19 Please see tables 1 through 3 below for Whitehorse Residential monthly bills for January
20 2009, January 2010, January 2011, January 2012, July 2012 and January 2013 for
21 1,000 KW.h, 1,200 KW.h and 1,400 KW.h monthly consumption.
22

23 Attachment 1 attached is a graph prepared as part of the 2009 Phase II proceeding
24 showing each change in residential non-government rates and rate relief since 1987.
25 The requested detailed information for 1997-2008 was available to be reviewed as part
26 of the previous GRAs and is not readily compiled or directly relevant to the current
27 revenue requirement proceeding for the 2012/13 test years.
28

29 The full bill (including GST) before government rate relief in December 1999 (the last
30 time Yukon Energy's rate was increased) was \$129 for 1000 kW.h of usage.
31

32 (c) Revised Response

33
34 As directed by Order 2012-08, this response has been expanded to allow for testing of
35 the assertion that "Yukon Energy's first requested increase in firm rates since 1998/99
36 rate review after closure of Faro mine." Please see Attachment 1 to this response for
37 Whitehorse residential customer total bill calculations for 1,000 kW.h, 1,200 kW.h and

1 1,400 kW.h usage in January 1997, January 1998, January 1999, January 2000,
2 January 2001, January 2002, January 2003, January 2004, January 2005, January
3 2006, January 2007, January 2008, January 2009, January 2010, January 2011,
4 January 2012, July 2012 and January 2013.

5
6 To test the referenced statement, the relevant portion of the attached bill calculations is
7 the total rate charge excluding items not controlled by YEC (e.g., rate relief from Yukon
8 Government [Energy charge relief, RSF, IER] or the YUB [DCF], income tax rebate, and
9 GST), and Rider F charges (which are not part of firm rates that YEC applies to the
10 Board for approval). This relevant firm retail rate charge is shown in row 9A in the
11 attached bill calculations (Total Rate Charge excluding Rider F).

12
13 The attached bill calculations for row 9A using 1,000 kW.h, 1,200 kW.h and 1,400 kW.h
14 per month confirm that this bill did not increase above the January 2000 level (after final
15 Faro mine rate rider increase) prior to the current GRA, other than to reflect 2008/09
16 YECL-related rate increases. This is demonstrated below using 1,000 kW.h per month.

- 17
- 18 • The attached bill calculation for row 9A shows that unsubsidized bill excluding
19 Rider F for 1,000 kW.h usage in January 2000, following the final increase in
20 retail firm rates approved by the Board after the Faro mine closure, was \$131.21.
21
 - 22 • After January 2000, row 9A does not show any increase to this charge until
23 January 2010 and January 2011, when it was \$135.90 with YECL's Rider R at
24 10.53%; absent this YECL Rider R, which YEC does not control, the row 9A bill
25 would have been \$124.37, i.e. lower than January 2000 rate charge.
26
 - 27 • The row 9A charge for January 2012 at \$136.05 reflects inclusion of the YECL-
28 related rate increases from the 2009 GRA, without allowing these increases to be
29 isolated, i.e., this number cannot be used on its own to test the referenced
30 statement. However, it is a matter of record that the YEC revenue requirement as
31 approved by the Board for 2009 resulted in a reduction, rather than an increase,
32 in firm retail rates.
33

34 Please note in Attachment 1 the bill calculation for January 2013 uses Rider F effective
35 October 1, 2012 based on YEC and YECL's September 5, 2012 Change Advisory letter
36 to Yukon Utilities Board and Income tax rebate calculations are corrected for July 2012

- 1 and January 2013 for 1,200 kW.h and 1,400 kW.h usage (in previous version the income
- 2 tax rebate was not applied to proposed Rider J and Rider R).

Table 1 - Yukon Bills - Recent Historical Comparisons - Non-Government Residential at 1,000 kWh/month usage

Line #	Customer Use per month:	1,000 kWh	Actual years																	
			Jan-97		Jan-98		Jan-99		Jan-00		Jan-01		Jan-02		Jan-03		Jan-04		Jan-05	
			Rates	Bill	Rates	Bill	Rates	Bill	Rates	Bill	Rates	Bill	Rates	Bill	Rates	Bill	Rates	Bill	Rates	Bill
1	Base Rates																			
	Customer Charge (per month)		\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90
2=KWh*Base rate	First Block Energy (kWh)	1,000	\$0.0986	\$98.60	\$0.0986	\$98.60	\$0.0986	\$98.60	\$0.0986	\$98.60	\$0.0986	\$98.60	\$0.0986	\$98.60	\$0.0986	\$98.60	\$0.0986	\$98.60	\$0.0986	\$98.60
3=KWh*Base rate	Second Block Energy (kWh)	-																		
4=KWh*Rider F rate	Rider F (kW.h)[Fuel Price Rider]			\$0.00	\$0.003132	\$3.13		\$0.00		\$0.005924	\$5.92	\$0.0059	\$5.92	\$0.002214	\$2.21	\$0.005867	\$5.87	\$0.005867	\$5.87	
5=(1+2+3)*Rider J rate	Rider J (%)			\$0.00		\$0.00	15.28%	\$16.88	18.74%	\$20.71	18.74%	\$20.71	18.74%	\$20.71	14.93%	\$16.50	14.93%	\$16.50	14.93%	\$16.50
6=(1+2+3)*Rider R rate	Rider R (%)			\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00
7=(1+2+3)*Rider J rate	Proposed Rider J (%)																			
8=(1+2+3)*Rider R rate	Proposed Rider R (%)																			
9=Sum(1:8)	Total Before Tax Rebate, RSF/IER, GST			\$110.50		\$113.63		\$127.38		\$131.21		\$137.13		\$137.13		\$129.21		\$132.86		\$132.86
	Total Rate Charges excluding Rider F																			
9A=9-4	Total Rate Charges excluding Rider F			\$110.50		\$110.50		\$127.38		\$131.21		\$131.21		\$131.21		\$127.00		\$127.00		\$127.00
	Change from last rate			\$0.00		\$0.00		\$16.88		\$3.82		\$0.00		\$0.00		-\$4.21		\$0.00		\$0.00
				\$0.00		\$0.00		\$0.15		\$0.03		\$0.00		\$0.00		-\$0.03		\$0.00		\$0.00
	<i>Less: Rebates</i>																			
10=(1+2+3+7+8)*Rebate	Income Tax Rebate (-2%, -1%, -0.5%, -0.75%)		-2.00%	-\$2.21	-2.00%	-\$2.21	-2.00%	-\$2.21	-2.00%	-\$2.21	-2.00%	-\$2.21	-2.00%	-\$2.21	-2.00%	-\$2.21	-2.00%	-\$2.21	-1.00%	-\$1.11
11	Customer charge relief			-\$1.35		-\$1.35														
12	Energy charge relief (\$-0.01617/kW.h 1st block, \$0.03504/kW.h second block)			-\$0.01617		-\$0.01617		-\$0.01617		-\$0.01617		-\$0.01617		-\$0.01617		-\$0.01617		-\$0.01617		-\$0.01617
13	RSF Customer charge			\$0.03504		\$0.03504		\$0.00		-\$0.42		-\$2.65		-\$2.65		-\$2.20		-\$2.20		-\$2.32
14=kWh*RSF Rebate	RSF Energy (1st block kW.h)						-\$0.00893	-\$8.93	-\$0.02741	-\$27.41	-\$0.03333	-\$33.33	-\$0.03333	-\$33.33	-\$0.02586	-\$25.86	-\$0.02952	-\$29.52	-\$0.03050	-\$30.50
15=kWh*IER	Interim Electrical Rebate (IER, 1st block)																			
16	DCF							-\$16.88												
17=Sum(9:16)	Total After Rebates, before GST			\$90.77		\$93.90		\$98.94		\$98.94		\$98.94		\$98.94		\$98.94		\$98.94		\$98.94
18=17*1.05 [1.07;1.06]	Total After GST			\$97.12		\$100.48		\$105.87		\$105.87		\$105.87		\$105.87		\$105.86		\$105.86		\$105.86
	Change from last rate					\$3.4		\$5.39		\$0.00		\$0.00		\$0.00		-\$0.00		\$0.00		\$0.00
						3.5%		5.4%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%

