

MANITOBA HYDRO
2012/13 AND 2013/14 GENERAL RATE APPLICATION HEARING

Exhibit List

(as of February 7, 2013)

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Ex. #PUB/MH-9-102	“	“	“	Diesel Communities – Supply Option
Ex. #PUB/MH-9-103	“	“	“	North-Central Communities – GHG Emissions
Ex. #PUB/MH-9-104	“	“	“	Diesel Rates – Finalization
Ex. #PUB/MH-9-105	“	“	“	Summary of Quarterly Reports – Energy Sources
Ex. #PUB/MH-10-1	Deficiency List of the PUB to Manitoba Hydro regarding Manitoba Hydro’s First-Round			

	Information Requests, dated October 16, 2012			
Ex. #PUB/MH-10-2	Response of Manitoba Hydro to the Deficiency List of the PUB to Manitoba Hydro regarding Manitoba Hydro's First-Round Information Requests, dated October 16, 2012			
Ex. #PUB/MIPUG-11-1	Information Requests of the Public Utilities Board to MIPUG (Mr. Bowman), and MIPUG's Responses			2012 MIPUG Economic Impact Study
Ex. #PUB/MIPUG-11-2	“	“	“	Overview of MIPUG Membership
Ex. #PUB/MIPUG-11-3	“	“	“	MIPUG Principles
Ex. #PUB/MIPUG-11-4	“	“	“	Rates vs. Costs
Ex. #PUB/MIPUG-11-5	“	“	“	MIPUG Load Forecast
Ex. #PUB/MIPUG-11-6	“	“	“	Enumeration of “Over Focus on Short Run Costs”
Ex. #PUB/MIPUG-11-7	“	“	“	Wuskwatim – Near-Term Adverse Impacts
Ex. #PUB/MIPUG-11-8	“	“	“	Role of Reserve – Equity Levels
Ex. #PUB/MIPUG-11-9	“	“	“	Hydraulic Generation Levels
Ex. #PUB/MIPUG-11-10	“	“	“	Changes to Financial Targets
Ex. #PUB/MIPUG-11-11	“	“	“	Level of Rates and Rate Options
Ex. #PUB/MIPUG-11-12	“	“	“	Accounting Changes
Ex. #PUB/MIPUG-11-13	“	“	“	Staffing Levels
Ex. #PUB/MIPUG-11-14	“	“	“	Net Salvage Costs
Ex. #PUB/MIPUG-11-15	“	“	“	Capitalization of EFT Additions
Ex. #PUB/MIPUG-11-16	“	“	“	Wuskwatim – Economic Benefit
Ex. #PUB/MIPUG-11-17	“	“	“	Amortization Reserve Variation

Ex. #PUB/MIPUG-11-18	“	“	“	Net Salvage Removal from Depreciation
Ex. #PUB/MIPUG-11-19	“	“	“	Annual Contributions to Reserves
Ex. #PUB/MIPUG-11-20	“	“	“	Final Rate Conclusions
Ex. #PUB/MIPUG-11-21	“	“	“	Curtable Rate Program
Ex. #PUB/MIPUG-11-22	“	“	“	Curtable Rate Program
Ex. #PUB/MIPUG-11-23	“	“	“	OM&A Trend
Ex. #PUB/MIPUG-11-24	“	“	“	Update of Tables to Reflect IFF12-1
Ex. #PUB/MIPUG-11-25	“	“	“	Resume – InterGroup
Ex. #PUB/GAC-12-1	Information Requests of the Public Utilities Board to GAC (Mr. Chernick), and GAC’s Responses			Access to Information
Ex. #PUB/GAC-12-2	“	“	“	Use of Levelized Cost
Ex. #PUB/GAC-12-3	“	“	“	Marginal Cost Calculations
Ex. #PUB/GAC-12-4	“	“	“	Impact of Marginal Cost Estimate on DSM Screening
Ex. #PUB/GAC-12-5	“	“	“	Marginal Cost by Rate Schedule
Ex. #PUB/GAC-12-6	“	“	“	Cap & Trade Internalized Cost
Ex. #PUB/GAC-12-7	“	“	“	Total Societal Cost
Ex. #PUB/GAC-12-8	“	“	“	Valuing Environmental Attributes
Ex. #PUB/GAC-12-9	“	“	“	Emissions Displacement
Ex. #PUB/GAC-12-10	“	“	“	Economic Screening Test
Ex. #PUB/GAC-12-11	“	“	“	DSM Screening
Ex. #PUB/GAC-12-12	“	“	“	DSM – Impact of Marginal Cost Estimate and Total Resource Cost
Ex. #PUB/GAC-12-13	“	“	“	Inverted Rates / Electric Heat
Ex. #PUB/CAC/GAC-13-1	Information Requests of the Public			Benchmarking

