

2017/18 & 2018/19 ELECTRIC GENERAL RATE APPLICATION

Manitoba Hydro Undertaking #7

For Manitoba Hydro to attempt to locate the source of the graph found in the December 4, 2017 Manitoba Hydro presentation at page 72. And point to where the data is located on the record in order to provide that presentation depicted on page 72.

Response:

Please find the data for the graph found in slide 72 of Manitoba Hydro’s December 4, 2017 presentation below (Figure 2). The source of the data is as follows:

	Rate Increases	Income Statement Items	Domestic Load
Actuals	PUB/MH I-3a	2014/15 to 2016/17 Actuals – Appendix 6.6 of Tab 6 From previous Applications (public record): <ul style="list-style-type: none"> • 2012/13 and 2013/14 Actuals – Tab 5 of 2014/15 & 2015/16 GRA • 2011/12 Actuals – PUB/MH I-52(a) from 2012/13 & 2013/14 GRA • 2009/10 and 2010/11 Actuals – Tab 5 of 2012/13 & 2013/14 GRA • 2007/08 and 2008/09 Actuals – Tab 4 of 2010/11 & 2011/12 GRA • 2005/06 and 2006/07 Actuals – Tab 4 2008/09 GRA 	PUB MFR 65 (Updated) (Table 20)

		<ul style="list-style-type: none"> • 2003/04 and 2004/05 Actuals – Tab 4 of 2006/07 & 2007/08 GRA • 2001/02 and 2002/03 Actuals – Tab 1 of 2004/05 GRA • 2000/01 Actuals – Status Update Filing Fall 2001, Section C, Page 18 • 1999/00 Actuals – PUB/MH ACQ I-51 (2002) 	
MH16 Update with Interim	Appendix 3.8 of Application	Appendix 3.8 of Application	PUB MFR 24 (Updated)
MH16 Update with Interim with MH15 Rates	Appendix 1.3 of Manitoba Hydro’s Rebuttal Evidence	Appendix 1.3 of Manitoba Hydro’s Rebuttal Evidence	PUB MFR 24 (Updated)

Manitoba Hydro recognized that while Winnipeg Hydro Revenue is included in General Consumers Revenue, the associated energy is not included in Domestic Load (GWh). As such, Manitoba Hydro has reduced Winnipeg Hydro Revenue in the calculation of Net Cost which results in a minor revision to the graph included in the December 4, 2017 Presentation. A revised graph is included below (Figure 1).

