

**Index – MIPUG Book of Documents**  
**2015/16 Manitoba Hydro GRA**  
**As of May 26, 2015**

EXHIBIT MIPUG-10-1

Tab	Description	Reference
<b>Manitoba Hydro Policy Panel</b>		
1	<p>A) DSM Financial Evaluation for three rate setting methodologies: Main Submission Rate Methodology, Alternative Rate Methodology 1 and Alternative Rate Methodology 2.</p> <p>B) Sunk costs by project (Conawapa, Keeyask and US Tie Line) over 18 year amortization period to 2033 – included in select rate increases in NFAT.</p>	<p>A) Exhibit MH-104-12 from the NFAT Review</p> <p>B) MIPUG/MH I-003c from the NFAT Review</p>
2	A) Comparison of the capital spending differences between CEF14 and NFAT	A) PUB/MH I-13 from 2015/16 GRA
3	A) Manitoba Hydro 2012/13 & 2013/14 GRA – Transcript from December 10, 2012	A) Opening Remarks of Scott Thomson and Cross-Exam on December 10, 2012; pages 297- 326, 377 – 385, and 391 – 393.



**TAB 1**



NFAT DSM ANALYSIS - MAIN SUBMISSION RATE METHODOLOGY

	Development Plan	Plan #	DSM Level	Keyeask & Conawapa Capital Cost Scenario	(A) Cumulative Nominal Rate Increases by 2061/62 - Compared to Base	(B) Projected Even-Annual Rate Increases (2015/16 to 2031/32)	(C) Equivalent Even-Annual Rate Increases over the Forecast Period (2014/15 to 2061/62)	(D) Cumulative Nominal Rate Increases as at 2031/32	(E) Cumulative Nominal Rate Increases as at 2061/62	(F) Net Fixed Assets	(G) Net Debt	(H) Retained Earnings	(I) Debt:Equity Ratio as at 2031/32	(J) Net Fixed Assets	(K) Net Debt	(L) Retained Earnings	(M) Debt:Equity Ratio as at 2061/62	(N) * 20 year Present Value of Consumers Revenue (2031/32 back to 2012/13) in Billions of 2012PV\$	(O) * 50 year Present Value of Consumers Revenue (2061/62 back to 2012/13) in Billions of 2012PV\$	(P) * 50 year Present Value of Consumers Revenue - Compared to Base in Billions of 2012PV\$
										As at 2031/32 in Billions of Nominal Dollars			As at 2061/62 in Billions of Nominal Dollars							
1	K19 Sales C26 750 MW	14	Base	Reference	-	4.33%	1.42%	114%	96%	\$34.7	\$25.2	\$8.4	75%	\$37.7	\$15.0	\$16.8	47%	\$30.8	\$60.6	-
2	K19 Sales C30 750 MW	14	DSM Level 1	Reference	-4%	4.29%	1.37%	112%	92%	\$36.8	\$26.9	\$9.0	75%	\$38.7	\$15.2	\$17.6	46%	\$30.1	\$58.6	(\$1.9)
3	K19 Sales C31 750 MW	14	DSM Level 2	Reference	-10%	4.27%	1.30%	112%	86%	\$36.9	\$26.9	\$9.0	75%	\$39.1	\$15.4	\$17.8	46%	\$29.3	\$56.5	(\$4.0)
4	K19 Sales C33 750 MW	14	DSM Level 3	Reference	-10%	4.39%	1.31%	116%	87%	\$34.4	\$25.2	\$8.4	75%	\$40.0	\$16.3	\$17.7	48%	\$29.3	\$56.5	(\$4.0)
5	K19 Gas 750 MW	5	Base	Reference	-	3.63%	1.85%	91%	141%	\$25.3	\$18.5	\$6.2	75%	\$33.8	\$15.3	\$13.0	54%	\$29.2	\$61.4	-
6	K19 Gas 750 MW	5	DSM Level 1	Reference	-7%	3.76%	1.79%	95%	135%	\$25.1	\$18.3	\$6.1	75%	\$33.5	\$15.1	\$12.9	54%	\$28.9	\$58.7	(\$2.7)
7	K19 Gas 750 MW	5	DSM Level 2	Reference	-15%	3.74%	1.72%	94%	126%	\$24.7	\$18.1	\$6.0	75%	\$32.7	\$14.6	\$12.7	53%	\$28.2	\$56.2	(\$5.1)
8	K19 Gas 750 MW	5	DSM Level 3	Reference	-19%	4.04%	1.68%	104%	122%	\$24.6	\$18.0	\$6.0	75%	\$32.4	\$14.2	\$12.7	53%	\$28.5	\$55.9	(\$5.5)
9	All Gas	1	Base	Reference	-	3.29%	2.14%	80%	176%	\$20.2	\$14.8	\$4.9	75%	\$31.8	\$15.6	\$11.0	59%	\$28.4	\$62.8	-
10	All Gas	1	DSM Level 1	Reference	-11%	3.40%	2.05%	84%	165%	\$19.3	\$14.2	\$4.7	75%	\$30.4	\$14.5	\$10.7	57%	\$28.1	\$60.0	(\$2.7)
11	All Gas	1	DSM Level 2	Reference	-15%	3.36%	2.02%	82%	161%	\$19.0	\$13.9	\$4.6	75%	\$29.9	\$14.2	\$10.5	57%	\$27.4	\$57.8	(\$5.0)
12	All Gas	1	DSM Level 3	Reference	-19%	3.65%	1.99%	91%	157%	\$18.9	\$13.9	\$4.6	75%	\$29.7	\$14.0	\$10.5	57%	\$27.7	\$57.4	(\$5.4)
13	K19 Sales C26 750 MW	14	Base	High	-	4.81%	1.45%	131%	100%	\$37.3	\$27.2	\$9.1	75%	\$39.0	\$15.3	\$17.9	46%	\$32.0	\$63.1	-
14	K19 Sales C30 750 MW	14	DSM Level 1	High	-3%	4.68%	1.42%	126%	97%	\$39.8	\$29.1	\$9.7	75%	\$40.4	\$15.6	\$18.9	45%	\$31.0	\$61.0	(\$2.0)
15	K19 Sales C31 750 MW	14	DSM Level 2	High	-9%	4.63%	1.35%	125%	91%	\$39.9	\$29.2	\$9.8	75%	\$40.9	\$15.8	\$19.1	45%	\$30.2	\$58.9	(\$4.2)
16	K19 Sales C33 750 MW	14	DSM Level 3	High	-7%	4.72%	1.38%	128%	93%	\$36.8	\$27.0	\$9.0	75%	\$41.9	\$16.9	\$19.0	47%	\$30.0	\$58.9	(\$4.2)
17	K19 Gas 750 MW	5	Base	High	-	3.87%	1.86%	98%	142%	\$26.0	\$19.0	\$6.3	75%	\$34.2	\$15.3	\$13.3	53%	\$29.7	\$62.3	-
18	K19 Gas 750 MW	5	DSM Level 1	High	-7%	4.01%	1.80%	103%	135%	\$25.8	\$18.8	\$6.3	75%	\$33.8	\$15.1	\$13.2	53%	\$29.4	\$59.6	(\$2.7)
19	K19 Gas 750 MW	5	DSM Level 2	High	-15%	3.99%	1.72%	102%	127%	\$25.4	\$18.6	\$6.2	75%	\$33.1	\$14.7	\$13.0	53%	\$28.7	\$57.1	(\$5.2)
20	K19 Gas 750 MW	5	DSM Level 3	High	-19%	4.29%	1.69%	112%	123%	\$25.3	\$18.5	\$6.2	75%	\$32.7	\$14.3	\$12.9	52%	\$29.1	\$56.8	(\$5.5)

\* 2012 Constant dollar Consumers' Revenue discounted at 1.86% real discount rate

NFAT DSM ANALYSIS - ALTERNATIVE RATE METHODOLOGY 1

	Development Plan	Plan #	DSM Level	Keyeask & Conawapa Capital Cost Scenario	(A) Cumulative Nominal Rate Increases by 2061/62 - Compared to Base	(B) Year that 1.20 Interest Coverage Ratio is Achieved	(C) Equivalent Even-Annual Rate Increases over the Forecast Period (2014/15 to 2061/62)	(D) Cumulative Nominal Rate Increases as at 2031/32	(E) Cumulative Nominal Rate Increases as at 2061/62	(F) Net Fixed Assets	(G) Net Debt	(H) Retained Earnings	(I) Debt:Equity Ratio as at 2031/32	(J) Net Fixed Assets	(K) Net Debt	(L) Retained Earnings	(M) Debt:Equity Ratio as at 2061/62	(N) * 20 year Present Value of Consumers Revenue (2031/32 back to 2012/13) in Billions of 2012PV\$	(O) * 50 year Present Value of Consumers Revenue (2061/62 back to 2012/13) in Billions of 2012PV\$	(P) * 50 year Present Value of Consumers Revenue - Compared to Base in Billions of 2012PV\$
										As at 2031/32 in Billions of Nominal Dollars				As at 2061/62 in Billions of Nominal Dollars						
21	K19 Sales C26 750 MW	14	Base	Reference	-	2027	1.50%	78%	104%	\$34.7	\$28.2	\$5.4	84%	\$37.7	\$17.0	\$14.7	53%	\$29.5	\$61.0	-
22	K19 Sales C30 750 MW	14	DSM Level 1	Reference	-2%	2027	1.48%	76%	102%	\$36.8	\$30.6	\$5.2	86%	\$38.7	\$17.7	\$15.1	54%	\$28.5	\$59.2	(\$1.8)
23	K19 Sales C31 750 MW	14	DSM Level 2	Reference	-8%	2027	1.42%	70%	96%	\$36.9	\$30.9	\$5.1	86%	\$39.1	\$18.0	\$15.1	54%	\$27.6	\$57.1	(\$3.9)
24	K19 Sales C33 750 MW	14	DSM Level 3	Reference	-6%	2027	1.44%	72%	98%	\$34.4	\$29.3	\$4.3	87%	\$40.0	\$19.0	\$14.9	56%	\$27.5	\$57.1	(\$3.8)
25	K19 Gas 750 MW	5	Base	Reference	-	2025	1.89%	61%	146%	\$25.3	\$20.1	\$4.5	82%	\$33.8	\$16.4	\$11.9	58%	\$28.4	\$61.5	-
26	K19 Gas 750 MW	5	DSM Level 1	Reference	-6%	2026	1.84%	61%	140%	\$25.1	\$20.3	\$4.1	83%	\$33.5	\$16.4	\$11.5	59%	\$27.9	\$58.9	(\$2.6)
27	K19 Gas 750 MW	5	DSM Level 2	Reference	-14%	2027	1.77%	56%	132%	\$24.7	\$20.1	\$4.0	83%	\$32.7	\$15.9	\$11.3	58%	\$27.2	\$56.4	(\$5.1)
28	K19 Gas 750 MW	5	DSM Level 3	Reference	-16%	2027	1.75%	61%	130%	\$24.6	\$20.6	\$3.4	86%	\$32.4	\$16.0	\$10.9	59%	\$27.3	\$56.2	(\$5.3)
29	All Gas	1	Base	Reference	-	2023	2.16%	57%	179%	\$20.2	\$15.9	\$3.8	81%	\$31.8	\$16.3	\$10.2	61%	\$27.8	\$62.8	-
30	All Gas	1	DSM Level 1	Reference	-10%	2024	2.08%	58%	168%	\$19.3	\$15.4	\$3.5	81%	\$30.4	\$15.2	\$9.9	60%	\$27.5	\$60.1	(\$2.7)
31	All Gas	1	DSM Level 2	Reference	-15%	2024	2.04%	54%	164%	\$19.0	\$15.1	\$3.5	81%	\$29.9	\$14.9	\$9.7	60%	\$26.8	\$57.8	(\$5.0)
32	All Gas	1	DSM Level 3	Reference	-18%	2025	2.02%	56%	161%	\$18.9	\$15.4	\$3.1	83%	\$29.7	\$15.0	\$9.5	61%	\$26.9	\$57.5	(\$5.3)
33	K19 Sales C26 750 MW	14	Base	High	-	2032	1.59%	100%	113%	\$37.3	\$32.2	\$4.0	89%	\$39.0	\$18.6	\$14.4	56%	\$29.9	\$63.8	-
34	K19 Sales C30 750 MW	14	DSM Level 1	High	-4%	2028	1.55%	93%	110%	\$39.8	\$34.0	\$4.9	88%	\$40.4	\$18.8	\$15.6	55%	\$29.0	\$61.8	(\$2.1)
35	K19 Sales C31 750 MW	14	DSM Level 2	High	-9%	2027	1.50%	82%	104%	\$39.9	\$34.2	\$4.8	88%	\$40.9	\$19.2	\$15.8	55%	\$28.1	\$59.7	(\$4.2)
36	K19 Sales C33 750 MW	14	DSM Level 3	High	-6%	2028	1.53%	81%	107%	\$36.8	\$32.1	\$3.9	89%	\$41.9	\$20.3	\$15.5	57%	\$27.9	\$59.7	(\$4.2)
37	K19 Gas 750 MW	5	Base	High	-	2026	1.91%	67%	147%	\$26.0	\$21.1	\$4.2	83%	\$34.2	\$16.7	\$11.9	58%	\$28.8	\$62.5	-
38	K19 Gas 750 MW	5	DSM Level 1	High	-5%	2027	1.86%	68%	142%	\$25.8	\$21.4	\$3.7	85%	\$33.8	\$16.8	\$11.4	59%	\$28.3	\$59.9	(\$2.6)
39	K19 Gas 750 MW	5	DSM Level 2	High	-13%	2027	1.79%	62%	134%	\$25.4	\$21.1	\$3.6	85%	\$33.1	\$16.3	\$11.2	59%	\$27.5	\$57.4	(\$5.1)
40	K19 Gas 750 MW	5	DSM Level 3	High	-15%	2028	1.78%	68%	133%	\$25.3	\$21.8	\$2.9	88%	\$32.7	\$16.4	\$10.7	60%	\$27.6	\$57.2	(\$5.3)