Line #	Customer Use per month:	1,000 kWh	Actual years												2012/13 GRA Proposed					
			Jan-06		Jan-07		Jan-08		Jan-09		Jan-10		Jan-11		Jan-12		Jul-12		Jan-13	
			Rates	Bill	Rates	Bill	Rates	Bill	Rates	Bill	Rates	Bill	Rates	Bill	Rates	Bill	Rates	Bill	Rates	Bill
1	Base Rates																			
	Customer Charge (per month)		\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$14.65	\$14.65	\$14.65	\$14.65	\$14.65	\$14.65	\$14.65
2=KWh*Base rate	First Block Energy (kWh)	1,000	\$0.0986	\$98.60	\$0.0986	\$98.60	\$0.0986	\$98.60	\$0.0986	\$98.60	\$0.0986	\$98.60	\$0.0986	\$98.60	\$0.1214	\$121.40	\$0.1214	\$121.40	\$0.1214	\$121.40
3=KWh*Base rate	Second Block Energy (kWh)	-																		
4=KWh*Rider F rate	Rider F (kW.h)[Fuel Price Rider]		\$0.007909	\$7.91	\$0.009639	\$9.64	\$0.009639	\$9.64	\$0.018600	\$18.60	-\$0.003540	-\$3.54	-\$0.000900	-\$0.90	\$0.003520	\$3.52	\$0.004200	\$4.20	\$0.001910	\$1.91
5=(1+2+3)*Rider J rate	Rider J (%)		14.93%	\$16.50	14.93%	\$16.50	14.93%	\$16.50	11.45%	\$12.65	12.46%	\$13.77	12.46%	\$13.77						
6=(1+2+3)*Rider R rate	Rider R (%)			\$0.00		\$0.00		\$0.00	5.00%	\$5.53	10.53%	\$11.63	10.53%	\$11.63						
7=(1+2+3)*Rider J rate	Proposed Rider J (%)															6.40%	\$8.71	6.40%	\$8.71	
8=(1+2+3)*Rider R rate	Proposed Rider R (%)																6.50%	\$9.41	6.50%	\$9.41
9=Sum(1:8)	Total Before Tax Rebate, RSF/IER, GST			\$134.91		\$136.64		\$136.64		\$147.28		\$132.36		\$135.00		\$139.57		\$148.96		\$156.08
	Total Rate Charges excluding Rider F			\$127.00		\$127.00		\$127.00		\$128.68		\$135.90		\$135.90		\$136.05		\$144.76		\$154.17
9A=9-4	Total Rate Charges excluding Rider F			\$0.00		\$0.00		\$0.00		\$1.68		\$7.22		\$0.00		\$0.15		\$8.71		\$9.41
	Change from last rate			\$0.00		\$0.00		\$0.00		\$0.01		\$0.06		\$0.00		\$0.00		\$0.06		\$0.07
	<i>Less: Rebates</i>																			
10=(1+2+3+7+8)*Rebate	Income Tax Rebate (-2%, -1%, -0.5%, -0.75%)		-0.50%	-\$0.55	-0.50%	-\$0.55	-0.50%	-\$0.55	-0.50%	-\$0.55	-0.50%	-\$0.55	-0.50%	-\$0.55	-0.75%	-\$1.02	-0.75%	-\$1.09	-0.75%	-\$1.16
11	Customer charge relief																			
12	Energy charge relief (\$-0.01617/kW.h 1st block, \$0.03504/kW.h second block)																			
13	RSF Customer charge			-\$2.38		-\$2.38		-\$1.19		-\$1.19		-\$1.19		-\$1.19		-\$1.19		-\$1.19		-\$1.19
14=kWh*RSF Rebate	RSF Energy (1st block kW.h)		-\$0.03304	-\$33.04	-\$0.03477	-\$34.77	-\$0.01738	-\$17.38	-\$0.01738	-\$17.38	-\$0.02660	-\$26.60	-\$0.02660	-\$26.60	-\$0.02660	-\$26.60	-\$0.02660	-\$26.60	-\$0.02660	-\$26.60
15=kWh*IER	Interim Electrical Rebate (IER, 1st block)																			
16	DCF																			
17=Sum(9:16)	Total After Rebates, before GST			\$98.94		\$98.94		\$117.51		\$128.15		\$105.21		\$107.85		\$111.95		\$121.27		\$128.32
18=17*1.05 [1.07;1.06]	Total After GST			\$105.86		\$104.87		\$123.39		\$134.56		\$110.47		\$113.24		\$117.55		\$127.34		\$134.74
	Change from last rate			-\$0.00		-\$0.99		\$18.52		\$11.17		-\$24.10		\$2.77		\$4.31		\$9.79		\$7.40
				0.0%		-0.9%		17.7%		9.1%		-17.9%		2.5%		3.8%		8.3%		5.8%