Figure 1

MH16 Update with Interim Rate Increases and Net Cost/ Domestic Load

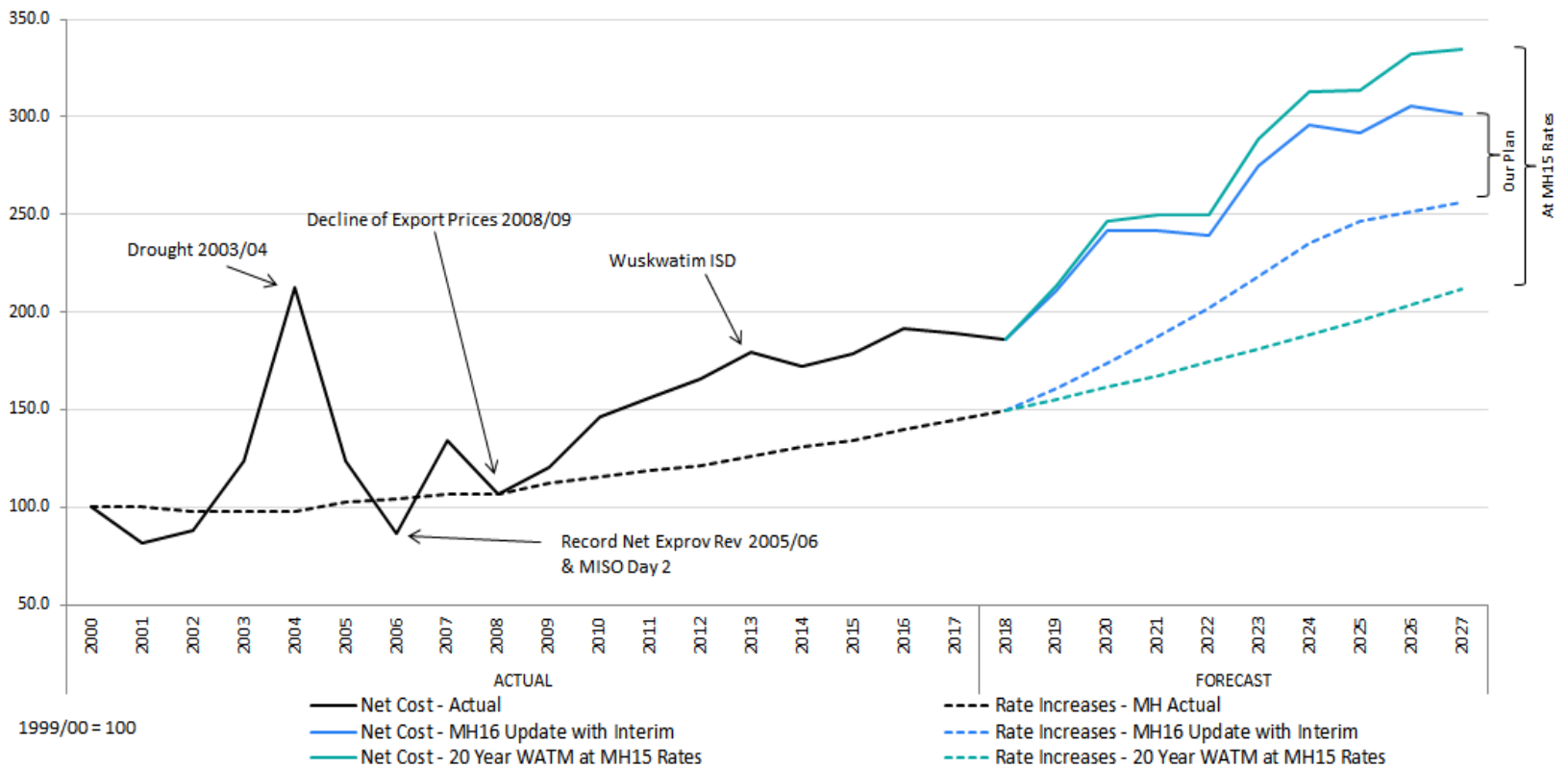


Figure 2

MH16 Update with Interim														
Fiscal Year*	Rate Increase	Rate Increase Index	Total Expenses**	Winnipeg Hydro Revenue	Extra-Provincial Revenue	Other Revenue***	Non-Controlling Interest	Net Movement	Net Cost	Domestic Load (GWh)	Net Cost/MWh	Net Cost/MWh Increase	Net Cost Index	
<i>Millions of Dollars</i>														
	A	B	C	D	E	F	G	H	I=C-D-E-F-G-H	J	K=I/J*1000	L	M	
Actual	2000		100	\$ 976	\$ 42	\$ 376	\$ 11	\$ -	\$ -	\$ 547	16 696	33		100
	2001	0.00%	100	1 002	46	480	7	-	-	469	17 590	27	-18.7%	81
	2002	-1.92%	98	1 158	47	588	11	-	-	512	17 805	29	7.9%	88
	2003	0.00%	98	1 277	20	463	15	-	-	779	19 246	40	40.7%	123
	2004	-0.72%	97	1 715	-	351	18	-	-	1 346	19 280	70	72.6%	213
	2005	5.00%	102	1 370	-	554	15	-	-	801	19 735	41	-41.9%	124
	2006	2.25%	105	1 408	-	827	18	-	-	563	19 935	28	-30.4%	86
	2007	2.25%	107	1 511	-	592	16	-	-	902	20 510	44	55.7%	134
	2008	0.00%	107	1 370	-	625	8	-	-	738	21 061	35	-20.4%	107
	2009	5.00%	112	1 478	-	623	16	-	-	839	21 210	40	12.9%	121
	2010	2.84%	115	1 418	-	427	6	-	-	985	20 486	48	21.6%	147
	2011	2.80%	119	1 466	-	398	6	-	-	1 062	20 786	51	6.2%	156
	2012	2.00%	121	1 498	-	363	6	-	-	1 130	20 771	54	6.5%	166
	2013	4.40%	126	1 659	-	353	30	13	-	1 263	21 477	59	8.1%	179
	2014	3.50%	131	1 742	-	439	22	22	-	1 259	22 338	56	-4.1%	172
	2015	2.75%	134	1 779	-	384	30	11	41	1 313	22 458	58	3.7%	178
	2016	3.95%	140	1 892	-	415	31	10	74	1 362	21 654	63	7.5%	192
	2017	3.36%	144	1 952	-	460	48	12	66	1 365	22 025	62	-1.4%	189
Forecast	2018	3.36%	149	1 995	-	514	30	8	72	1 371	22 510	61	-1.8%	186
	2019	7.90%	161	2 150	-	469	31	1	114	1 535	22 224	69	13.4%	211
	2020	7.90%	174	2 655	-	420	31	(2)	464	1 741	21 977	79	14.7%	242
	2021	7.90%	187	2 392	-	567	33	(5)	71	1 726	21 750	79	0.2%	242
	2022	7.90%	202	2 507	-	693	33	(9)	64	1 725	21 971	79	-1.1%	239
	2023	7.90%	218	2 822	-	779	34	(10)	43	1 977	21 940	90	14.8%	275
	2024	7.90%	235	2 893	-	788	34	(11)	(48)	2 130	21 947	97	7.7%	296
	2025	4.54%	246	2 904	-	805	35	(3)	(50)	2 117	22 103	96	-1.3%	292
	2026	2.00%	251	2 887	-	667	35	(2)	(49)	2 236	22 303	100	4.6%	306
	2027	2.00%	256	2 889	-	671	36	(3)	(45)	2 231	22 531	99	-1.2%	302