\* 2012 Constant dollar Consumers' Revenue discounted at 1.86% real discount rate

NFAT DSM ANALYSIS - ALTERNATIVE RATE METHODOLOGY 2

	Development Plan	Plan #	DSM Level	Keyeask & Conawapa Capital Cost Scenario	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N) *	(O) *	(P) *
					Cumulative Nominal Rate Increases by 2061/62 - Compared to Base	Even Annual Rate Increases required to minimize Net Losses between the period as stated below	Equivalent Even-Annual Rate Increases over the Forecast Period (2014/15 to 2061/62)	Cumulative Nominal Rate Increases as at 2031/32	Cumulative Nominal Rate Increases as at 2061/62	Net Fixed Assets	Net Debt	Retained Earnings	Debt:Equity Ratio as at 2031/32	Net Fixed Assets	Net Debt	Retained Earnings	Debt:Equity Ratio as at 2061/62	20 year Present Value of Consumers Revenue (2031/32 back to 2012/13) in Billions of 2012PV\$	50 year Present Value of Consumers Revenue (2061/62 back to 2012/13) in Billions of 2012PV\$	50 year Present Value of Consumers Revenue - Compared to Base in Billions of 2012PV\$
					As at 2031/32 in Billions of Nominal Dollars							As at 2061/62 in Billions of Nominal Dollars								
2018-2022																				
41	K19 Sales C26 750 MW	14	Base	Reference	-	3.95%	1.50%	78%	104%	\$34.7	\$28.2	\$5.4	84%	\$37.7	\$17.0	\$14.7	53%	\$29.5	\$61.0	-
42	K19 Sales C30 750 MW	14	DSM Level 1	Reference	-2%	4.18%	1.47%	75%	102%	\$36.8	\$30.4	\$5.4	85%	\$38.7	\$17.5	\$15.2	53%	\$28.5	\$59.1	(\$1.8)
43	K19 Sales C31 750 MW	14	DSM Level 2	Reference	-8%	4.32%	1.41%	69%	96%	\$36.9	\$30.6	\$5.3	85%	\$39.1	\$17.8	\$15.3	54%	\$27.7	\$57.0	(\$4.0)
44	K19 Sales C33 750 MW	14	DSM Level 3	Reference	-8%	5.13%	1.41%	68%	96%	\$34.4	\$28.4	\$5.2	85%	\$40.0	\$18.5	\$15.5	54%	\$27.8	\$56.9	(\$4.1)
2016-2022																				
45	K19 Gas 750 MW	5	Base	Reference	-	4.16%	1.89%	60%	145%	\$25.3	\$19.9	\$4.7	81%	\$33.8	\$16.3	\$12.0	57%	\$28.4	\$61.5	-
46	K19 Gas 750 MW	5	DSM Level 1	Reference	-7%	4.54%	1.83%	59%	138%	\$25.1	\$19.7	\$4.7	81%	\$33.5	\$16.0	\$11.9	57%	\$28.1	\$58.8	(\$2.7)
47	K19 Gas 750 MW	5	DSM Level 2	Reference	-15%	4.60%	1.75%	53%	130%	\$24.7	\$19.4	\$4.7	81%	\$32.7	\$15.5	\$11.8	57%	\$27.4	\$56.2	(\$5.2)
48	K19 Gas 750 MW	5	DSM Level 3	Reference	-19%	5.08%	1.72%	54%	126%	\$24.6	\$19.4	\$4.7	81%	\$32.4	\$15.1	\$11.7	56%	\$27.7	\$55.9	(\$5.6)
2016 - 2020																				
49	All Gas	1	Base	Reference	-	4.95%	2.15%	55%	178%	\$20.2	\$15.5	\$4.2	79%	\$31.8	\$16.1	\$10.5	60%	\$27.9	\$62.7	\$0.0
50	All Gas	1	DSM Level 1	Reference	-11%	5.35%	2.07%	55%	167%	\$19.3	\$14.8	\$4.1	78%	\$30.4	\$14.9	\$10.3	59%	\$27.7	\$59.9	(\$2.8)
51	All Gas	1	DSM Level 2	Reference	-16%	5.46%	2.02%	51%	162%	\$19.0	\$14.5	\$4.1	78%	\$29.9	\$14.5	\$10.2	59%	\$26.9	\$57.6	(\$5.1)
52	All Gas	1	DSM Level 3	Reference	-20%	5.94%	2.00%	51%	158%	\$18.9	\$14.4	\$4.1	78%	\$29.7	\$14.3	\$10.2	58%	\$27.2	\$57.2	(\$5.5)
2018-2022																				
53	K19 Sales C26 750 MW	14	Base	High	0%	4.42%	1.56%	95%	110%	\$37.3	\$31.3	\$5.0	86%	\$39.0	\$18.0	\$15.1	54%	\$30.3	\$63.7	-
54	K19 Sales C30 750 MW	14	DSM Level 1	High	-2%	4.62%	1.54%	90%	108%	\$39.8	\$33.4	\$5.5	86%	\$40.4	\$18.4	\$16.0	53%	\$29.2	\$61.6	(\$2.0)
55	K19 Sales C31 750 MW	14	DSM Level 2	High	-8%	4.75%	1.48%	79%	103%	\$39.9	\$33.5	\$5.4	86%	\$40.9	\$18.7	\$16.2	53%	\$28.3	\$59.5	(\$4.2)
56	K19 Sales C33 750 MW	14	DSM Level 3	High	-7%	5.58%	1.49%	74%	103%	\$36.8	\$30.8	\$5.3	85%	\$41.9	\$19.5	\$16.4	54%	\$28.3	\$59.4	(\$4.3)
2016-2022																				
57	K19 Gas 750 MW	5	Base	High	-	4.40%	1.90%	64%	146%	\$26.0	\$20.6	\$4.7	82%	\$34.2	\$16.4	\$12.2	57%	\$28.9	\$62.4	-
58	K19 Gas 750 MW	5	DSM Level 1	High	-7%	4.77%	1.84%	63%	140%	\$25.8	\$20.4	\$4.7	81%	\$33.8	\$16.2	\$12.1	57%	\$28.6	\$59.7	(\$2.7)
59	K19 Gas 750 MW	5	DSM Level 2	High	-15%	4.86%	1.76%	57%	131%	\$25.4	\$20.1	\$4.7	81%	\$33.1	\$15.6	\$11.9	57%	\$27.9	\$57.2	(\$5.2)
60	K19 Gas 750 MW	5	DSM Level 3	High	-19%	5.33%	1.73%	59%	128%	\$25.3	\$20.0	\$4.7	81%	\$32.7	\$15.2	\$11.9	56%	\$28.2	\$56.8	(\$5.6)

\* 2012 Constant dollar Consumers' Revenue discounted at 1.86% real discount rate







**REFERENCE: Chapter 11: Financial Evaluation of Development Plans**

**QUESTION:**

Please provide the full amortization schedule by year for amortizing each of the sunk costs for projects that do not (under various scenarios) proceed. Indicate which costs are being amortized and which type of costs (if any) are maintained as some form of deferred asset.

**RESPONSE:**

The following table provides a breakdown of the sunk costs by project and annual amortization expense associated with each project through to 2032/33 for the reference scenario. As indicated in MIPUG/MH I-003(a), total costs spent to June 2014 are assumed to be amortized over the 18-year period to 2032/33 for the purposes of the financial analysis. There are no costs assumed to be maintained in the form of deferred assets.

Conawapa Generating Station sunk cost amortization is applied in the All Gas (Plan 1), K22/Gas (Plan 2), K19/Gas/250 (Plan 4), and K19/Gas/750 (Plan 6) plans. Keeyask Generating Station and Transmission sunk cost amortization applies to the All Gas (Plan 1) and Gas/C26 (Plan 7) plans. The US Tie Line sunk cost amortization applies to the All Gas (Plan 1), K22/Gas (Plan 2) and Gas/C26 (Plan 7) plans. It should be noted that the sunk cost amortization under high capital cost/high economic indicator and low capital cost/low economic indicator scenarios do not change materially from the reference scenario.