Utilities Board to CAC/GAC (Mr. Dunsky) and CAC/GAC's Responses

Ex. #PUB/CAC/GAC-13-2	“	“	“	Savings over Sales vs. Share of Forecast Growth
Ex. #PUB/CAC/GAC-13-3	“	“	“	Rate Structure Changes – Other Jurisdictions
Ex. #PUB/CAC/GAC-13-4	“	“	“	Savings Ratios – Other Jurisdictions
Ex. #PUB/CAC/GAC-13-5	“	“	“	Comparison to Cohort
Ex. #PUB/CAC/GAC-13-6	“	“	“	Exogenous Factors
Ex. #PUB/CAC/GAC-13-7	“	“	“	Benchmarking against BC Hydro
Ex. #PUB/CAC/GAC-13-8	“	“	“	Heating & Cooling Needs
Ex. #PUB/CAC/GAC-13-9	“	“	“	Residential Load
Ex. #PUB/CAC/GAC-13-10	“	“	“	Baseline Efficiency
Ex. #PUB/CAC/GAC-13-11	“	“	“	Electricity Rate Comparison
Ex. #PUB/CAC/GAC-13-12	“	“	“	Planned vs. Real DSM Savings
Ex. #PUB/CAC/GAC-13-13	“	“	“	DSM Risks
Ex. #PUB/CAC/GAC-13-14	“	“	“	DSM Impact on Ratepayers
Ex. #PUB/CAC/GAC-13-15	“	“	“	Economic Screening – Different Tests
Ex. #PUB/CAC/GAC-13-16	“	“	“	Economic Screening
Ex. #PUB/CAC/GAC-13-17	“	“	“	Ductless Heat Pumps
Ex. #PUB/CAC/GAC-13-18	“	“	“	Impact of DSM Spending on Deferral of New Generation
Ex. #PUB-14	Board Counsel Book of Documents			Volume 1, 2, 3, 4 and 5

MANITOBA HYDRO'S EXHIBITS

- Ex. #MH-1-1 Letter dated June 15, 2012 from Manitoba Hydro to the Board attaching Application
- Ex. #MH-1-2 Letter dated July 6, 2012 from Manitoba Hydro to the Board attaching Volume II
- Ex. #MH-1-3 Letter dated July 19, 2012 from Manitoba Hydro to the Board enclosing additional filings
- Ex. #MH-1-4 Letter dated September 5, 2012 from Manitoba Hydro to the Board enclosing additional filings.
- Ex. #MH-1-5 Letter dated September 21, 2012 from Manitoba Hydro to the Board regarding Round 1 Information Requests
- Ex. #MH-1-6 Letter dated September 24, 2012 attaching from Manitoba Hydro to the Board attaching responses to PUB and interveners 1st round information requests
- Ex. #MH-1-7 Letter dated September 26, 2012 from Manitoba Hydro the Board regarding Round 1 Information Requests
- Ex. #MH-1-8 Letter dated September 28, 2012 from Manitoba Hydro to the Board regarding Round 1 Information Requests
- Ex. #MH-1-9 Letter dated October 3, 2012 from Manitoba Hydro to the Board regarding Round 1 Information Requests
- Ex. #MH-1-10 Letter dated October 3, 2012 from Manitoba Hydro to the Board Regarding Proposed Rates Effective