Note:

1. Rider F for January 2013 is effective October 1, 2012 based on YEC and YECL's September 5, 2012 letter to YUB.

Table 2 - Yukon Bills - Recent Historical Comparisons - Non-Government Residential at 1,200 kWh/month usage

Line #	Customer Use per month:	1,200 kWh	Actual years																		
			Jan-97		Jan-98		Jan-99		Jan-00		Jan-01		Jan-02		Jan-03		Jan-04		Jan-05		
			Rates	Bill	Rates	Bill	Rates	Bill	Rates	Bill	Rates	Bill	Rates	Bill	Rates	Bill	Rates	Bill	Rates	Bill	
	Base Rates																				
1	Customer Charge (per month)		\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	
2=KWh*Base rate	First Block Energy (kWh)	1,000	\$0.0986	\$98.60	\$0.0986	\$98.60	\$0.0986	\$98.60	\$0.0986	\$98.60	\$0.0986	\$98.60	\$0.0986	\$98.60	\$0.0986	\$98.60	\$0.0986	\$98.60	\$0.0986	\$98.60	
3=KWh*Base rate	Second Block Energy (kWh)	200	\$0.1045	\$20.90	\$0.1045	\$20.90	\$0.1045	\$20.90	\$0.1045	\$20.90	\$0.1045	\$20.90	\$0.1045	\$20.90	\$0.1045	\$20.90	\$0.1045	\$20.90	\$0.1045	\$20.90	
4=KWh*Rider F rate	Rider F (kW.h)[Fuel Price Rider]			\$0.00	\$0.003132	\$3.76	\$0.00	\$0.00	\$0.00	\$0.00	\$0.005924	\$7.11	\$0.0059	\$7.11	\$0.002214	\$2.66	\$0.005867	\$7.04	\$0.005867	\$7.04	
5=(1+2+3)*Rider J rate	Rider J (%)			\$0.00	\$0.00	\$0.00	\$0.00	15.28%	\$20.08	18.74%	\$24.62	18.74%	\$24.62	18.74%	\$24.62	14.93%	\$19.62	14.93%	\$19.62	14.93%	\$19.62
6=(1+2+3)*Rider R rate	Rider R (%)			\$0.00	\$0.00	\$0.00	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00
7=(1+2+3)*Rider J rate	Proposed Rider J (%)																				
8=(1+2+3)*Rider R rate	Proposed Rider R (%)																				
9=Sum(1:8)	Total Before Tax Rebate, RSF/IER, GST			\$131.40		\$135.16		\$151.48		\$156.02		\$163.13		\$163.13		\$153.67		\$158.06		\$158.06	
	Total Rate Charges excluding Rider F			\$131.40		\$131.40		\$151.48		\$156.02		\$156.02		\$156.02		\$151.02		\$151.02		\$151.02	
9A=9-4	Change from last rate			\$0.00		\$0.00		\$20.08		\$4.55		\$0.00		\$0.00		-\$5.01		\$0.00		\$0.00	
				\$0.00		\$0.00		\$0.15		\$0.03		\$0.00		\$0.00		-\$0.03		\$0.00		\$0.00	
	<i>Less: Rebates</i>																				
10=(1+2+3+7+8)*Rebate	Income Tax Rebate (-2%, -1%, -0.5%, -0.75%)		-2.00%	-\$2.63	-2.00%	-\$2.63	-2.00%	-\$2.63	-2.00%	-\$2.63	-2.00%	-\$2.63	-2.00%	-\$2.63	-2.00%	-\$2.63	-2.00%	-\$2.63	-1.00%	-\$1.31	
11	Customer charge relief			-\$1.35		-\$1.35															
12	Energy charge relief (\$-0.01617/kW.h 1st block, \$0.03504/kW.h second block)		-\$0.01617	-\$16.17	-\$0.01617	-\$16.17															
			\$0.03504	\$7.01	\$0.03504	\$7.01															
13	RSF Customer charge						-\$0.42		-\$2.65		-\$2.65		-\$2.65		-\$2.20		-\$2.20		-\$2.32		-\$2.32
14=kWh*RSF Rebate	RSF Energy (1st block kW.h)						-\$0.00893	-\$8.93	-\$0.02741	-\$27.41	-\$0.03333	-\$33.33	-\$0.03333	-\$33.33	-\$0.02586	-\$25.86	-\$0.02952	-\$29.52	-\$0.03050	-\$30.50	
15=kWh*IER	Interim Electrical Rebate (IER, 1st block)																				
16	DCF						-\$20.08														
17=Sum(9:16)	Total After Rebates, before GST			\$118.26		\$122.02		\$119.42		\$123.34		\$124.53		\$124.53		\$122.98		\$123.71		\$123.92	
18=17*1.05 [1.07;1.06]	Total After GST			\$126.54		\$130.56		\$127.78		\$131.97		\$133.24		\$133.24		\$131.59		\$132.37		\$132.60	
	Change from last rate			\$4.0		\$4.0		-\$2.78		\$4.19		\$1.27		\$0.00		-\$1.65		\$0.78		\$0.22	
				3.2%		3.2%		-2.1%		3.3%		1.0%		0.0%		-1.2%		0.6%		0.2%	