### Total Sunk Costs and Amortization Expense by Project:

(in \$ millions)		Fiscal Year ----->																			
Project		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	
Conawapa Generating Station	Total Sunk Cost	376.1																			
	Annual Amortization Expense	13.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	7.0	
Keeyask Generating Station	Total Sunk Cost	1,186.7																			
	Annual Amortization Expense	51.8	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	14.2	
Keeyask Transmission	Total Sunk Cost	13.4																			
	Annual Amortization Expense	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.3	
US Tie Line	Total Sunk Cost	1.2																			
	Annual Amortization Expense	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	
	Total Sunk Cost	1,577.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Total Annual Amortization Expense	66.17	87.64	87.64	87.64	87.64	87.64	87.64	87.64	87.64	87.64	87.64	87.64	87.64	87.64	87.64	87.64	87.64	87.64	21.46	

1

**TAB 2**



**Manitoba Hydro 2015/16 & 2016/17 General Rate Application  
PUB/MIPUG-13**

<b>Chapter:</b>	<b>P. Bowman Direct Testimony -Section 6.0 Figure 7</b>	<b>Page No.:</b>	<b>20</b>
<b>Topic:</b>	<b>Capital Expenditure</b>		
<b>Subtopic:</b>			
<b>Issue:</b>	<b>Forecast Capital Spending Changes</b>		

**PREAMBLE TO IR:****QUESTION:**

- a) Please provide an analysis that identifies the main differences in CEF14 versus that presented in the NFAT.

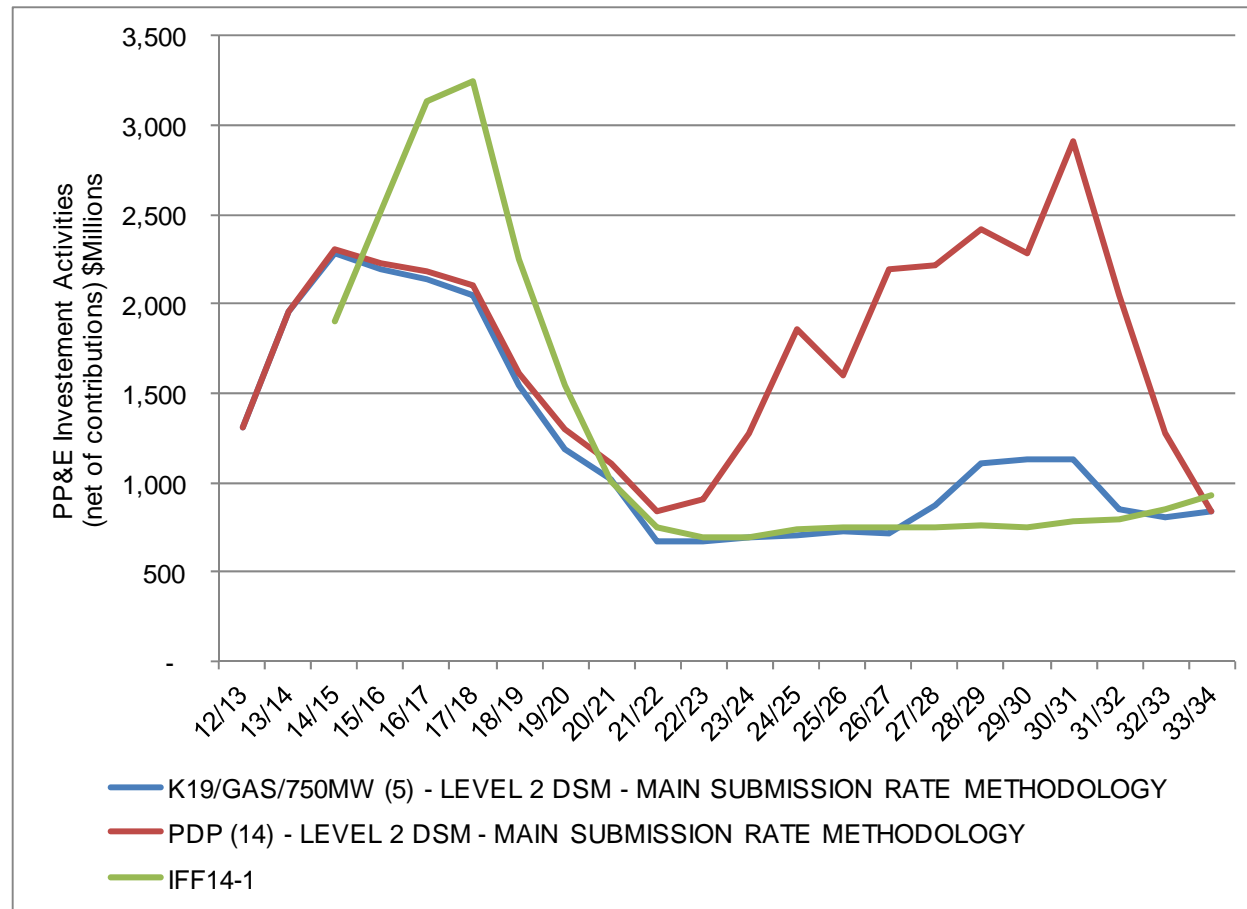
**RATIONALE FOR QUESTION:****RESPONSE****(a)**

Comparing the capital spending differences between CEF14 and NFAT plans is difficult because comparable capital plans were not provided for each NFAT plan.

Broadly, the total Property, Plant and Equipment contributions each year can be compared through the cash flow statements provided in Exhibit MH-104-12-1 in the NFAT review with the cash flow in IFF14 as is done in the graph (Figure 1) and Table 1 below. However, note that this includes major capital spending on Keeyask and Conawapa where relevant.

**Manitoba Hydro 2015/16 & 2016/17 General Rate Application  
PUB/MIPUG-13**

**Figure 1: Comparison of PP&E Investment Activities from Cash Flow Statement (\$ Millions)<sup>1</sup>**



<sup>1</sup> Data from IFF14-1 Appendix 3.3: Electric Operations (MH14) Projected Cash Flow Statement page 40-41 and Exhibit MH-104-12-1 DSM Evaluation Pro Forma Financial Statements for Level 2 DSM with main submission rate methodology for Plan 5 (most comparable to Hydro's current plans) and Plan 114 (Hydro's Preferred Development Plan at the time which includes Conawapa).

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**Table 1: Forecast PP&E Investment Activities from Cash Flow Statement (\$ Millions)**

(\$ Millions)	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21	21/22	22/23
K19/GAS/750MW (5) - LEVEL 2 DSM - MAIN SUBMISSION RATE METHODOLOGY	1,311	1,964	2,279	2,189	2,132	2,050	1,547	1,190	1,019	673	672
PDP (14) - LEVEL 2 DSM - MAIN SUBMISSION RATE METHODOLOGY	1,311	1,964	2,301	2,230	2,180	2,101	1,612	1,294	1,114	839	912
IFF14-1			1,900	2,518	3,134	3,244	2,253	1,550	1,010	756	698
	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34
K19/GAS/750MW (5) - LEVEL 2 DSM - MAIN SUBMISSION RATE METHODOLOGY	692	702	732	719	872	1,104	1,128	1,129	853	805	837
PDP (14) - LEVEL 2 DSM - MAIN SUBMISSION RATE METHODOLOGY	1,277	1,859	1,599	2,196	2,211	2,423	2,283	2,913	2,045	1,277	842
IFF14-1	697	744	751	752	745	762	748	787	800	846	928

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From an overall spending analysis Hydro is now forecasting to spend over \$3.2 billion more in the next 6 years (2014/15-2019/20) than forecasts from one year ago (K19/Gas). It should be noted that the above NFAT analysis includes the updated capital costs for Keeyask, Conawapa and BiPole-III that were reported in 2014.<sup>2</sup>

To review on a more detailed basis for major capital and administrative capital spending, CEF12<sup>3</sup> has been compared with CEF14<sup>4</sup> in Table 2.

The NFAT primarily used 2012 planning assumptions in the original preparation of the resource planning options (including the IFF12 and CEF12);<sup>5</sup> however changes were made during the review regarding Keeyask and BiPole total costs and level of DSM expenditures in the Major New Generation & Transmission spending that are not captured in CEF12. Table 2 assumes that the sustaining capital per NFAT should be basically consistent with CEF12 and therefore should be a reasonable representation of the common capital expenditures across all NFAT plans (in this case Plans 5 and 14). These values are used as a comparison to CEF14 to determine the main differences in expenditures other than Major New Generation & Transmission.

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<sup>2</sup> From Exhibit MH-104-8 in the NFAT review, page 1.

<sup>3</sup> Filed in IFF12 as Appendix A in the NFAT review.

<sup>4</sup> Filed as Appendix 4.1 in the 2015/16 GRA, compares only electric expenditures.

<sup>5</sup> NFAT Business Case, August 2013, Chapter 1, Section 1.4.2.5 NFAT Submission Planning Assumptions, page 21.



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**Table 2: Comparison of Major Capital and Base Capital (i.e. Sustaining Capital)  
from NFAT (CEF12) and CEF14 (\$ Millions)**

(\$ Millions)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
<b>Major &amp; Base Capital - Generation/Power Supply</b>										
CEF14	132.0	131.9	132.0	132.1	132.0	131.9	132.1	134.7	137.3	140.1
CEF12	178.5	180.7	166.1	142.9	191.2	126.9	181.4	161.1	192.5	185.7
<b>Difference</b>	<b>- 46.5</b>	<b>- 48.8</b>	<b>- 34.1</b>	<b>- 10.8</b>	<b>- 59.2</b>	<b>- 5.0</b>	<b>- 49.3</b>	<b>- 26.4</b>	<b>- 55.2</b>	<b>- 45.6</b>
<b>Major &amp; Base Capital - Transmission</b>										
CEF14	125.0	125.0	125.0	124.9	125.1	125.0	150.0	150.0	149.9	150.0
CEF12	148.9	124.0	67.5	39.2	42.4	45.3	49.3	72.5	93.0	106.4
<b>Difference</b>	<b>- 23.9</b>	<b>1.0</b>	<b>57.5</b>	<b>85.7</b>	<b>82.7</b>	<b>79.7</b>	<b>100.7</b>	<b>77.5</b>	<b>56.9</b>	<b>43.6</b>
<b>Major &amp; Base Capital - Customer Service &amp; Distribution</b>										
CEF14	235.5	240.9	268.3	206.0	205.9	206.0	206.0	210.1	214.3	218.6
CEF12	185.8	175.1	142.8	144.7	147.5	150.5	153.5	187.1	207.6	221.7
<b>Difference</b>	<b>49.7</b>	<b>65.8</b>	<b>125.5</b>	<b>61.3</b>	<b>58.4</b>	<b>55.5</b>	<b>52.5</b>	<b>23.0</b>	<b>6.7</b>	<b>- 3.1</b>
<b>Customer Care &amp; Marketing, Human Resources, Finance &amp; Administration</b>										
CEF14	78.4	79.2	59.3	59.3	59.4	59.5	59.6	59.9	61.1	62.3
CEF12	61.3	60.1	60.2	61.3	61.0	61.5	58.6	59.6	60.6	61.7
<b>Difference</b>	<b>17.1</b>	<b>19.1</b>	<b>- 0.9</b>	<b>- 2.0</b>	<b>- 1.6</b>	<b>- 2.0</b>	<b>1.0</b>	<b>0.3</b>	<b>0.5</b>	<b>0.6</b>
<b>Total Major &amp; Base Capital &amp; Administrative</b>										
CEF14	570.90	577.00	584.60	522.30	522.40	522.40	547.70	554.70	562.60	571.00
CEF12	574.50	539.90	436.60	388.10	442.10	384.20	442.80	480.30	553.70	575.50
<b>Difference</b>	<b>- 3.60</b>	<b>37.10</b>	<b>148.00</b>	<b>134.20</b>	<b>80.30</b>	<b>138.20</b>	<b>104.90</b>	<b>74.40</b>	<b>8.90</b>	<b>- 4.50</b>

In summary, Table 2 shows an increase for CEF14 compared with CEF12 (excluding Major New Generation and Transmission) of \$534.2 million in the first six years (2015-2020), and of \$717.9 million by 2023/24. The following analysis examines changes within each category in Table 2. However, within the first three of these categories, available data makes it difficult to compare all separate cost items between the two forecasts because CEF14 now lumps most costs in each category under a poorly enumerated "Base Capital" heading.