April 1, 2013

Ex. #MH-1-11	Letter dated October 19, 2012 from Manitoba Hydro to the Board regarding Round 1 Information Requests	
Ex. #MH-1-12	Letter dated October 26, 2012 from Manitoba Hydro to the Board regarding Round 1 Information Requests	
Ex. #MH-1-13	Letter dated November 2, 2012 from Manitoba Hydro to the Board regarding Round 1 Information Requests	
Ex. #MH-1-14	Letter dated November 7, 2012 from Manitoba Hydro to the Board regarding Proposed Rates Effective April 1, 2013 (Revised)	
Ex. #MH-1-15	Letter dated November 15, 2012 from Manitoba Hydro to the Board regarding Round 1 Information Requests	
Ex. #MH-1-16	Letter dated December 4, 2012 from Manitoba Hydro to the Board – Responses to Information Requests	
Ex. #MH-2	Affidavit of Publication & Service of Notice of Application and Pre-Hearing Conference	
Ex. #MH-3	Affidavit of Service	
Ex. #MH/GAC(Chernick)-4-1	Manitoba Hydro’s Information Requests with Respect to the Pre-Filed Evidence of Paul Chernick, Resource Insight, Inc. and GAC’s Responses	Consultation Process
Ex. #MH/GAC(Chernick)-4-2	“ “ “	Bill Frequency Data Spreadsheet
Ex. #MH/GAC(Chernick)-4-3	“ “ “	Intervener Work Product
Ex. #MH/GAC(Chernick)-4-4	“ “ “	Avoided Energy Supply Costs in

February 7, 2013

				New England: 2009 Report
Ex. #MH/GAC(Chernick)-4-5	“	“	“	Generation Source that Manitoba Hydro Exports Replace
Ex. #MH/GAC(Chernick)-4-6	“	“	“	Generation Source that Manitoba Hydro Exports Replace – Coal
Ex. #MH/GAC(Chernick)-4-7	“	“	“	Power Smart – Total Resource Cost Test
Ex. #MH/GAC(Chernick)-4-6	“	“	“	Power Smart – Economic Effectiveness Ratios
Ex. #MH/MIPUG(Bowman)-5-1	Manitoba Hydro’s Information Requests with Respect to the Pre-Filed Evidence of Patrick Bowman, Intergroup Consultants Inc. and MIPUG’s Responses			Equal Life Group Method
Ex. #MH/MIPUG(Bowman)-5-2	“	“	“	Allocation of Overhead, Administrative and General Costs to Capital
Ex. #MH/MIPUG(Bowman)-5-3	“	“	“	Reduction in Net Income as an Offsetting Factor
Ex. #MH/MIPUG(Bowman)-5-4	“	“	“	Equal Life Group Method
Ex. #MH/MIPUG(Bowman)-5-5	“	“	“	Depreciation Methods for Other Utilities
Ex. #MH/MIPUG(Bowman)-5-6	“	“	“	Equal Life Group Method
Ex. #MH/MIPUG(Bowman)-5-7	“	“	“	Curtable Customers
Ex. #MH/MIPUG(Bowman)-5-8	“	“	“	Recommendation to PUB re Depreciation
Ex. #MH/MIPUG(Bowman)-5-9	“	“	“	Expert Credentials – Utility Depreciation
Ex. #MH/CAC/GAC(Dunsky)-6-1	Manitoba Hydro’s Information Requests with Respect to the Pre-Filed Evidence of Philippe Dunsky, Dunsky Energy Consulting and CAC/GAC’s Responses			Curriculum Vitae