Line #	Customer Use per month:	1,200 kWh	Actual years												2012/13 GRA Proposed						
			Jan-06		Jan-07		Jan-08		Jan-09		Jan-10		Jan-11		Jan-12		Jul-12		Jan-13		
			Rates	Bill	Rates	Bill	Rates	Bill	Rates	Bill	Rates	Bill	Rates	Bill	Rates	Bill	Rates	Bill	Rates	Bill	
	Base Rates																				
1	Customer Charge (per month)		\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$14.65	\$14.65	\$14.65	\$14.65	\$14.65	\$14.65	\$14.65	
2=KWh*Base rate	First Block Energy (kWh)	1,000	\$0.0986	\$98.60	\$0.0986	\$98.60	\$0.0986	\$98.60	\$0.0986	\$98.60	\$0.0986	\$98.60	\$0.0986	\$98.60	\$0.1214	\$121.40	\$0.1214	\$121.40	\$0.1214	\$121.40	
3=KWh*Base rate	Second Block Energy (kWh)	200	\$0.1045	\$20.90	\$0.1045	\$20.90	\$0.1045	\$20.90	\$0.1045	\$20.90	\$0.1045	\$20.90	\$0.1045	\$20.90	\$0.1282	\$25.64	\$0.1282	\$25.64	\$0.1282	\$25.64	
4=KWh*Rider F rate	Rider F (kW.h)[Fuel Price Rider]		\$0.007909	\$9.49	\$0.009639	\$11.57	\$0.009639	\$11.57	\$0.018600	\$22.32	-\$0.003540	-\$4.25	-\$0.000900	-\$1.08	\$0.003520	\$4.22	\$0.004200	\$5.04	\$0.001910	\$2.29	
5=(1+2+3)*Rider J rate	Rider J (%)		14.93%	\$19.62	14.93%	\$19.62	14.93%	\$19.62	11.45%	\$15.05	12.46%	\$16.37	12.46%	\$16.37							
6=(1+2+3)*Rider R rate	Rider R (%)			\$0.00		\$0.00		\$0.00	5.00%	\$6.57	10.53%	\$13.83	10.53%	\$13.83							
7=(1+2+3)*Rider J rate	Proposed Rider J (%)																6.40%	\$10.35	6.40%	\$10.35	
8=(1+2+3)*Rider R rate	Proposed Rider R (%)																6.50%	\$11.18	6.50%	\$11.18	
9=Sum(1:8)	Total Before Tax Rebate, RSF/IER, GST			\$160.51		\$162.58		\$162.58		\$175.34		\$157.36		\$160.52		\$165.91		\$177.08		\$185.51	
	Total Rate Charges excluding Rider F			\$151.02		\$151.02		\$151.02		\$153.02		\$161.60		\$161.60		\$161.69		\$172.04		\$183.22	
9A=9-4	Change from last rate			\$0.00		\$0.00		\$0.00		\$2.00		\$8.59		\$0.00		\$0.09		\$10.35		\$11.18	
				\$0.00		\$0.00		\$0.00		\$0.01		\$0.06		\$0.00		\$0.00		\$0.06		\$0.07	
	<i>Less: Rebates</i>																				
10=(1+2+3+7+8)*Rebate	Income Tax Rebate (-2%, -1%, -0.5%, -0.75%)		-0.50%	-\$0.66	-0.50%	-\$0.66	-0.50%	-\$0.66	-0.50%	-\$0.66	-0.50%	-\$0.66	-0.50%	-\$0.66	-0.75%	-\$1.21	-0.75%	-\$1.29	-0.75%	-\$1.37	
11	Customer charge relief																				
12	Energy charge relief (\$-0.01617/kW.h 1st block, \$0.03504/kW.h second block)																				
13	RSF Customer charge			-\$2.38		-\$2.38		-\$1.19		-\$1.19		-\$1.19		-\$1.19		-\$1.19		-\$1.19		-\$1.19	
14=kWh*RSF Rebate	RSF Energy (1st block kW.h)		-\$0.03304	-\$33.04	-\$0.03477	-\$34.77	-\$0.01738	-\$17.38	-\$0.01738	-\$17.38		-\$0.02660	-\$26.60	-\$0.02660	-\$26.60	-\$0.02660	-\$26.60	-\$0.02660	-\$26.60	-\$0.02660	-\$26.60
15=kWh*IER	Interim Electrical Rebate (IER, 1st block)																				
16	DCF																				
17=Sum(9:16)	Total After Rebates, before GST			\$124.43		\$124.78		\$143.36		\$156.11		\$130.10		\$133.27		\$138.10		\$149.19		\$157.54	
18=17*1.05 [1.07;1.06]	Total After GST			\$133.15		\$132.27		\$150.53		\$163.91		\$136.60		\$139.93		\$145.01		\$156.65		\$165.42	
	Change from last rate			\$0.55		-\$0.88		\$18.26		\$11.17		-\$27.31		\$3.33		\$5.08		\$11.64		\$8.77	
				0.4%		-0.7%		13.8%		9.1%		-16.7%		2.4%		3.6%		8.0%		5.6%	

Note:

1. Rider F for January 2013 is effective October 1, 2012 based on YEC and YECL's September 5, 2012 letter to YUB.

Table 3 - Yukon Bills - Recent Historical Comparisons - Non-Government Residential at 1,400 kWh/month usage