For **Major & Base Capital - Generation/Power Supply and Transmission**, these two categories must be assessed together as it is clear that HVDC work has changed classification between the two CEFs. The total impact is an increase in planned spending of nearly \$200 million by 2024.

For **Major & Base Capital – Customer Service & Distribution** spending, the cumulative change for CEF14 compared with CEF12 is a capital cost increase of \$416.2 million by 2020 and \$495.3 million by 2024. However, given that the majority of spending is reported in “Base Capital” for CEF14 and in “Customer Service & Distribution Domestic” for CEF12, it’s not easy to analyze the cost differential based on Hydro’s filings to date or to understand a rationale for

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these increases since the NFAT, notwithstanding Hydro's list of construction works causing increases in the test years provided in PUB/MH I-18e.

For **Customer Care & Marketing, Human Resources, Finance & Administration**, the cumulative change for CEF14 compared with CEF12 is a capital cost increase of \$29.7 million by 2020 and \$32.1 million by 2024.

In general, the use in CEF14 of "Base Capital" as a summary grouping for all expenditures with a forecast of less than \$50 million<sup>6</sup> adds a barrier to full review of the key changes since CEF12 (which reports all major capital individually).

Table 3 below attempts to compare Base Capital spending in CEF14 with CEF12 by summing all major capital projects under the \$50 million total project spending threshold in CEF12 and the domestic expenditures for each of the first three major capital categories.

**Table 3: Comparison of Capital Spending on Projects less than \$50 Million  
or 'Base Capital' (\$ Million)**

(\$ Millions)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
<b>Generation/Power Supply Base Capital</b>										
CEF14	98.9	101.6	71	55.7	77.2	72.7	118.1	97.8	110.7	98.7
CEF12	101.2	86.3	69.6	42.6	34.5	24.9	24.5	29.5	30.6	28.4
<b>Difference</b>	<b>-2.3</b>	<b>15.3</b>	<b>1.4</b>	<b>13.1</b>	<b>42.7</b>	<b>47.8</b>	<b>93.6</b>	<b>68.3</b>	<b>80.1</b>	<b>70.3</b>
<b>Transmission Base Capital</b>										
CEF14	73.2	57.3	68.3	94.8	84.8	76.1	66.5	64.7	63	128.2
CEF12	90.4	72.3	47.3	39.2	42.4	45.3	49.3	37.3	38	38.8
<b>Difference</b>	<b>-17.2</b>	<b>-15</b>	<b>21</b>	<b>55.6</b>	<b>42.4</b>	<b>30.8</b>	<b>17.2</b>	<b>27.4</b>	<b>25</b>	<b>89.4</b>
<b>Customer Service &amp; Distribution Base Capital</b>										
CEF14	197	182.6	209.6	160.7	173	193.3	206	210.1	214.3	218.6
CEF12	165	152.8	142.4	144.7	147.5	150.5	153.5	156.6	159.7	162.9
<b>Difference</b>	<b>32</b>	<b>29.8</b>	<b>67.2</b>	<b>16</b>	<b>25.5</b>	<b>42.8</b>	<b>52.5</b>	<b>53.5</b>	<b>54.6</b>	<b>55.7</b>
<b>Total Base Capital</b>										
CEF14	369.1	341.5	348.9	311.2	335	342.1	390.6	372.6	388	445.5
CEF12	356.6	311.4	259.3	226.5	224.4	220.7	227.3	223.4	228.3	230.1
<b>Difference</b>	<b>12.5</b>	<b>30.1</b>	<b>89.6</b>	<b>84.7</b>	<b>110.6</b>	<b>121.4</b>	<b>163.3</b>	<b>149.2</b>	<b>159.7</b>	<b>215.4</b>

From the comparison of the above "Base Capital" forecasts it appears that Hydro has consistently increased expenditures or number of smaller projects with total budgets less than \$50 million across all departments.

In summary, Table 3 shows an increase for CEF14 compared with CEF12 for the defined "Base Capital" (focused on items with costs under \$50 million) of \$448.9 million in the first six years

<sup>6</sup> As explained in PUB/MH I-18a.

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(2015-2020), and of \$1,136.5 million by 2023/24. Increases in this "Base Case" cost grouping as evaluated in Table 3 are spread over each major category:

- For **Base Capital - Generation/Power Supply**, the cumulative change for CEF14 compared with CEF12 is a capital cost increase of \$118.0 million by 2020 and \$430.3 million by 2024.
- For **Base Capital – Transmission**, the cumulative change for CEF14 compared with CEF12 is a capital cost increase of \$117.6 million by 2020 and \$276.6 million by 2024.
- For **Base Capital – Customer Service & Distribution** spending, the cumulative change for CEF14 compared with CEF12 is a capital cost increase of \$213.3 million by 2020 and \$429.6 million by 2024.

**RATIONALE FOR REFUSAL TO FULLY ANSWER THE QUESTION:**



**TAB 3**





**“When You Talk - We Listen!”**



MANITOBA PUBLIC UTILITIES BOARD

Re :

MANITOBA HYDRO

GENERAL RATE APPLICATION

2012/13 AND 2013/14

Before Board Panel:

Regis Gosselin - Board Chairman

Raymond Lafond - Board Member

Larry Soldier - Board Member

HELD AT:

Public Utilities Board

400, 330 Portage Avenue

Winnipeg, Manitoba

December 10, 2012

Pages 1 to 419

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1 -- we're forecasting and we've got -- I wouldn't want  
2 to see it -- it decline beyond where we're forecasting  
3 over the period, but I -- I -- I think we can manage  
4 that forward.

5                   It is -- it is incumbent on us to -- to  
6 be in a position to generate those funds though,  
7 because unlike a -- an investor-owned utility, which  
8 can go to the market, it can -- it can get additional  
9 equity to inject in the business to -- to help manage  
10 its growth, we've followed a path at -- at Manitoba  
11 Hydro over the course of our history where -- where we  
12 do generate funds internally. The government doesn't  
13 tend to inject money into the business, nor does it  
14 take a dividend out, unlike many provincial Crown  
15 corporations across the country.

16                   MR. BOB PETERS: In terms of building  
17 Conawapa, do you see the capital structure needed to  
18 support that project as being any different than the  
19 capital structure to support Keeyask?

20                   MR. SCOTT THOMSON: Well, based on the  
21 projections and the outlook we've got, for a period of  
22 time the capital structure is going to be significantly  
23 high -- more highly leveraged. And we are projecting  
24 over -- over a twenty (20) year outlook that we'll --  
25 we'll recover back to the -- the 75:25 capital



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1 structure that we've -- we've got today.

2                   So, you know, in a perfect world, Mr.  
3 Peters, I think that I'd -- I'd be much more  
4 comfortable operating where we could maintain that  
5 throughout but -- but accepting that we -- we wouldn't  
6 be in a position to internally generate that -- that  
7 level of capitalization in a rapid period of time  
8 before we start generating revenues from the assets.

9                   I mean, that's -- that's the other  
10 thing. In the -- in the lengthy pre-build time that  
11 we've got, we're not -- we're not generating any  
12 additional revenues off those assets. So over a -- a  
13 longer time frame we'll -- we'll see that coming back  
14 into balance and -- and again, beyond the sort of  
15 twenty (20) year outlook provided, we -- we can manage  
16 to operate for a decade or fifteen (15) years without  
17 significant new additions to capital because of the  
18 capacity that we're adding. I would see a much more  
19 modest outlook beyond that.

20                   But we're going to increase out capital  
21 -- our net capital assets by about \$15 billion over the  
22 next twelve (12) years or so. Assuming that we  
23 ultimately want to achieve 25 percent equity again, we  
24 need close to \$4 billion of -- of equity additionally  
25 in the business over that time frame. And -- and

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1 absent the investment from an -- an outside party being  
2 the province, we've got to generate those funds over  
3 time.

4                   So we are trying to strike a balance  
5 between, you know, the customer on the one hand and --  
6 and the financial requirements of -- of the business  
7 over the long term. And ultimately our customers are -  
8 - are the owners, if you will, of the company as well.  
9 So they've got a vested interested in -- in the -- the  
10 financial well-being of the business. We're not --  
11 we're not jacking up rates in order to enrich a  
12 shareholder here; the customers are the shareholder.

13                   MR. BOB PETERS: Does the Province of  
14 Manitoba's guarantee of the repayment of Manitoba  
15 Hydro's debt obligations account then for about 30  
16 percentage points on the capital structure? Let me --  
17 you've got puzzled look and maybe I do to.

18                   But you said you're familiar with the --  
19 your 60:40 debt-equity in British Columbia, and your  
20 equity is going to fall to 10 percent in your revised  
21 forecast, correct?

22                   MR. SCOTT THOMSON: M-hm. Yeah.  
23 That's -- that's right, I guess, at the trough.

24                   MR. BOB PETERS: Yeah. And, therefore,  
25 does Manitoba Hydro see the provincial debt guarantee

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1 to repay any debt as being worth at least 30 percentage  
2 points on that capital structure?

3 MR. SCOTT THOMSON: Well, the -- it --  
4 it has a -- it has an impact in that it -- it reduces  
5 our cost of borrowing generally. I mean, we -- we can  
6 operate with that kind of leverage and -- and not pay -  
7 - pay usurious bond rates. So whether -- whether -- I  
8 don't think I'd quite characterize it that it fills a  
9 30 percent gap in equity. But -- but, over time, the -  
10 - the fact that we -- we can lean on the government, I  
11 think, allows us to operate with a -- with an -- an  
12 equity or a capital structure that's about 25 percent  
13 equity. And for -- for brief periods during heavy  
14 capital investment, we can -- we can push it beyond  
15 that.

16 Historically, we've been much more  
17 highly leveraged. But at the same time, we weren't --  
18 you know, when we built Bipole 1, at least the federal  
19 government funded that initiative; we didn't have the  
20 financial capacity as an organization, as a  
21 corporation, to do it ourselves. We're -- we're in a  
22 much stronger position now because of -- because of the  
23 capital structure that we've built up over time.