* CGAAP 2000-2014, IFRS 2015-2027

** Includes Water Rentals & Assessments and Fuel and Power Purchased

***2017 includes \$20 million non-recurring gain

MH16 Update with Interim with 20 Year WATM and MH15 Rates													
Fiscal Year*	Rate Increase	Rate Increase Index	Total Expenses**	Winnipeg Hydro Revenue	Extra-Provincial Revenue	Other Revenue***	Non-Controlling Interest	Net Movement	Net Cost	Domestic Load (GWh)	Net Cost/MWh	Net Yr over Yr Increase	Net Cost Index
<i>Millions of Dollars</i>													
	A	B	C	D	E	F	G	H	I=C-D-E-F-G-H	J	K=I/J*1000	L	M
Actual 2000		100	\$ 976	\$ 42	\$ 376	\$ 11	\$ -	\$ -	\$ 547	16 696	33		100
2001	0.00%	100	1 002	46	480	7	-	-	469	17 590	27	-18.7%	81
2002	-1.92%	98	1 158	47	588	11	-	-	512	17 805	29	7.9%	88
2003	0.00%	98	1 277	20	463	15	-	-	779	19 246	40	40.7%	123
2004	-0.72%	97	1 715	-	351	18	-	-	1 346	19 280	70	72.6%	213
2005	5.00%	102	1 370	-	554	15	-	-	801	19 735	41	-41.9%	124
2006	2.25%	105	1 408	-	827	18	-	-	563	19 935	28	-30.4%	86
2007	2.25%	107	1 511	-	592	16	-	-	902	20 510	44	55.7%	134
2008	0.00%	107	1 370	-	625	8	-	-	738	21 061	35	-20.4%	107
2009	5.00%	112	1 478	-	623	16	-	-	839	21 210	40	12.9%	121
2010	2.84%	115	1 418	-	427	6	-	-	985	20 486	48	21.6%	147
2011	2.80%	119	1 466	-	398	6	-	-	1 062	20 786	51	6.2%	156
2012	2.00%	121	1 498	-	363	6	-	-	1 130	20 771	54	6.5%	166
2013	4.40%	126	1 659	-	353	30	13	-	1 263	21 477	59	8.1%	179
2014	3.50%	131	1 742	-	439	22	22	-	1 259	22 338	56	-4.1%	172
2015	2.75%	134	1 779	-	384	30	11	41	1 313	22 458	58	3.7%	178
2016	3.95%	140	1 892	-	415	31	10	74	1 362	21 654	63	7.5%	192
2017	3.36%	144	1 952	-	460	48	12	66	1 365	22 025	62	-1.4%	189
Forecast 2018	3.36%	149	1 998	-	514	30	8	72	1 374	22 510	61	-1.8%	186
2019	3.95%	155	2 171	-	469	31	1	114	1 556	22 224	70	14.7%	213
2020	3.95%	161	2 692	-	420	31	(2)	464	1 778	21 977	81	15.6%	246
2021	3.95%	168	2 449	-	567	33	(5)	71	1 783	21 750	82	1.3%	249
2022	3.95%	174	2 584	-	693	33	(9)	64	1 802	21 971	82	0.0%	250
2023	3.95%	181	2 925	-	779	34	(10)	43	2 080	21 940	95	15.6%	288
2024	3.95%	188	3 022	-	788	34	(11)	(48)	2 259	21 947	103	8.6%	313
2025	3.95%	196	3 067	-	805	35	(3)	(50)	2 280	22 103	103	0.2%	314
2026	3.95%	203	3 085	-	667	35	(2)	(49)	2 433	22 303	109	5.8%	332
2027	3.95%	211	3 136	-	671	36	(3)	(45)	2 478	22 531	110	0.8%	335

* CGAAP 2000-2014, IFRS 2015-2027

** Includes Water Rentals & Assessments and Fuel and Power Purchased

***2017 includes \$20 million non-recurring gain