Line #	Customer Use per month:	1,400 kWh	Actual years																	
			Jan-97		Jan-98		Jan-99		Jan-00		Jan-01		Jan-02		Jan-03		Jan-04		Jan-05	
			Rates	Bill	Rates	Bill	Rates	Bill	Rates	Bill	Rates	Bill	Rates	Bill	Rates	Bill	Rates	Bill	Rates	Bill
1	Base Rates																			
	Customer Charge (per month)		\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90
2=KWh*Base rate	First Block Energy (kWh)	1,000	\$0.0986	\$98.60	\$0.0986	\$98.60	\$0.0986	\$98.60	\$0.0986	\$98.60	\$0.0986	\$98.60	\$0.0986	\$98.60	\$0.0986	\$98.60	\$0.0986	\$98.60	\$0.0986	\$98.60
3=KWh*Base rate	Second Block Energy (kWh)	400	\$0.1045	\$41.80	\$0.1045	\$41.80	\$0.1045	\$41.80	\$0.1045	\$41.80	\$0.1045	\$41.80	\$0.1045	\$41.80	\$0.1045	\$41.80	\$0.1045	\$41.80	\$0.1045	\$41.80
4=KWh*Rider F rate	Rider F (kW.h)[Fuel Price Rider]			\$0.00	\$0.003132	\$4.38		\$0.00		\$0.00	\$0.005924	\$8.29	\$0.0059	\$8.29	\$0.002214	\$3.10	\$0.005867	\$8.21	\$0.005867	\$8.21
5=(1+2+3)*Rider J rate	Rider J (%)			\$0.00		\$0.00	15.28%	\$23.27	18.74%	\$28.54	18.74%	\$28.54	18.74%	\$28.54	14.93%	\$22.74	14.93%	\$22.74	14.93%	\$22.74
6=(1+2+3)*Rider R rate	Rider R (%)			\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00
7=(1+2+3)*Rider J rate	Proposed Rider J (%)																			
8=(1+2+3)*Rider R rate	Proposed Rider R (%)																			
9=Sum(1:8)	Total Before Tax Rebate, RSF/IER, GST			\$152.30		\$156.68		\$175.57		\$180.84		\$189.13		\$189.13		\$178.14		\$183.25		\$183.25
	Total Rate Charges excluding Rider F			\$152.30		\$152.30		\$175.57		\$180.84		\$180.84		\$180.84		\$175.04		\$175.04		\$175.04
9A=9-4	Change from last rate			\$0.00		\$0.00		\$23.27		\$5.27		\$0.00		\$0.00		-\$5.80		\$0.00		\$0.00
				\$0.00		\$0.00		\$0.15		\$0.03		\$0.00		\$0.00		-\$0.03		\$0.00		\$0.00
	<i>Less: Rebates</i>																			
10=(1+2+3+7+8)*Rebate	Income Tax Rebate (-2%, -1%, -0.5%, -0.75%)		-2.00%	-\$3.05	-2.00%	-\$3.05	-2.00%	-\$3.05	-2.00%	-\$3.05	-2.00%	-\$3.05	-2.00%	-\$3.05	-2.00%	-\$3.05	-2.00%	-\$3.05	-1.00%	-\$1.52
11	Customer charge relief			-\$1.35		-\$1.35														
12	Energy charge relief (\$-0.01617/kW.h 1st block, \$0.03504/kW.h second block)		-\$0.01617	-\$16.17	-\$0.01617	-\$16.17														
			\$0.03504	\$14.02	\$0.03504	\$14.02														
13	RSF Customer charge							-\$0.42		-\$2.65		-\$2.65		-\$2.65		-\$2.20		-\$2.20		-\$2.32
14=kWh*RSF Rebate	RSF Energy (1st block kW.h)						-\$0.00893	-\$8.93	-\$0.02741	-\$27.41	-\$0.03333	-\$33.33	-\$0.03333	-\$33.33	-\$0.02586	-\$25.86	-\$0.02952	-\$29.52	-\$0.03050	-\$30.50
15=kWh*IER	Interim Electrical Rebate (IER, 1st block)																			
16	DCF							-\$23.27												
17=Sum(9:16)	Total After Rebates, before GST			\$145.75		\$150.13		\$139.90		\$147.74		\$150.11		\$150.11		\$147.03		\$148.49		\$148.91
18=17*1.05 [1.07;1.06]	Total After GST			\$155.95		\$160.64		\$149.70		\$158.08		\$160.62		\$160.62		\$157.32		\$158.88		\$159.33
	Change from last rate			\$4.7		\$4.7		-\$10.95		\$8.38		\$2.54		\$0.00		-\$3.30		\$1.56		\$0.45
				3.0%		3.0%		-6.8%		5.6%		1.6%		0.0%		-2.1%		1.0%		0.3%

Line #	Customer Use per month:	1,400 kWh	Actual years												2012/13 GRA Proposed						
			Jan-06		Jan-07		Jan-08		Jan-09		Jan-10		Jan-11		Jan-12		Jul-12		Jan-13		
			Rates	Bill	Rates	Bill	Rates	Bill	Rates	Bill	Rates	Bill	Rates	Bill	Rates	Bill	Rates	Bill	Rates	Bill	
1	Base Rates																				
	Customer Charge (per month)		\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$11.90	\$14.65	\$14.65	\$14.65	\$14.65	\$14.65	\$14.65	\$14.65	\$14.65	
2=KWh*Base rate	First Block Energy (kWh)	1,000	\$0.0986	\$98.60	\$0.0986	\$98.60	\$0.0986	\$98.60	\$0.0986	\$98.60	\$0.0986	\$98.60	\$0.0986	\$98.60	\$0.1214	\$121.40	\$0.1214	\$121.40	\$0.1214	\$121.40	
3=KWh*Base rate	Second Block Energy (kWh)	400	\$0.1045	\$41.80	\$0.1045	\$41.80	\$0.1045	\$41.80	\$0.1045	\$41.80	\$0.1045	\$41.80	\$0.1045	\$41.80	\$0.1282	\$51.28	\$0.1282	\$51.28	\$0.1282	\$51.28	
4=KWh*Rider F rate	Rider F (kW.h)[Fuel Price Rider]		\$0.007909	\$11.07	\$0.009639	\$13.49	\$0.009639	\$13.49	\$0.018600	\$26.04	-\$0.003540	-\$4.96	-\$0.000900	-\$1.26	\$0.003520	\$4.93	\$0.004200	\$5.88	\$0.001910	\$2.67	
5=(1+2+3)*Rider J rate	Rider J (%)		14.93%	\$22.74	14.93%	\$22.74	14.93%	\$22.74	11.45%	\$17.44	12.46%	\$18.98	12.46%	\$18.98							
6=(1+2+3)*Rider R rate	Rider R (%)			\$0.00		\$0.00		\$0.00	5.00%	\$7.62	10.53%	\$16.03	10.53%	\$16.03		\$0.00					
7=(1+2+3)*Rider J rate	Proposed Rider J (%)																6.40%	\$11.99	6.40%	\$11.99	
8=(1+2+3)*Rider R rate	Proposed Rider R (%)																	6.50%	\$12.96	6.50%	\$12.96
9=Sum(1:8)	Total Before Tax Rebate, RSF/IER, GST			\$186.11		\$188.53		\$188.53		\$203.39		\$182.35		\$186.05		\$192.26		\$205.20		\$214.95	
	Total Rate Charges excluding Rider F			\$175.04		\$175.04		\$175.04		\$177.35		\$187.31		\$187.31		\$187.33		\$199.32		\$212.27	
9A=9-4	Change from last rate			\$0.00		\$0.00		\$0.00		\$2.31		\$9.95		\$0.00		\$0.02		\$11.99		\$12.96	
				\$0.00		\$0.00		\$0.00		\$0.01		\$0.06		\$0.00		\$0.00		\$0.06		\$0.06	
	<i>Less: Rebates</i>																				
10=(1+2+3+7+8)*Rebate	Income Tax Rebate (-2%, -1%, -0.5%, -0.75%)		-0.50%	-\$0.76	-0.50%	-\$0.76	-0.50%	-\$0.76	-0.50%	-\$0.76	-0.50%	-\$0.76	-0.50%	-\$0.76	-0.75%	-\$1.40	-0.75%	-\$1.49	-0.75%	-\$1.59	
11	Customer charge relief																				
12	Energy charge relief (\$-0.01617/kW.h 1st block, \$0.03504/kW.h second block)																				
13	RSF Customer charge			-\$2.38		-\$2.38		-\$1.19		-\$1.19											
14=kWh*RSF Rebate	RSF Energy (1st block kW.h)		-\$0.03304	-\$33.04	-\$0.03477	-\$34.77	-\$0.01738	-\$17.38	-\$0.01738	-\$17.38											
15=kWh*IER	Interim Electrical Rebate (IER, 1st block)																				
16	DCF																				
17=Sum(9:16)	Total After Rebates, before GST			\$149.93		\$150.63		\$169.20		\$184.06		\$154.99		\$158.69		\$164.25		\$177.10		\$186.76	
18=17*1.05 [1.07;1.06]	Total After GST			\$160.43		\$159.66		\$177.66		\$193.26		\$162.74		\$166.62		\$172.47		\$185.96		\$196.09	
	Change from last rate			\$1.10		-\$0.76		\$18.00		\$11.17		-\$30.53		\$3.88		\$5.85		\$13.49		\$10.14	
				0.7%		-0.5%		11.3%		9.1%		-15.8%		2.4%		3.5%		7.8%		5.5%	