24 MR. BOB PETERS: Did that answer  
25 include that, if maybe it wasn't worth 30 percentage

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1 points on the capital structure, maybe it was worth as  
2 much as fifteen (15), in terms of the difference  
3 between twen -- 40 percent and 25 percent?

4

5 (BRIEF PAUSE)

6

7 MR. SCOTT THOMSON: I see the chief  
8 benefit of the -- of the -- the debt guarantee as  
9 reducing the cost of borrowing over time, and -- and it  
10 does provide some comfort to rating agencies that --  
11 that allow us to -- to operate with even higher  
12 leverage during a -- a period of build that -- that  
13 we're looking at.

14 I wouldn't be comfortable at all if --  
15 if -- if we were to allow the -- the capital structure  
16 to decline at our highest point of leverage and then  
17 maintain it at that level over -- because I think we'd  
18 -- we'd be looking at downgrades, and I think that that  
19 could negatively impact the borrowing costs of the  
20 province as a whole.

21 MR. BOB PETERS: But Manitoba Hydro  
22 expects the generating stations will bring the capital  
23 structure back to a more favourable position from the  
24 revenues directly attributed to those generating  
25 stations.

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1                   Isn't that the plan?

2                   MR. SCOTT THOMSON:   Yeah, over the long  
3 term.

4                   MR. BOB PETERS:   And so in terms of  
5 quantifying it over the short term, you're not  
6 comfortable putting a number on it in terms of what --  
7 what that provincial debt guarantee allows the  
8 Corporation to do that it would otherwise have to do  
9 with other equity infusions?

10                  MR. SCOTT THOMSON:   Well, I think that  
11 -- that, based on discussions that we -- we've had  
12 internally -- and we -- we do have discussions with --  
13 with the rating agencies on a -- on an annual or more  
14 often basis -- that -- that they -- they've seen our  
15 outlooks and -- and provided -- and -- and given soft  
16 indications that, provided over time we move back  
17 towards our targeted capital structure, interest  
18 coverage and -- and that sort of thing, that -- that we  
19 can continue to operate and move forward with our plan.

20                  MR. BOB PETERS:   Is this Board to  
21 conclude, Mr. Thomson, that the Manitoba Hydro Electric  
22 board is comfortable, and if not comfortable, at least  
23 satisfied, that the capital structure that will  
24 deteriorate to 90 percent debt in the next ten (10)  
25 years is -- is satisfactory to them?

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1 MR. SCOTT THOMSON: Yeah, we've --  
2 we've spent a great deal of time talking with -- with  
3 the board about the outlook and -- and the implications  
4 on -- on rates. And -- and while again I think -- I  
5 think our -- all of our board members would be much  
6 more comfortable if -- if we -- if we were in a  
7 position where we could forecast lower -- lower rate  
8 increases over time, that would be positive and -- and  
9 would prefer to avoid leverage, the -- the degree of  
10 leverage that we've got and are -- are anticipating,  
11 but that they're -- they're prepared to move forward on  
12 the basis that -- that we've put in front of the Board.

13 MR. BOB PETERS: Can the Board take  
14 from your answer that -- well, I guess, as a matter of  
15 course, your board did approve the IFF12 back at their  
16 November meeting?

17 MR. SCOTT THOMSON: Yes, they did,  
18 subject to some adjustments, which have been made and  
19 have been filed. It wasn't -- there was -- there was a  
20 great deal of discussion at the board table.

21 MR. BOB PETERS: We -- Ms. Ramage  
22 doesn't generally let me get very far with those  
23 discussions of the witnesses. But the net result of --  
24 from what I can tell, of IFF12 is expenses up on  
25 capital projects 4 billion, revenues from exports down

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1 3 billion, so it's a \$7 billion less favourable  
2 position than IFF11-2?

3 MR. SCOTT THOMSON: Yeah, I don't think  
4 you can compare the dollars to dollars in quite that  
5 way. But the -- but the revenue over the period is  
6 down -- down the -- the roughly, you know, based on the  
7 numbers that you provided and -- and the capital cost  
8 outlook. But those costs would be recovered over the  
9 life of the assets, you know, seventy (70) to a hundred  
10 years in -- in some cases.

11 MR. BOB PETERS: And as for consumer  
12 rate increases, rare is the time I get to correct my  
13 colleague, Mr. Williams, but instead of what the Board  
14 saw in -- in 11.2 as a rate increase of 3 1/3 percent  
15 for twelve (12) years, which I think was up from its  
16 previous projection in IFF-09, the new projection is  
17 approximately 4 percent for eighteen (18) years?

18 MR. SCOTT THOMSON: Yeah, we've -- the  
19 -- the levelized increase is just under 4 percent over  
20 that time frame.

21

22 (BRIEF PAUSE)

23

24 MR. BOB PETERS: You said in a previous  
25 answer, Mr. Thomson, that the Corporation has to try to

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1 find a balance as between its financial picture and the  
2 -- the interests of its domestic consumers. Did I  
3 adequately rephrase you?

4 MR. SCOTT THOMSON: I think that's  
5 fair.

6 MR. BOB PETERS: And in -- in terms of  
7 -- can you tell this Board how Manitoba Hydro  
8 determines where that balancing point is?

9 MR. SCOTT THOMSON: Well, we -- again,  
10 looking at over the -- the longer term -- in -- in the  
11 near term we're seeking to recover the -- the cost of  
12 service over the -- over the -- the two (2) year test  
13 period. And we've lost a significant revenue stream,  
14 and that's -- that's at the heart of what's driving our  
15 -- our two (2) year test period rate requests.

16 I don't think it's -- it's prudent for  
17 us to operate at a loss. And -- and the -- the rate  
18 increases that we've asked for over the -- the two (2)  
19 year test period keep us in the black, and modestly so  
20 if you look back over the -- the earnings history that  
21 we've -- we've had over the 1a -- since 2004, the last  
22 drought period.

23 You know, we're -- we're marginally  
24 favourable, marginally profitable over the two (2) year  
25 test period assuming that we get the rate increases.



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1 And -- and absent those rate increases we're operating  
2 at a loss.

3 Longer-term, we've -- we've seen the  
4 deterioration in our -- in our financial results and --  
5 and the outlook, the long-term outlook, as a  
6 consequence of the lost export revenue. And that --  
7 that -- you know, three (3) or four (4) years ago our  
8 outlook was a lot stronger, and it -- it has a  
9 significant impact over the long term on us. And --  
10 and that's what's really driving our longer-term  
11 outlook on -- on rates.

12 If that changes three (3), four (4),  
13 five (5) years out and -- and is substantially more  
14 favourable than we're anticipating, we'll be in a  
15 position to pull back. We're -- we're not seeking rate  
16 increases at this time beyond the two (2) year test  
17 period. And clearly we'd -- we'd revisit that every  
18 year as we move forward.

19 But what -- what I'd -- I am concerned  
20 about is artificially suppressing the -- the rate --  
21 the rate increases now and then facing a situation  
22 where, you know, you might get a couple of periods of  
23 drought in the twenty (20) year -- in the twenty (20)  
24 year time frame. And by deferring things, pushing a  
25 problem out into the future isn't going to make the

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1 problem go away. It's going to exacerbate the problem.

2                   So if -- if we can make the adjustments  
3 and -- and get the rate increase that we're seeking  
4 here, we can maintain profitability. We can continue  
5 to deliver service to our customers and reliability,  
6 and -- and address the -- the challenges that we've got  
7 in maintaining the existing assets that we have in the  
8 short term.

9                   And -- and again, if -- if circumstances  
10 change in -- out into the future, we'd be in -- we may  
11 -- favourably, then we'd be in a position to temper  
12 future rate increases. But -- and -- and I know Ms.  
13 Ramage might kick me under the table, but -- but that  
14 was one of the -- you know, one of the lengthy  
15 discussions we had at the board table when -- when the  
16 IFF was approved, you know. There was -- there was  
17 concern expressed, you know, these are above the -- the  
18 general rate of inflation.

19                   Well, we are investing in new assets for  
20 the future of -- of the business over the longer term  
21 and the -- the twenty (20) year time horizon. That's  
22 what we're -- we're anticipating is going to be  
23 required to -- to be able to do that. If -- if our  
24 future revenue stream reverts back to the way it looked  
25 three (3) or four (4) years ago, we won't require

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1 increases of -- of that order of magnitude.

2 But if long-term bond rates go up, you  
3 know, a couple of percentage points, there -- there are  
4 a number of factors that could come into play five (5)  
5 years down the road that could be negative. And if we  
6 -- if we don't -- if we don't act prudently now, those  
7 problems are -- are going to get even tougher to deal  
8 with as we -- as we move forward.

9 MR. BOB PETERS: So the balance that  
10 Manitoba Hydro has put to it is to put additional rate  
11 pressures on domestic customers at approximately two  
12 (2) times inflation to try to keep Manitoba Hydro's  
13 head above water, at least keep it in the black?

14 MR. SCOTT THOMSON: That's -- that's  
15 what we're facing right now, because as -- as I said,  
16 if you -- if you put it in a context of reduction in  
17 export revenues on the order of \$150 million, which  
18 represents, you know, double dig -- double-digit change  
19 in terms of -- of the overall domestic revenue stream  
20 in percentage terms, we've got to make up that  
21 shortfall somehow.

22 We -- we've enjoyed the benefit of the  
23 subsidy for a long time. The subsidy has gone away.  
24 But -- but we can't turn the Corporation on a dime. We  
25 can't shed cost at the same rate that -- that that

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1 decline in revenues happened. We -- we just -- we --  
2 we can't do it and -- and operate safely and -- and  
3 effectively. So -- but that's the reality that we're  
4 facing. So we need -- we need to make up for that  
5 shortfall.

6 MR. BOB PETERS: And did I hear from  
7 your second-last answer, Mr. Thomson, that if the  
8 future risks turn negative, such as an unfavourable  
9 drought or bond rates go up and cost more for financing  
10 purposes, then even the numbers that are in IFF12 would  
11 be downgraded?

12 MR. SCOTT THOMSON: Yeah, I want to be  
13 careful. The -- the -- we planned for -- we planned  
14 for drought in our long-term plans. So based on -- on  
15 water flows over a hundred years, we -- we incorporate  
16 the effects of drought in our -- in our long-term  
17 forecast.

18 But when that will occur, it -- we know  
19 that it will happen and we're -- and we anticipate it  
20 will happen approximately, you know, on average in the  
21 same proportion. But we could have two (2) short term  
22 bursts of drought in -- in ten (10) years.

23 If we had a -- if we had an extended  
24 drought that we do plan for and -- and the -- the  
25 negative financial impact of that on the order of -- of

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1 close to \$2 billion, if that hit us, then 80 percent of  
2 our equity disappears. If we have another negative  
3 impacts on the operations of the company a few years  
4 later, that really puts a strain on the business, so --  
5 and -- and increases the leverage dramatically.

6 But we may have -- we may have a period  
7 of -- of strong water flows. The caution that I'd have  
8 there is we also anticipate having periods of strong  
9 water flow, and that's built into our long-term outlook  
10 as well.

