Morrison Park Advisors Calculation of Manitoba Hydro Debt Ratios (Electric Operations Only) Attachment to MPA Presentation to PUB - January 15, 2018 (Refer to pp. 17 - 18)

Electric Operations Debt Ratio Calculation (Source: PUB/MH I - 33)

				Adjustments		Unamortized Customer	Unamortized Customer	Unamortized	Accumulated Other	Non-								
Fiscal Year	Retained	Retained	Retained	and	Retained	Contributions	Contributions	Customer	Comprehensiv	controlling	Long-Term	Sinking Fund	Short-term					Accounting
Ended	Earnings	Earnings Gas	Earnings Subs	Eliminations	Earnings	Consolidated	Gas	Contributions	e Income	Interest	Debt	Investment	Investments	Net Equity	Net Debt	Equity Ratio	Debt Ratio	Standard
2012	2450	34	26		2390	318	33	285	327	100	9084	372	42	3102	8670	26.4%	73.6%	CGAAP
2013	2542	42	32		2468	340	33	307	299	95	9690	352	24	3169	9314	25.4%	74.6%	CGAAP
2014	2716	62	39		2615	381	42	339	96	73	10563	111	131	3123	10321	23.2%	76.8%	CGAAP
2015	2779	66	48	6	2659	457	42	415	-720	120	12375	114	482	2474	11779	17.4%	82.6%	IFRS
2016	2828	65	57	10	2696	534	45	489	-776	140	14187	0	944	2549	13243	16.1%	83.9%	IFRS
2017	2899	69	69	12	2749	651	45	606	-709	170	16078	0	634	2816	15444	15.4%	84.6%	IFRS

Adjusted for IFRS impact on pension treatment in AOCI only (Source of pension amount included in AOCI: MIPUG/MH I - 20: 2015 \$559 M; 2016 \$567 M; 2017 \$473 M)

Fiscal Year Ended	Retained Earnings	Retained Earnings Gas	Retained Earnings Subs	Adjustments and Eliminations	Retained Earnings	Unamortized Customer Contributions Consolidated	Unamortized Customer Contributions Gas	Unamortized Customer Contributions	Accumulated Other Comprehensiv e Income	Non- controlling Interest	Long-Term Debt	Sinking Fund Investment	Short-term Investments	Net Equity	Net Debt	Equity Ratio	Debt Ratio	Accounting Standard
2012	2450	24	20		2200	210	22	205	227	100	0084	272	42	2102	8670	26.40/	72 60/	CCAAD
2012	2450	34	26		2390	318	33	285	327	100	9084	372	42	3102		26.4%	73.6%	CGAAP
2013	2542	42	32		2468	340	33	307	299	95	9690	352	24	3169	9314	25.4%	74.6%	CGAAP
2014	2716	62	39		2615	381	42	339	96	73	10563	111	131	3123	10321	23.2%	76.8%	CGAAP
2015	2779	66	48	6	2659	457	42	415	-161	120	12375	114	482	3033	11779	20.5%	79.5%	Adjusted
2016	2828	65	57	10	2696	534	45	489	-209	140	14187	0	944	3116	13243	19.0%	81.0%	Adjusted
2017	2899	69	69	12	2749	651	45	606	-236	170	16078	0	634	3289	15444	17.6%	82.4%	Adjusted
2017 Adjusted fo										170	0505		624	2280	9061	26.0%	72.2%	Anticontend
2017	2899	69	69	12	2749	651	45	606	-236	170	9595	0	634	3289	8961	26.8%	73.2%	Adjusted
<u>2017 Adjusted (\</u> 2017	/ersion II): Ren 2899	<u>nove \$6483 from</u> 69	<u>i debt, but do not</u> 69	<u>: make adjustmer</u> 12	n <u>ts for IFRS im</u> 2749	pact on AOCI 651	45	606	-709	170	9595	0	634	2816	8961	23.9%	76.1%	IFRS
2017	2899	69	69	12	2749	160	45	606	-709	170	9595	U	034	2816	8961	23.9%	76.1%	IFKS

2012 Adjusted: Make an adjustment to AOCI to approximate what equity ratio might have been under IFRS in that year (I.e., - \$350 M, chosen for illustrative purposes only, based on the April 1, 2014 amount of - \$432 M reported in MIPUG/MH I - 20]	

2012	2450	34	26	2390	318	33	285	-23	100	9084	372	42	2752	8670	24.1%	75.9%	Adjusted