Note:

1. Rider F for January 2013 is effective October 1, 2012 based on YEC and YECL's September 5, 2012 letter to YUB.

1 **TOPIC:**

2
3 **REFERENCE: April 27, 2012 Application, Tab 2, Page 2-3**

4
5 YEC states “Total forecast sales are 382.6 GW.h for the 2012 test year and 395.9 GW.h
6 for the 2013 test year. Total forecast sales for 2012 include 296.0 GW.h of primary (firm)
7 wholesale sales, 52.3 GW.h of primary Major Industrial sales, 34.3 GW.h of firm Retail
8 sales (i.e., all firm sales other than wholesale or Major Industrial), and total forecast
9 sales for 2013 include 298.2 GW.h primary wholesale sales, 62.3 GW.h Major Industrial
10 sales, 35.3 GW.h firm Retail sales. No secondary sales are forecast to be available in
11 the test years”.

12
13 **PREAMBLE:**

14
15 **QUESTION:**

- 16
17 a) Please provide details of demand-side management efforts that have been
18 promoted to Yukon electricity ratepayers by YEC and others. In particular, please
19 provide details of any DSM-related discussions / activities undertaken with the
20 Yukon government regarding their own facilities.
21
22 b) Please provide details on the audit processes that have been completed on
23 these DSM efforts.
24
25 c) Please provide details on how the impacts of DSM efforts are reflected in the
26 load forecasts of YEC’s customer classes including secondary sales customers.
27
28 d) Please provide details of YEC’s DSM-related expenditures in 2005, 2006, 2007,
29 2008, 2009, 2010 and 2011 and their percentage of revenue requirement.
30

31 **ANSWER:**

32
33 **(a) through (c)**

34
35 Please see response to CW-YEC-1-35(a) and LE-YEC-1-24. DSM programming is still
36 being developed. The DSM working group is currently in the draft stage of the five year
37 DSM plan which will be submitted to the YUB upon completion. As noted in the response

1 to LE-YEC-1-12 typical DSM programs are implemented over a three to five year period
2 at which time they are usually evaluated and modified based on the results of that
3 evaluation. As such it is premature to at this time discuss the results of audit processes.

4
5 **(d)**

6
7 Please see response to YUB-YEC-1-46(d) for actual costs to date.

8
9 The annual cost for the DSM project in the revenue requirement (return on ratebase and
10 amortization) approximates \$0.15 million in 2012 and \$0.32 million in 2013 or
11 approximately 0.4% and 0.7% of revenue requirement for 2012 and 2013 respectively.

12
13 As a percentage of the overall revenue requirement, the DSM spending that is forecast
14 to occur is as follows:

- 15
- 16 • 2.7% for 2012 (including IDSM); and
 - 17
 - 18 • 3.5% for 2013 (including IDSM).
 - 19

20 The difference between the above values is because DSM spending is amortized over
21 future periods, and not expensed in the year incurred.

22
23 **Revised Response**

24
25 As directed by Order 2012-08, the above response has been expanded to include DSM
26 related expenditures from 2009 to 2011 inclusive.

27
28 There were no DSM related expenditures in the years 2005-2009. DSM related work
29 commenced subsequent to the Yukon Utilities Board directives in Board Orders 2009-2
30 and 2009-8.

31
32 DSM expenditures before third party contributions were \$49,779 in 2010 and \$987,400
33 in 2011. Offsetting contributions to the end of 2011 were \$734,554. DSM related
34 deferred costs net of contributions incurred by end of 2011 therefore equaled \$302,625
35 and were closed-out at the end of 2011 (i.e. there were no return on ratebase or
36 amortization expenses for the years prior to 2012). These costs are to be amortized over
37 10 years (from 2012 to 2021) at \$30,262 per year. In the 2012/13 GRA test year

1 forecasts, the annual cost related to 2010 and 2011 DSM expenditures (net of
2 contributions) in the revenue requirement (return on ratebase and amortization)
3 approximates \$0.046 million in 2012 and \$0.045 million in 2013 or approximately 0.1%
4 of revenue requirement for both 2012 and 2013.

1 **TOPIC:**

2

3 **REFERENCE: April 27, 2012 Application, Tab 5, Page 5-22**

4

5 YEC states “Total spending on property, plant and equipment from 2009 to 2011 for
6 projects less than \$1 million averaged \$7.9 million. The ongoing capital works spending
7 on property, plant and equipment is forecast at \$5.426 million, for projects added to rate
8 base in 2012 and \$7.107 million for 2013”.

9

10 **PREAMBLE:**

11

12 **QUESTION:**

13

- 14 a) Please update Table 5.2 with actual 2007, 2008 and 2011 expenditures.
- 15
- 16 b) Please explain the treatment of these projects for rate base purposes and the
17 timing of them being added to rate base.
- 18
- 19 c) Please provide a component breakdown of project expenditures by year for all
20 projects with a cost estimate of \$500,000 or more.

