

**MANITOBA HYDRO**

**2012/13 & 2013/14 ELECTRIC GENERAL RATE APPLICATION**

**UNDERTAKING PROVIDED BY: D. RAINKIE**

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**Manitoba Hydro Undertaking # 77**

Provide a revised copy of the table shown in MH Exhibit # 22 in the response to MIPUG Pre-Ask # 10, Page 2 of 3: HGEN-NEW New Hydraulic Generating Station – Composite with additional columns showing the composite rate calculation using the ELG Without Net Salvage depreciation rates provided in Manitoba Hydro Exhibit # 22 in response to MIPUG Pre-Ask # 5.

**Response:**

The following table provides a composite depreciation rate calculated for New Generating Stations derived by applying the following Wuskwatim depreciation rates to the consolidated surviving original cost for the existing hydraulic generating station asset accounts:

- ASL Without Net Salvage depreciation rates as shown in Appendix 5.7 on pages III-4 – III-8 of the 2010 Depreciation Study, as applied in IFF12 for Wuskwatim commencing in 2014/15. Please note that for the 2012/13 and 2013/14 test years, Manitoba Hydro applied ASL with Net Salvage depreciation rates.
- ELG Without Net Salvage depreciation rates as shown in MH Exhibit # 22 in the response to MIPUG Pre-Ask # 5.

Acct	Depreciable Group	Surviving Original Cost * at 03/31/2010	Total Depreciation @ Wuskwatim Rates:		Total Depreciation @ MIPUG Pre-Ask-5 Rates:	
			ASL Without Net Salvage Expense	Rate (%)	ELG Without Net Salvage Expense	Rate (%)
11xxA	DAMS, DYKES AND WEIRS	302,176,910	2,417,415	0.80	2,628,939	0.87
11xxB	POWERHOUSE	981,228,410	7,849,827	0.80	8,536,687	0.87
11xxC	POWERHOUSE RENOVATIONS	-	-	4.00	-	4.00
11xxD	SPILLWAY	314,201,886	4,189,358	1.33	6,472,559	2.06
11xxE	WATER CONTROL SYSTEMS	281,157,726	5,623,155	2.00	5,819,965	2.07
11xxF	ROADS AND SITE IMPROVEMENTS	57,586,303	1,151,726	2.00	1,359,037	2.36
11xxG	TURBINES AND GENERATORS	1,038,058,205	15,970,126	1.54	17,127,960	1.65
11xxH	GOVERNORS AND EXCITATION SYSTEM	21,666,854	433,337	2.00	461,504	2.13
11xxP	A/C ELECTRICAL POWER SYSTEMS	266,199,398	5,323,988	2.00	6,282,306	2.36
11xxQ	INSTRUMENTATION, CONTROL AND D/C SYSTEMS	66,236,674	2,879,855	4.35	3,643,017	5.50
11xxR	AUXILIARY STATION PROCESSES	112,728,332	2,818,208	2.50	3,753,853	3.33
11xxX	SUPPORT BUILDINGS	40,549,317	623,836	1.54	737,998	1.82
11xxW	SUPPORT BUILDING RENOVATIONS	-	-	5.00	-	5.00
	<b>HYDRAULIC - COMPOSITE FOR NEW GENERATION</b>	<b>3,481,790,015</b>	<b>49,280,832</b>	<b>1.42</b>	<b>56,823,825</b>	<b>1.63</b>

\* Surviving Original Cost: Total by component for all existing Hydraulic Generating Stations - excludes Lake Winnipeg Regulation, Churchill River Diversion & Infrastructure assets.