Ex. #MH/CAC/GAC(Dunsky)-6-2	“ “ “	Use of Total Resource Cost (TRC), Modified TRC, or Societal Test
Ex. #MH/CAC/GAC(Dunsky)-6-3	“ “ “	Ductless Heat Pumps – Analysis
Ex. #MH-7-1	Appendix 14 to Manitoba Hydro’s Application	Financial Statements – Related Companies
Ex. #MH-7-2	Appendix 15 to Manitoba Hydro’s Application	Corporate Strategic Plan 2012-2013
Ex. #MH-7-3	Appendix 16 to Manitoba Hydro’s Application	PUB/MH I-84(d)
Ex. #MH-7-4	Appendix 17 to Manitoba Hydro’s Application	Debt Management Strategy 2012/13 and 2013/14
Ex. #MH-7-5	Appendix 18 to Manitoba Hydro’s Application	Notice of Operating Plan Forecasts
Ex. #MH-7-6	Appendix 19 to Manitoba Hydro’s Application	Comparison of Electricity Prices in North American Cities – Hydro Quebec
Ex. #MH-7-7	Appendix 20 to Manitoba Hydro’s Application	Credit Rating Agency Reports for Manitoba Hydro and the Province of Manitoba
Ex. #MH-7-8	Appendix 21 to Manitoba Hydro’s Application	General Consumers Sales (Monthly Customers) History and Forecast 1990/04 – 2031/03
Ex. #MH-7-9	Appendix 22 to Manitoba Hydro’s Application	Diesel IRs filed December 22, 2011
Ex. #MH-7-10	Appendix 23 to Manitoba Hydro’s Application	Manitoba Hydro’s Export Markets
Ex. #MH-7-11	Appendix 24 to Manitoba Hydro’s Application	Depreciation Study
Ex. #MH-7-12	Appendix 25 to Manitoba Hydro’s Application	GAC/MH I-8(f)
Ex. #MH-7-13	Appendix 26 to Manitoba Hydro’s Application	Economic, Load, and Environmental Impacts of Fuel Switching in Manitoba

Ex. #MH-7-14	Appendix 27 to Manitoba Hydro's Application	Proof of Revenue – Annualized Impact of September 2, 2012 Rate Increase and 7-Month Impact of September 1, 2012 Rate Increase
Ex. #MH-7-15	Appendix 28 to Manitoba Hydro's Application	Rate Schedules to be Effective September 1, 2012
Ex. #MH-7-16	Appendix 29 to Manitoba Hydro's Application	Bill Comparison April 1, 2012 vs. September 1, 2012
Ex. #MH-7-17	Appendix 30 to Manitoba Hydro's Application	MISO Hourly Day-Ahead Prices (GAC/MH I-26)
Ex. #MH-7-18	Appendix 31 to Manitoba Hydro's Application	Actuarial Reports
Ex. #MH-7-19	Appendix 32 to Manitoba Hydro's Application	Conference Presentations and Speaking Notes
Ex. #MH-7-20	Appendix 33 to Manitoba Hydro's Application	KPMG's Global Automotive Executive Survey 2012
Ex. #MH-7-21	Appendix 34 to Manitoba Hydro's Application	Presentations to Credit Rating Agencies
Ex. #MH-7-22	Appendix 35 to Manitoba Hydro's Application	Report on Marginal Transmission & Distribution Cost Estimates
Ex. #MH-7-23	Appendix 36 to Manitoba Hydro's Application	Industrial Customer Consultation
Ex. #MH-7-24	Appendix 37 to Manitoba Hydro's Application	Distributed Resources Documentation
Ex. #MH-7-25	Appendix 38 to Manitoba Hydro's Application	Manitoba Hydro Monitoring Study – Performance of Ground Source Heat Pumps in Manitoba – June 2009
Ex. #MH-7-26	Appendix 39 to Manitoba Hydro's Application	Manitoba Hydro Report on Future Projects for HVDC Converter Stations – April 28, 2011
Ex. #MH-7-27	Appendix 40 to Manitoba Hydro's Application	Manitoba Hydro Report on Distribution Asset Condition – November 9, 2012