21

22 **ANSWER:**

23

24 **(a)**

25

26 Actual data for 2007 and 2008 was made available at the 2008/09 GRA.

27

28 With respect to 2011 data, please see YECL-YEC-1-42.

29

30 **(b)**

31

32 Table 5.2 shows the year of completion of each project, indicating the fiscal year for its
33 addition to rate base.

1 (c)

2

3 Consistent with YEC's 2005 rate filing and 2008/09 GRA, YEC's 2012/13 GRA sets out
4 extensive detail on all projects over \$1 million. Details on spending by component is
5 provided in the following IRs for the below-noted projects:

6

7 • CSTP Stage II – CW-YEC-1-26;

8

9 • Aishihik 3rd turbine – CW-YEC-1-28 and LE-YEC-1-21;

10

11 • Mayo B – LE-YEC-1-20;

12

13 • Aishihik Redundancy – LE-YEC-1-23;

14

15 • Aishihik River Berm; Aishihik Elevator Modernization; Aishihik Third Turbine
16 Spare Parts – LE-YEC-1-29;

17

18 • Wind Feasibility – LE-YEC-1-30;

19

20 • Mayo Substation – UCG-YEC-1-51;

21

22 • Mayo Headgate – UCG-YEC-1-52;

23

24 • Whitehorse Spillway – UCG-YEC-1-54; and

25

26 • JDE Enterprise System – UCG-YEC-1-56.

27

28 **(c) Revised Response**

29

30 As directed by Order 2012-08, the above response has been expanded to include
31 expenditures for 2009 onwards for projects with the cost between \$0.5 million and \$1
32 million. Please see Tables 1 through 17 for details on spending by component for these
33 projects.

1 **Table 1 - Wareham Intake Rock Scaling Project Cost by Component (\$000)**

2

Component	2010	2011	Total
Consultants	231.7	0.3	232.0
Contractors	421.1	101.7	522.8
YEC - Owner Costs	105.9	24.3	130.2
Total	758.7	126.3	885.0

3

4

5 **Table 2 - Wareham Spillway Upgrade Project Cost by Component (\$000)**

6

Component	2011	2012
Contractors	46.0	400.0
Consultants		120.0
YEC - Owner Costs	29.4	180.0
Grand Total	75.3	700.0

7

8

9 **Table 3 - WD3 Project Cost by Component (\$000)**

10

Component	2008	2009	2010	2011
Consultants	18.0	24.7	9.6	0.0
Contractors	271.5	249.8	3.7	0.0
Parts, Materials & Services	424.0	-152.1	119.4	12.0
YEC - Owner Costs	201.9	579.9	195.6	6.0
Total	915.4	702.3	328.3	18.0

Notes:

1. The cost include costs for subcomponents.
2. The cost for 2008 and 2009 transferred to fixed assets in the end of 2009. Additional costs in 2010 and 2011 closed-out separately.

11

1 **Table 4 - FD1 Project Cost by Component (\$000)**

2

Component	2007	2008	2009	2010	2011
Consultants	0.0	6.1	16.3	29.0	4.0
Contractors	25.7	63.9	141.0	48.0	5.3
Parts, Materials & Services	365.2	441.3	207.1	98.3	0.2
YEC - Owner Costs	217.9	408.8	458.0	450.8	30.6
Total	608.8	920.1	822.4	626.1	40.2

Notes:

1. The cost include costs for subcomponents.
2. The cost for 2007-2010 transfered to fixed assets in the end of 2010. Additional costs in 2011 closed-out separately.

3

4

5 **Table 5 - Mayo Lake Control Structure Project Cost by Component (\$000)**

6

Component	2010
Consultants	44.2
Contractor	501.5
YEC - Owner Costs	37.4
Total	583.1

7

8

9 **Table 6 - Wareham Bridge Project Cost by Component (\$000)**

10

Component	2010
Consultants	11.3
Contractor	516.9
YEC - Owner Costs	45.9
Total	574.0

11

1 **Table 7 - Wareham Dam Core Raise Project Cost by Component (\$000)**

2

Component	2011
Consultants	74.2
Contractor	477.0
YEC - Owner Costs	20.0

3

Total	571.1
-------	-------

4

5 **Table 8 - WH East Gate Gearboxes Project Cost by Component (\$000)**

6

Component	2009	2010	Total
Contractor	11.5	231.6	243.1
Materials & Services		167.6	167.6
YEC - Owner Costs	100.9	35.8	136.7

7

Total	112.4	435.0	547.5
-------	-------	-------	-------

8

Note: In Table 5.2 of 2012/13 GRA Application the cost for 2009 by error did not include \$0.010 million YEC – Owner Costs related to AFUDC and ES&G.

9

10

11 **Table 9 - WD1-7 Load Sharing Project Cost by Component (\$000)**

12

Component	2009	2010	Total
Contractor	70.0	329.4	399.4
Materials & Services	0.0	14.1	14.1
YEC - Owner Costs	9.1	79.4	88.5

13

Total	79.1	422.9	502.0
-------	------	-------	-------

1 **Table 10 - WAF Transmission Upgrades Projects Cost by Component (\$000)**

2

Component	2009	2010	2011	2012	2013
Contractor	35.5	118.4	23.5	15.0	15.0
Materials & Services	125.5	55.4	70.0	140.0	140.0
YEC - Owner Costs	143.4	157.0	298.7	195.0	195.0
3 Total	304.5	330.8	392.2	350.0	350.0

4

5 Note: In Table 5.2 of 2012/13 GRA Application the cost for 2009 by error did not include \$0.031 million YEC
 6 – Owner Costs related to AFUDC and ES&G.

7

8 **Table 11 - Minto Landing 138kV Shunt Reactor Project Cost by Component (\$000)**

9

Component	2009	2010	Total
Contractor	0.0	250.0	250.0
Consultants	24.8	-8.9	15.9
Materials & Services	373.5	96.9	470.4
YEC - Owner Costs	25.7	64.1	89.8
10 Total	424.0	402.2	826.2

11

12 **Table 12 - Pole Test and Treatment Projects Cost by Component (\$000)**

13

Component	2009	2010	2011	2012	2013
Contractor	208.9	233.1	170.3	230.0	230.0
YEC - Owner Costs	28.6	12.1	0.7	18.0	20.0
14 Total	237.5	245.2	171.0	248.0	250.0

15

16 Note: In Table 5.2 of 2012/13 GRA Application the cost for 2009 by error did not include \$0.022 million YEC
 17 – Owner Costs related to AFUDC and ES&G.