11 So if things are -- are real good for a  
12 couple of years, you still have to plan for the bad  
13 times as well. And that -- and that's what the long-  
14 term IFF is designed to do. It's -- it -- it looks at  
15 the -- in the very short run, builds in the existing  
16 reservoir levels and -- and, in -- in the current year  
17 ahead, forecasts much more directly what we anticipate.

18 But over the long term, it's -- it's  
19 average water flows. And -- and we build that into our  
20 revenue forecast in terms of the -- the energy that's  
21 going to be available. And then we look at -- at a --  
22 a group, a blend of -- of external forecasts in terms  
23 of what the market will pay for -- for the electricity.  
24 And -- and that has come off in recent years.

25 MR. BOB PETERS: And, Mr. Thomson, what

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1 if the export market price doesn't -- doesn't double in  
2 the next five (5) years or triple in the next ten (10)  
3 years, as perhaps included in the forecast? Does that  
4 also mean it's a negative -- there's a negative impact  
5 on IFF12?

6 MR. SCOTT THOMSON: If -- if the -- if  
7 the actuals -- if the actual revenue levels are lower,  
8 then, yeah, it's going to negatively impact on our --  
9 on our forecast.

10 MR. BOB PETERS: I want to pick up on a  
11 comment, Mr. Thomson. You said that Manitoba Hydro --  
12 at least my recollection and what my notes said was you  
13 can't shed costs as quickly as -- as revenue has left  
14 the Corporation from exports.

15 MR. SCOTT THOMSON: Yes, that's right.  
16 We're a price taker in the opportunity market.

17 MR. BOB PETERS: All right. I want to  
18 turn away from what Hydro is doing to get more revenues  
19 through domestic rate increases to get your perspective  
20 on what Hydro is doing to find bottom-line revenues  
21 through internal savings from its \$800 million of OM&A  
22 expenses.

23 Would it be fair and correct to say that  
24 at Fortis, an investor-owned distribution utility, you  
25 had to create financial efficiencies to deliver value

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1 and money to your shareholders?

2 MR. SCOTT THOMSON: Yes, we did. We  
3 looked at -- at productivity.

4 MR. BOB PETERS: And what creative  
5 solutions did you, as the CFO, come up with that you  
6 can briefly tell us were successful?

7 MR. SCOTT THOMSON: We did a bunch of  
8 process redesign. We had grown through -- through  
9 acquisition. And we were in -- we had the ability --  
10 through that process, there were redundancies that were  
11 created and opport -- opportunities to -- to  
12 streamline. We looked at discretionary expenditures  
13 and minimized those.

14 And -- and, generally speaking, what we  
15 -- what we typically did in a budgeting exercise year  
16 to year was -- was look at -- it was a -- kind of a  
17 modified zero-base budgeting approach. But we looked  
18 at -- at the objectives of the business units and what  
19 they -- what it was that they had to achieve from year  
20 to year and -- and whether there were opportunities,  
21 based on investments in capital that could grade --  
22 create operating productivity. We -- we built those  
23 into -- into the forecast's outlook.

24 There were -- we had the opportunity,  
25 being an investor-owned company, to provide

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1 performance-based incentives. But for the most part,  
2 it -- it focussed around the -- the mission of -- of  
3 the organizational units and -- and what they required  
4 to do their -- their job.

5                   So typically, again, we built in -- we -  
6 - we looked at labour cost escalation. We looked at  
7 the -- the costs that were -- were non-controlled. And  
8 we allowed for those, and we -- we challenged the --  
9 the business units internally to look for productivity  
10 improvements.

11                   There's -- but -- but you can't -- you  
12 can't cost-cut your way to prosperity. There's a limit  
13 to -- to what can be achieved there at the absolute  
14 extreme. You -- you can't cut below zero. And -- and  
15 we obviously can't operate a utility with the  
16 geographic scope of this one without people, and their  
17 labour is our -- is our largest cost in -- in our  
18 operating cost structure.

19                   MR. BOB PETERS: Mr. Thomson, in your  
20 ten (10) months that you've been at the helm of  
21 Manitoba Hydro, have you determined whether any of  
22 those efficiency improvements that you just spoke about  
23 can be transferred to Manitoba Hydro with -- with  
24 positive gains?

25                   MR. SCOTT THOMSON: Well, I guess I'd -



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1 - I'd first like to say that the Company's had a  
2 running start at it. They -- they've been examining  
3 and looking, going back some years, at -- at how costs  
4 can be minimized. And there have been further  
5 additional actions taken in the time that I've been  
6 here.

7                   But what -- what we've really cha -- the  
8 executives have challenged the organization to do is  
9 when -- we have a certain amount of turnover of  
10 employees each -- each year and -- and attrition  
11 through -- through retirements and those sorts of  
12 things, and a hiring freeze, if you will, was -- was  
13 put in place, and then -- then exceptions are -- are  
14 allowed. But basically challenging the -- the Company  
15 to look at whether or not we needed to replace every  
16 position that -- that -- when -- when people either  
17 retire or move on, whether they can -- whether the work  
18 could be accomplished differently and/or whether the  
19 work needs to continue to be done or could be done in -  
20 - in a somewhat different way.

21                   And -- and for the most part, what --  
22 what we've seen is that the -- the actions and  
23 activities that -- that we're undertaking were manned -  
24 - were manned appro -- were -- were staffed  
25 appropriately.

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1 I think over the longer haul, to make  
2 material changes in -- in our -- our co -- our  
3 operating cost structure we'd have to -- to focus on  
4 whether there are things that our customers don't truly  
5 value that we do and look at -- at, you know, what  
6 business are you in, so to speak. And that's -- that's  
7 a longer-term exercise.

8 MR. BOB PETERS: Have you come up with  
9 any concrete plan, in terms of dollars and cents and  
10 timelines, that you'd like to target in terms of those  
11 efficiencies yet?

12 MR. SCOTT THOMSON: We're -- we're in  
13 the planning staging for those things now, again,  
14 looking at core business review and requirements. And  
15 -- and so, no, I don't have -- I don't have a timeline  
16 that I can share with you right now.

17 MR. BOB PETERS: Did you, at Fortis, or  
18 your colleagues there, Mr. Thomson, ever benchmark the  
19 Fortis/Terasen group of companies against peers?

20 MR. SCOTT THOMSON: Yes, we did,  
21 although it's -- it's always a challenge in -- in the  
22 utility industry across Canada. The -- the geography's  
23 covered. The -- the customer mix can have a pretty  
24 significant bearing on -- on how -- how you have to  
25 staff up and, as well, your -- your operating

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1 philosophy or strategy.

2                   Some utilities -- and -- and we were  
3 Fortis -- the Fortis companies tended to operate this  
4 way, did -- did an awful lot of the construction work,  
5 had outsourced a lot of its -- its construction work.  
6 So we were -- we were more an operate and maintain  
7 organization as -- as opposed to the way that -- that  
8 Hydro is configured, where -- where a significant  
9 proportion of our -- our staff are devoted to capital  
10 activities.

11                   And -- and we're an integrated utility.  
12 We generate. We transmit. We distribute. The Fortis  
13 focus had been predominantly on distribution, as  
14 opposed to -- we had some generation on the electricity  
15 side, some transmission some transmission assets on the  
16 gas side, but -- but no production, no exploration.

17                   So while -- while in absolute numbers,  
18 you know, we had over a million customers between gas  
19 and electric and -- and substantially smaller employee  
20 footprint, we didn't operate in -- in big chunks of --  
21 of that -- of the -- the supply chain that -- that  
22 Manitoba Hydro operates under.

23                   MR. BOB PETERS: Did those benchmarking  
24 activities when you were in British Columbia yield the  
25 discovery of best practices in any area that you

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1 weren't currently or your company wasn't currently  
2 involved in?

3 MR. SCOTT THOMSON: Well, through the  
4 industry associations that -- that we belonged to and -  
5 - and which were the -- the two (2) larger ones in  
6 Canada being the Canadian Gas Association and Canadian  
7 Electricity Association, most of the -- the -- both of  
8 those associations have operating sub-groups within  
9 them, and there's an awful lot of information sharing  
10 through -- through that process.

11 But we -- actually, one of the areas  
12 that we -- we benefited most was internal benchmarking.  
13 Again, Fortis had operated over broad geography in BC  
14 similar to the way that -- that Manitoba Hydro does  
15 here. And so there was regional operations, and -- and  
16 looking at the differences, you know, across -- across  
17 our own organization was -- was often times helpful in  
18 -- identifying improvement opportunities that might  
19 exist. And we're doing that here.

20 MR. BOB PETERS: In the process of  
21 doing that here?

22 MR. SCOTT THOMSON: Yes.

23 MR. BOB PETERS: Thank you. And you  
24 mentioned in an answer to me that when you were with  
25 Fortis or Terasen, there was also performance-based

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1 incentive rates, is that -- some performance-based  
2 measures that were -- existed?

3 MR. SCOTT THOMSON: Yeah, we -- well we  
4 -- our -- our rate-making -- I think what you're --  
5 what I was referring to is -- was there were  
6 performance based incentives for -- for staff.

7 MR. BOB PETERS: Oh.

8 MR. SCOTT THOMSON: Our remuneration  
9 structure was -- was much different.

10 MR. BOB PETERS: But you also had  
11 performance-based rates?

12 MR. SCOTT THOMSON: From time to time,  
13 we operated under -- under PBR regimes, yes.

14 MR. BOB PETERS: And in those regimes,  
15 rates would be set. And any efficiencies you found,  
16 you could keep the profit so to speak, at least for a  
17 period of time?

18 MR. SCOTT THOMSON: Well, they were  
19 shared wi -- back with customers and then ultimately  
20 rebased.

21 MR. BOB PETERS: When you were also  
22 with FortisBC, you had to deal with IFRS?

23 MR. SCOTT THOMSON: Yes, we did.

24 MR. BOB PETERS: And your decision, on  
25 behalf of your company at that time, was to move --

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1 shall I say, away from IFRS and you went and supported  
2 US GAAP?

3 MR. SCOTT THOMSON: Yes, we worked --  
4 we worked within the process and advocated strongly  
5 with -- with industry participants to -- to try and get  
6 the -- the implementation rules for IFRS changed to re  
7 -- to recognize rate regulated accounting in Canada.  
8 Ultimately that, when it appeared that the -- the  
9 international standard setters weren't going to go down  
10 that path we -- we were forced to examine alternatives  
11 and -- and changed courses and adopted US GAAP.

12 MR. BOB PETERS: I want to turn in the  
13 time I have remaining to talk about Manitoba Hydros  
14 role in developing the energy policies in the Province  
15 of Manitoba. And again, I'm sure if in your ten (10)  
16 months here, or you're comfortable answering these  
17 questions Mr. Thomson ,but please tell me.

18 Can you explain to this Board, what  
19 role, if any, Manitoba Hydro has in developing energy  
20 policies in the Province of Manitoba?

21

22 (BRIEF PAUSE)

23

24 MR. SCOTT THOMSON: Broadly, I guess we  
25 -- we have interactions on an ongoing basis with --

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1 with various different government departments. And --  
2 and of course the minister responsible for -- for Hydro  
3 has access to our -- our board -- our board meeting  
4 minutes and -- and materials, so we're invited to  
5 comment from time to time on -- on things that they're  
6 contemplating and -- and we do provide -- provide our  
7 input and our perspectives on -- on how we feel that  
8 that might impact on our operations. But ultimately  
9 the -- it's -- it's the province's prerogative to set  
10 energy policy.