Ex. #MH-7-28	Appendix 41 to Manitoba Hydro's Application	Exploring the Future for Natural Gas Supply and Demand for Centra Gas U.S. and Centra Canada Gas Market and Portfolio Option Overview – July 8, 2011
Ex. #MH-7-29	Appendix 42 to Manitoba Hydro's Application	Wuskwatim and Keeyask Training Consortium Inc. – Annual Report for the Year Ending March 31, 2010
Ex. #MH-8	MH Rebuttal Evidence filed December 7/12	P. Chernick, P. Bowman and P. Dunsky
Ex. #MH-9	Integrated Financial Forecast (IFF 12) 2012/13 – 2031/32	Filed December 10/12
Ex. #MH-10	Capital Expenditure Forecast (CEP 12) 2012/13 – 2031/32	Filed December 10/12
Ex. #MH-11	External Power Resource Plan MH 2012/13	Filed December 10/12
Ex. #MH-12	CV's of MH panel	Scott Thomson, Vince Warden, David Cormie, Darren Rainkie, Terry Miles, Robin Wiens, Lois Morrison, Wayne Wittmeir
Ex. #MH-13	Affidavit of Service, Service of Reminder Notice on Interveners	Dated November 29/12
Ex. #MH-14	Affidavit of Publication and Service dated November 29/12 and Affidavit of Publication of Reminder Notice in major rural newspapers	Dated November 29/12
Ex. #MH-15	MH presentation to PUB – Vince Warden	December 12/12
Ex. #MH-16	IFF 11-2 Electric Operations 20 Yr outlook with financial targets for each year	December 13/12 PUB/MH-1-22
Ex. #MH-17	Average Unit – Revenue/Cost Calculation IFF 12	December 13, 2012
Ex. #MH-18	Responses to PUB Pre-Asks 1-20	December 14, 2012

Ex. #MH-19	MH Report to Mr. Per Stokke on issues relating to Pointe du Bois Spillway	December 14, 2012
Ex. #MH-20	MH Brochure: Replacing your furnace or water heater	December 14, 2012
Ex. #MH-21	Revisions to PUB IR I-27, II-39, 11-41, I-35 11-46, 11-55, 11-67	
Ex. #MH-22	MH Response to MIPUG 1-12 and CAC 2-8	December 17, 2012
Ex. #MH-23	Resume – Larry Kennedy, Gannett Fleming	December 18, 2012
Ex. #MH-24	Capital Contributions of land developers – Undertaking #3	December 18, 2012
Ex. #MH-25	Financial impact of 1996 windstorm of January 2011 – Undertaking #16	December 18, 2012
Ex. #MH-26	MISO Revenue Sufficiency Guarantee charges paid by MH 2007/08 – November 30, 2012	December 18, 2012
Ex. #MH-27	Details of revenue/cost in IFF, Undertaking #17, for extra provincial fuel and power purchase 2015/16 - Undertaking #22	December 18, 2012
Ex. #MH-28	MH report on BC DM report on BC Hydro – Undertaking #27	December 18, 2012
Ex. #MH-29	MH office building efficiency – Undertaking #28	December 18, 2012
Ex. #MH-30	Annual 1998 – 2003 increases in power consumption – Undertaking #10	December 18, 2012
Ex. #MH-31	Daily gas prices compared to peak and off peak price of electricity – Undertaking #2	December 18, 2012
Ex. #MH-32	Annual Space and Water Heating Costs – electricity and gas – Undertaking #13	December 18, 2012