1 **Table 13 - L250 Elsa Trans Upgrade Projects Cost by Component (\$000)**

2

Component	2009	2010	2011	2012	2013
Contractor	14.1	36.6	94.1	75.0	75.0
Materials & Services	24.2	31.5	35.5	50.0	50.0
YEC - Owner Costs	54.0	62.5	16.0	25.0	25.0
Total	92.2	130.7	145.7	150.0	150.0

3

4

5 Note: In Table 5.2 of 2012/13 GRA Application the cost for 2009 by error did not include \$0.010 million YEC
 6 – Owner Costs related to AFUDC and ES&G.

7

8 **Table 14 - CSTP Communications & Control Projects Cost by Component (\$000)**

9

Component	2009	2010	Total
Contractor	73.9	0.0	73.9
Materials & Services	334.4	0.0	334.4
YEC - Owner Costs	211.1	38.6	249.7
Total	619.4	38.6	657.9

10

11

12 **Table 15 - Aishihik River Icing Study Mitigation (\$000)**

13

	2012
Consultants	70.0
Contractors	475.0
YEC - Owner Costs	120.0
Total	665.0

14

1 **Table 16 - WH West Gate Gearboxes & VFD (\$000)**

2

2013

Consultants	50.0
Contractors	250.0
Materials	200.0
YEC - Owner Costs	100.0

3 Total 600.0

4

5 **Table 17 - Faro Switchgear FD3, FD5, FD7 (\$000)**

6

2013

Consultants	50.0
Contractors	120.0
Contractors	300.0
YEC - Owner Costs	117.0

7 Total 587.0

1 **TOPIC:**

2

3 **REFERENCE:** April 27, 2012 Application, Tab 5, Page 5-47

4

5 *YEC states that the projected total 2012 and 2013 spending on deferred cost activities*
6 *outside of major projects over \$1 million totals \$2.89 million in 2012, and a total of \$2.7*
7 *million for 2013. Spending in 2012 and 2013 on each deferred cost activity between*
8 *\$100,000 and \$1 million totals \$2.61 million for 2012 and \$2.60 million in 2013.*

9

10 **PREAMBLE:**

11

12 **QUESTION:**

13

14 a) Please explain the treatment of these projects for rate base purposes and the
15 timing of them being added to rate base.

16

17 b) Please provide a component breakdown of project expenditures by year for all
18 projects with a cost estimate of \$500,000 or more.

19

20 **ANSWER:**

21

22 **(a)**

23

24 The treatment of the cited projects for the test years is summarized in Tables 5.6 (2012)
25 and 5.7 (2013). Those projects that show balances in Work in Progress are not in rate
26 base; all other balances shown in those tables are in rate base for the respective test
27 year.

28

29 **(b)**

30

31 Consistent with YEC's 2005 rate filing and 2008/09 GRA, YEC's 2012/13 GRA sets out
32 extensive detail on all projects over \$1 million. Details on spending by component are
33 provided in the following IRs for the below-noted projects:

34

35 • Geothermal - YUB-YEC-1-50(e);

36

37 • District Heating – YCS-YEC-1-17(a);

- 1 • Large Hydro – YUB-YEC-1-51(c);
2
3 • IFRS – CW-YEC-1(c);
4
5 • Wind – Ferry Hill – LE-YEC-1-30(a);
6
7 • Waste to Energy – YCS-YEC-1-16(a);
8
9 • Marsh Lake – YUB-YEC-1-42(i);
10
11 • Gladstone – YUB-YEC-1-43(d); and
12
13 • LNG – YCS-YEC-1-18(a).

14
15 **(b) Revised Response**

16
17 In addition to the list of referenced projects provided in response above, details on
18 spending by component are provided in the following IRs for the below-noted projects:
19

- 20 • DSM - YUB-YEC-1-46(d); and
21
22 • Mayo Lake Hydro Enhancement Project - YUB-YEC-1-45(b).
23

24 YEC noted that there was a typographical error in reference to IFRS cost breakdown
25 (IFRS – CW-YEC-1(c)). The correct reference is CW-YEC-1-4 (c).
26

27 As directed by Order 2012-08, the above response has been expanded to include
28 projects with a cost with the cost between \$0.5 million and \$1 million. Please see
29 Tables 1 though 6 for details on spending by component for these projects.

1 **Table 1 - Wareham Spillway Hoist Upgrade**
 2 **Project Cost by Component (\$000)**

3

Component	2012	2013
Contractors	75.0	200.0
Materials & Services	0.0	325.0
YEC - Owner Costs	25.0	125.0
4 Total	100.0	650.0

5
 6 **Table 2 - Resource Plan Update**
 7 **Project Cost by Component (\$000)**

8

Component	2010	2011	2012 Forecast
Contractors	13.5	79.1	
Consultants	137.6	263.1	200.0
YEC - Owner Costs	24.0	116.6	25.0
9 Total	175.1	458.8	225.0

10
 11 **Table 3 - DD5 Bottom End Overhaul Project Cost by Component (\$000)**

12

Component	2012 Forecast	2013 Forecast
Contractors	95.0	30.0
Materials & Services	328.0	70.0
YEC - Owner Costs	77.0	50.0
13 Total	500.0	150.0

1 **Table 4 - WH3 Ten Year Overhaul Project Cost by Component (\$000)**

2

Component	2013 Forecast
Contractors	150.0
Materials & Services	225.0
YEC - Owner Costs	125.0
Total	500.0

3

4

5 **Table 5 - AH1 Ten Year Overhaul Project Cost by Component (\$000)**

6

Component	2012 Forecast	2013 Forecast
Contractors	200.0	150.0
YEC - Owner Costs	125.0	150.0
Total	325.0	300.0

7

8

9 **Table 6 - AH2 Ten Year Overhaul Project Cost by Component (\$000)**

10

Component	2012 Forecast	2013 Forecast
Contractors	200.0	150.0
YEC - Owner Costs	125.0	150.0
Total	325.0	300.0

11