11 MR. BOB PETERS: Okay, ag -- agreed.  
12 And -- but Manitoba Hydro would be expected to  
13 implement many of the province's energy policies.

14 Wouldn't that also follow?

15 MR. SCOTT THOMSON: Yes.

16 MR. BOB PETERS: And what happens --  
17 what can you tell the board if there's a -- call it a  
18 disagreement, as between the province and Manitoba  
19 Hydro? Do they -- they have the trump card?

20 MR. SCOTT THOMSON: My colleague here  
21 said, "We lose." Well, ultimately, management and  
22 myself re -- report to the board. And -- and but --  
23 but the -- the government ultimately has -- has the --  
24 the ability to direct us to -- to do certain things.

25 MR. BOB PETERS: Yup.

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1 MR. SCOTT THOMSON: Either through  
2 legislation . . .

3 MR. BOB PETERS: You know, for example,  
4 and -- and I'm -- I -- I don't know of any  
5 disagreements, first of all, that may exist or not, so,  
6 I'll -- I'm just going to pick a few things that I --  
7 I've thought about and I'll use them and you would --  
8 you can tell the Board if they apply or how -- how it  
9 would be determined and if the province has a certain  
10 desire, let's say, for wind generated electricity. And  
11 Manitoba Hydros desire doesn't line up with that.

12 Would Manitoba Hydro be given an  
13 opportunity to try to influence the province's  
14 decision, maybe not to be quite as aggressive?

15 MR. SCOTT THOMSON: Well, we -- we have  
16 dialogue around -- around those -- those types of  
17 things. The -- the most recent -- or recently where  
18 the -- the government came out with their clean energy  
19 strategy. And -- and it does speak -- speak to wind.

20 Ultimately, our -- our objective is to -  
21 - to meet the energy needs of the -- of the -- the  
22 people of the province and -- and to do that as cost  
23 effectively as we can. So we -- we examine our  
24 resource options that we have available to us and --  
25 and we identify which are the -- the most cost



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1 effective ways to go.

2 And -- and we do have wind in our -- in  
3 our supply stack. And we -- we see value to having  
4 wind in our -- our supply stack. But -- but,  
5 currently, the cost of -- of generating that -- that  
6 product and -- and from time to time we have other  
7 parties that bid into, or -- or come to us with  
8 proposals to -- to sell wind to us, we have to look at  
9 what that value is to us on our system.

10 And -- and more recently it's been -- it  
11 hasn't been economically viable to -- to initiate new  
12 projects. We can't afford to pay what it would cost a  
13 Proponent to -- to build wind and what they're looking  
14 for in terms of long term supply contracts. So in  
15 order for us to -- to enter into those agreements, we  
16 feel it would be detrimental to -- to our customers  
17 presently. And over time that -- that may well change  
18 and -- and we'll continue to revisit it from time to  
19 time.

20 MR. BOB PETERS: I want to pick up on a  
21 comment you made about Manitoba Hydro's mandate being  
22 to provide energy to satisfy the needs of the province.  
23 And you look at your resource options from, I think  
24 your words were, a least cost options. Would that be  
25 right?

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1 MR. SCOTT THOMSON: Yeah, the most --  
2 most economic options for the Corporation.

3 MR. BOB PETERS: And what if, for  
4 example, there were options that maybe have larger  
5 benefits to the province than would be -- when weighed  
6 against the impacts to consumers of the Manitoba Hydro  
7 resource option preferred plan? How does -- how does  
8 the province and Manitoba Hydro deal with those types  
9 of issues?

10 MR. SCOTT THOMSON: Well, fortunately,  
11 based on -- on the most, you know, the most recent  
12 development plan outlook that we've got, the -- the --  
13 there's -- there's congruence, I'd suppose you'd say.  
14 The -- the resource options that we'll be pursuing are  
15 the most economic for the Corporation and they have the  
16 -- the additional benefit of providing -- providing  
17 benefits to the province as a whole, and sort of  
18 outside the -- the fence of the -- the Corporation. So  
19 we haven't really run into that at this point.

20 MR. BOB PETERS: Well, my -- my point  
21 more finely, Mr. Thomson, is does Manitoba Hydro ever  
22 factor in the benefits to the province as a whole, over  
23 and above the utility when it looks at these -- these  
24 issues?

25 MR. SCOTT THOMSON: We -- we have

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1 looked at that. And -- and we'll -- we'll deal with  
2 that, I believe, at some length in the NFAAT process on  
3 -- on the resource development plans.

4 MR. BOB PETERS: All right. Maybe the  
5 last area then, Mr. Thomson, is -- if you'll indulge  
6 me. When you were with Terasen Gas and Fortis, I  
7 understood from your previous answers that you were  
8 responsible for rate and other filings with the British  
9 Columbia Utilities Commission?

10 MR. SCOTT THOMSON: Yes.

11 MR. BOB PETERS: And -- and better  
12 alert Ms. Ramage to have her hand at the ready here,  
13 but did Fortis and Terasen file documents in confidence  
14 with the BCUC?

15 MR. SCOTT THOMSON: Yes, and/or  
16 documents were dealt with in-camera at -- from time to  
17 time.

18 MR. BOB PETERS: And those would be  
19 documents that you would consider to be key documents  
20 in decision-making processes?

21 MR. SCOTT THOMSON: Yes, and they were  
22 commercially sensitive.

23 MR. BOB PETERS: And when you said you  
24 dealt with them in-camera, did that mean the -- the  
25 Intervenor were excluded from the hearing room, or

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1 were they still left in the hearing room?

2 MR. SCOTT THOMSON: It depended on the  
3 nature. In some instances, the -- the panel received  
4 filings or -- or the commission received filings,  
5 certain -- certain gas supply contracts or storage  
6 arrangements. And they didn't have public input on  
7 them. They -- they dealt with them themselves.

8 MR. BOB PETERS: Well, for those  
9 contracts -- and you'd be talking largely natural gas,  
10 I suppose, commodity and transportation contracts?

11 MR. SCOTT THOMSON: In that case, yes.

12 MR. BOB PETERS: Was there a redacted  
13 version put on the public record?

14 MR. SCOTT THOMSON: Generally not.

15 MR. BOB PETERS: And in some  
16 circumstances, when the commercial sensitivity was seen  
17 as less, the Board went in-camera to deal with them?

18 MR. SCOTT THOMSON: Yes. Generally  
19 speaking, that was the case. Occasionally, cer --  
20 certain -- at times, some items were dealt with through  
21 confidenti under -- confidentiality undertakings of --  
22 of participants, as well.

23 MR. BOB PETERS: And that was the point  
24 I was going to come to, was that -- can you just  
25 explain to the Board how that worked? It would be

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1 Intervenors, their lawyers, their representatives.

2 They would have to sign confidentiality  
3 undertakings not to disclose the information?

4 MR. SCOTT THOMSON: Yes. And it was  
5 the Board's discretion as to whether -- based on  
6 submissions of parties, whether -- whether that was  
7 reasonable in the circumstances or whether the Board  
8 would just -- just review it themselves.

9 MR. BOB PETERS: Mr. Chairman, I'd like  
10 to thank Mr. Thomson for fielding my questions and  
11 providing his answers. I've enjoyed the opportunity to  
12 ask them of him. It's a bit wide ranging. And I look  
13 forward that maybe our -- our paths will cross again,  
14 maybe on or off the microphone. But thank you, sir.

15 MR. SCOTT THOMSON: Thanks.

16 THE CHAIRPERSON: Thank you, Mr.  
17 Peters. Mr. Williams...?

18

19 CROSS-EXAMINATION BY MR. BYRON WILLIAMS:

20 MR. BYRON WILLIAMS: Yes, thank you,  
21 members of the Board. And, Mr. Thomson, you'll find,  
22 as you see more of these hearings, that while Mr.  
23 Peters's questions tend to go on forever, mine -- mine  
24 tend to be quite a bit shorter so.

25 MR. SCOTT THOMSON: I can't promise my

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1 bottom line?

2 MR. SCOTT THOMSON: Again, I wasn't --  
3 I wasn't aware that it was that significant, but I'll  
4 accept that.

5 MR. ANTOINE HACAULT: Are you familiar  
6 with a review of BC Hydro which was shown to have been  
7 completed in or about June of 2011, and also deals with  
8 its recommendations on cuts to staffing levels?

9 MR. SCOTT THOMSON: Yes, I'm familiar  
10 with that report.

11 MR. ANTOINE HACAULT: And do you recall  
12 at all the nature and extent of the cuts to the  
13 employee labour force that was recommended in that  
14 report?

15 MR. SCOTT THOMSON: My recollection, it  
16 was on the order of a thousand (1,000).

17 MR. ANTOINE HACAULT: That's pretty  
18 close to my calculation, too. The report indicates  
19 that the total equivalent staff numbers were five  
20 thousand eight hundred (5,800) and some in 2011, and  
21 the report was recommending that a reasonable staffing  
22 level would be in the order of forty-eight hundred  
23 (4,800) employees.

24 Does that sound right to you?

25 MR. SCOTT THOMSON: Yeah. I -- I seem

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1 to recall that. What -- what -- again, what you need  
2 to be careful about when -- when you look at that, BC  
3 Hydro had outsourced significant components of its  
4 operations into separate subsidiaries that aren't  
5 encompassed by those numbers.

6 MR. ANTOINE HACAULT: But it is a real  
7 cut of about a thousand (1,000) employees that is being  
8 recommended, correct?

9 MR. SCOTT THOMSON: That's -- that's  
10 what the report suggested, yes.

11

12 (BRIEF PAUSE)

13

14 MR. ANTOINE HACAULT: Can you offer any  
15 insight on why those two (2) utilities would be able to  
16 make such huge cuts in their labour force and still  
17 continue to deliver their services?

18 MR. SCOTT THOMSON: I don't think that  
19 they'll be able to deliver their services in the same  
20 fashion that they had previously, which is what I was  
21 referring to.

22 I think that, you know, if you add back,  
23 for instance, on -- on BC Hydro's roughly twenty-five  
24 hundred (2,500) people that -- that work through Centra  
25 Business Services, which was their customer care and --

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1 and certain other functions that they -- they had  
2 outsourced, that puts you on the order of about eight  
3 thousand (8,000) employees.

4 And where they -- where they are in  
5 terms of -- they've -- they've got a major generating  
6 project -- generation project that's -- that's underway  
7 now, the planning for the -- the Site C development,  
8 which is a 900-megawatt hydro project. And they do  
9 have refurbishment activities, but their -- their  
10 approach has been significantly to deal, as I  
11 understand it, with -- with outsourced activities.

12 So they haven't achieved the recommended  
13 changes yet, so I think that it may be premature to --  
14 to attempt to answer why they can do it when they --  
15 they haven't achieved the -- the overall savings, some  
16 of which they've done through attrition and -- and had  
17 been planned. And -- and again, a hiring freeze.

18 But the focus of their activities -- and  
19 I -- and -- and I'm much more familiar with -- with BC  
20 and -- and much less with -- with what they're planning  
21 in Quebec, but they -- I know that Que -- Hydro Quebec  
22 has a substantial workforce in terms of overall size.

23 MR. ANTOINE HACAULT: So, one of the  
24 differences might be that in Quebec they can order  
25 these cuts whereas the Public Utilities Board here has



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1 no such jurisdiction, they can only express concerns.

2 MR. SCOTT THOMSON: The -- the Regie in  
3 -- in Quebec, I don't think that they can order the  
4 staffing level cuts, they can set rates though, which  
5 provides a -- you know -- and in particular, more so,  
6 the investor-owned utilities, but your inability to  
7 achieve a return. And both Hydro Quebec and -- and BC  
8 Hydro set rates differently than -- than we do here.  
9 They -- it's -- it's a rate-based rate of return  
10 approach and they actually generate substantial  
11 revenues for the provincial treasury.

12 MR. ANTOINE HACAULT: I wasn't  
13 suggesting it was the Regie in Quebec that was ordering  
14 this. It was an announcement by the Minister of  
15 Finance that these cuts would in fact occur. I'd like  
16 you -- to take you to -- just general principles in  
17 rate setting as it relates to your vision for Manitoba  
18 Hydro.

19 So, if you had to describe to me -- and  
20 I'm asking you to please do so -- what's your vision as  
21 it relates to rate setting when it comes to Manitoba  
22 consumers?

23 MR. SCOTT THOMSON: Well, we'll  
24 continue to follow a -- a cost recovery approach while  
25 -- while planning for -- while planning for the future

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1 development of the province over time. We -- we do, as  
2 I had explained earlier, we do need to build up the --  
3 the capital structure of the Company over time to -- to  
4 support -- to support our capital investment program  
5 for the benefit of our customers.

6                   So our customers ultimately are going to  
7 pay for all of this and -- and we need to preserve the  
8 -- the capital structure of the Company. We've got to  
9 balance that off with the -- the rate pressures or --  
10 sorry, yeah, the affordability question but both of  
11 those things need to be met. We -- as much as we'd  
12 like to, we can't -- we can't just maintain rates --  
13 rates at a low level or -- or preserve rate increases  
14 at or below the rate of inflation at the expense of --  
15 of the financial integrity of the Company, because  
16 that's not in our customers' interest long term either.

17                   We -- we have the ability, and I think  
18 that from a -- from a policy or philosophical  
19 standpoint we have the ability that we don't have to  
20 match rates in lock step with -- with revenue  
21 requirements like -- and in a rate-based rate of return  
22 approach to rate setting would do, where you tend to  
23 have a lot more rate volatility. At least that's been  
24 my experience and that seems to be the -- the  
25 experience that -- that certainly BC Hydro has -- has

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1 seen over the last number of years.

2 We will endeavour to maintain the rate  
3 advantage vis a vis competing jurisdictions. It's --  
4 it's important I think for -- for commercial and  
5 industrial customers who -- whose competition isn't in  
6 Manitoba that -- that relative to what's happening in -  
7 - in other jurisdictions their -- they can continue to  
8 see an advantage to -- to being here.

9 Our outlook suggests that that's --  
10 that's doable, certainly in the -- in the short to  
11 medium term where -- where our rates are lower to start  
12 with. And while -- while they are projected to go up  
13 at greater than the rate of inflation, the competing  
14 hydro jurisdictions which tend to have the -- the lower  
15 rates have -- you know, BC's had high single digit  
16 increases the last couple of years, they've got  
17 literally billions of dollars of unrecognized costs  
18 that they're carrying on the balance sheet in deferral  
19 accounts that there's going to be a day of reckoning  
20 around.

21 So, I -- I think that even with the rate  
22 increases that we're anticipating, our customers will  
23 continue to enjoy an advantage over -- over the rest of  
24 Canada and -- and the US.

25 MR. ANTOINE HACAULT: Thank you. To

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1 probe a little bit deeper into this -- and it was a --  
2 a former chair of this Board who used to, I think,  
3 refer to the little old lady on Agnes Street, and  
4 whether it should be her or her grandchild that should  
5 be paying for Conawapa, take for example.

6 Do you have any visions, speaking  
7 corporately, that Manitoba Hydro has on whether that  
8 asset is used and useful for the little old grandma on  
9 Agnes Street or the grandchild?

10 MR. SCOTT THOMSON: Well, I think that  
11 -- that there -- there's sort of a spectrum of views in  
12 terms of dealing with the issue of inter-generational  
13 equity, which I think you're -- you're referring to.  
14 We've got a plan for -- for the long term, and  
15 ultimately maintain the -- so the -- maintain the  
16 financial integrity of the -- of the Corporation  
17 provides benefits to the -- to the little old lady.

18 It -- it also ensures that her -- her  
19 grandchildren will -- will have electricity down the  
20 road. Again, it's -- it's striking a balance. We're -  
21 - we're not recognizing the -- directly the -- the cost  
22 of service impacts of those projects until they -- they  
23 come into service other than, again, over time, we'll  
24 be looking to -- to beef up the -- the capital  
25 structure of the Company.

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1                   We're not -- we're not -- our -- what's  
2 before the Board right now in this two (2) year test  
3 period is not -- the rate increases aren't there to pay  
4 for future assets that are going to come into service  
5 in -- in 2025. They're -- they're to meet a shortfall  
6 in -- in revenues that are a consequence of the current  
7 market conditions largely.

8                   MR. ANTOINE HACAULT: I'm not so sure I  
9 understand what the vision is from your perspective.  
10 You've explained you have to weigh things, but -- so is  
11 it the grandma who pays for the 25 percent equity, or  
12 should it be the grandchild?

13                  MR. SCOTT THOMSON: I think the answer  
14 is both.

15                  MR. ANTOINE HACAULT: Thank you. And  
16 who pays the greater part of it?

17                  MR. SCOTT THOMSON: Well, the -- the  
18 cost of recovery of the assets will be over their --  
19 their life and the -- the period of their use. So,  
20 generally speaking, it's the user that pays.

21                  MR. ANTOINE HACAULT: In fact, for  
22 bigger projects, the capital, as you've indicated in  
23 your direct testimony, is expected to last eighty (80)  
24 to a hundred years except for the turbines in them. Is  
25 that correct?

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1 MR. SCOTT THOMSON: Yeah, the civil  
2 works tend to have the -- the longer life -- lifetime.

3 MR. ANTOINE HACAULT: So even to that  
4 extent, if the grandchild is putting the 25 percent in,  
5 he's not likely to see all the benefits of his 25  
6 percent contribution, correct?

7 MR. SCOTT THOMSON: Well, the -- the  
8 equity underpinning -- there's two (2) ways that we can  
9 -- we can get this. The government can inject it and -  
10 - and taxpayers, including the -- the grandchild and --  
11 and the -- the old lady, are going to pay for it  
12 through taxes. And -- and the debt service cost  
13 currently or -- or over time, we're -- we're -- we will  
14 be amortizing the assets over their life and will  
15 recover those cost in rates.

16 And -- and the equity -- because we  
17 don't -- we don't generate revenue requirement around  
18 the equity; it offsets the -- the cost of the debt  
19 service. If we -- if we leverage it a hundred percent,  
20 you'd pay the -- the debt service costs on -- on the  
21 entire investment on a declining basis over its life.

22 So there is a benefit in rates to -- to  
23 capitalizing it because we don't earn an -- an 8 or 9  
24 or 10 percent return on the equity. Our rate setting  
25 is not driven that way.

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1 MR. ANTOINE HACAULT: Thank you. The  
2 next subject area which I'd like to touch on is IFR.

3 THE CHAIRPERSON: Excuse me, Mr.  
4 Hacaault. Did you want to respond, Mr. Warden?

5 MR. VINCE WARDEN: Well, I -- I just  
6 wanted to clarify that although our application did  
7 include time-of-use rates for industrial customers,  
8 this Board has decided not to consider that in this  
9 proceeding. So the -- the -- or the -- any rate  
10 increase that we are granted for April the 1st, 2013,  
11 will be across the board.

12

13 CONTINUED BY MR. ANTOINE HACAULT:

14 MR. ANTOINE HACAULT: Thank you, and I  
15 didn't mean to cut you off. Sorry if you needed to  
16 respond. If -- if you do in the future, just let me  
17 know and -- okay.

18 When you testified in front of the  
19 Legislative Assembly on April 4 of 2012, you'd made  
20 some comments that you were involved in lobbying with  
21 respect to the International Accounting Standards  
22 Board, correct?

23 MR. SCOTT THOMSON: That's correct.

24 MR. ANTOINE HACAULT: And you made the  
25 statement in April to the effect that, frankly, the

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1 industry doesn't believe that IFRS -- that doesn't reg  
2 -- recognize regulatory accounting is appropriate.

3 On what basis is the industry against  
4 this principle that IFRS wants to implement?

5 MR. SCOTT THOMSON: When -- when the  
6 Europeans introduced IFRS broadly in the utility  
7 industry there and in Australia, they -- they de-  
8 recognized any -- any rate-regulated assets. And --  
9 and there was also -- rate making -- again, there were  
10 some differences in -- as I understand it, in -- in  
11 European rate -- rate setting. Often it was targeted.

12 It wasn't the traditional cost -- cost-  
13 of-service-based approach that we -- we tend to use in  
14 Canada and the US. And so they didn't have the  
15 significant assets on their balance sheets that -- that  
16 many Canadian and US utilities have.

17 So -- like our demand-side management  
18 investments, which are expected to -- to yield benefits  
19 over an extended number of years. Under IFRS you've  
20 got to write them off as incurred. And -- and that's,  
21 in large measure, what -- what drives the change in our  
22 -- in our outlook where -- where you'll see going  
23 forward once we -- once we bring IFRS there's a  
24 decrease in our -- in our equity from year over year.

25 So the ability to recognize assets on



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1 your balance sheet or -- or liabilities -- and, again,  
2 many companies have tracking accounts for commodity  
3 costs or power purchase costs where they -- the --  
4 unlike us, where we just -- we accept that -- that the  
5 -- the costs are difference -- different than forecast  
6 for -- for electricity and it hits the bottom line.

7                   Many utilities will -- will track that  
8 and -- and amortize it over a period -- short --  
9 usually short term, but in -- in that case. But there  
10 are benefits to -- to having those accounts in place.  
11 And -- and they -- they tend to reflect the reality in  
12 those rate-making regimes where those costs are allowed  
13 to be recovered from customers.

14                   And they match the -- they -- in our --  
15 in my view and -- and generally, I think it's held in  
16 the industry that it better matches the revenues and  
17 expenses. It -- it reduces the amount of reported  
18 volatility in, and it also smooths -- tends to smooth -  
19 - have the potential to smooth rate making.

20                   Now, regulators can -- can ignore the  
21 effects of those or -- or continue to have deferral  
22 accounts for -- for rate-making purposes. But again,  
23 then it starts to introduce a disconnect between your  
24 books of account for external reporting purposes and  
25 your books for -- for rate-making purposes. And -- and