Ex. #MH-33	Peak load over 3500 MW – Undertaking #4	December 19, 2012
Ex. #MH-34	Wuskwatim Power Ltd. – Partnership Operating Statement – Undertaking #8	December 19, 2012
Ex. #MH-35	Return energy in diversity contracts and adverse water conditions – Undertaking #15	December 19, 2012
Ex. #MH-36	PUB/MH II-14(a) update with IFF 12 – Undertaking #23	December 19, 2012
Ex. #MH-37	Jenpeg outage impact on flows and revenue – Undertaking #24	December 19, 2012
Ex. #MH-38	MIPUG/MH-I-2(a) MIPUG/MH-I-2(d) MIPUG/MH-I-11(c) MIPUG/MH-I-36(a) MIPUG/MH-I-36(b)	Financial Targets Financial targets 5 & 7 year drought impact Electric Operations Finance
Ex. #MH-39	PUB/MH-I-28(f) PUB/MH-I-32(a) PUB/MH-I-32(c) PUB/MH-I-38(e) PUB/MH-I-59(b) PUB/MH-I-59(c) PUB/MH-I-64(d) PUB/MH-I-67(b)	Finance Expense Risk Table Net Interchange revenue Labour and benefits costs 1999- 2013 O & A costs 2003 - 2014 O & A costs 2003 - 2014 Staffing levels Finance expense
Ex. #MH-40	PUB/MH-II-38(a) PUB/MH-II-39(b) PUB/MH-II-40(a) PUB/MH-II-40(c) PUB/MH-II-60(a) PUB/MH-II-60(b) PUB/MH-II-63 PUB/MH-II-64 PUB/MH-II-91(a)	Finance expense Financial targets Finance - electric operations Financial Impact –IFF 12 vs IFF 11 Delay of IFRS – impact Delay of IFRS – impact Finance expense – IFF 12 Finance expense – IFF 12 Update 7 year drought scenario
Ex. #MH-41	Undertaking #9, Tr Pg 835	Hourly generation by station, Manitoba load & net interchange
Ex. #MH-42	Undertaking #11, Tr Pg 868-869	Population growth and net migration

Ex. #MH-43	Undertaking #12	Update for electricity for electric heated homes. Heat customer growth.
Ex. #MH-44	Undertaking #15, Tr Pg 1024	Sales contracts – return energy from Diversity Agreements
Ex. #MH-45	Undertaking #18, Tr Pg 1172	Day ahead vs real time prices
Ex. #MH-46	Undertaking #19, Tr Pg 1173	Merchant purchases and merchant transmission
Ex. #MH-47	Undertaking #20, Tr Pg 1187	Non energy costs
Ex. #MH-48	Undertaking #30, Tr Pg 1652	Group depreciation/composite depreciation
Ex. #MH-49	Undertaking #31, Tr Pg 1669	Average remaining life for asset components
Ex. #MH-50	Undertaking #33, Tr Pg 1840	Depreciation – computed mortality method for plant assets
Ex. #MH-51	Undertaking #35, Tr Pg 1890	No. of poles – Winnipeg Hydro
Ex. #MH-52	Undertaking #39, Tr Pg 1998	Canadian Electricity Association presentation on depreciation by Gannett Fleming's Larry Kennedy
Ex. #MH-53	Undertaking #40, Tr Pg 2000	Suggested depreciation component groups (Kennedy)
Ex. #MH-54	Undertaking, Tr Pg 1583-1585	Depreciation – retirements for each age interval
Ex. #MH-55	PUB/MH-I-42	Accounting changes in IFF
Ex. #MH-56	MIPUG/MH-I-35	Energy supply and net revenue
Ex. #MH-57	Undertaking #32, Tr Pg 1795	Depreciation Peer companies review
Ex. #MH-58	Undertaking #34, Tr Pg 1888	Pointe du Bois retirements
Ex. #MH-59	Undertaking #36, Tr Pg 1937	Depreciation
Ex. #MH-60	CF of M. Schultz, Corporate Treasurer, MH	

Ex. #MH-61	Gas turbine generation – capital costs 250 MW	
Ex. #MH-62	Rebuilding vs renovating generating stations	
Ex. #MH-63	Undertaking #51, Tr Pg 2422	Customers with electronic billing
Ex. #MH-64	Undertaking #53, Tr Pg 2509	Use of Engineer’s seal
Ex. #MH-65	Undertaking #56, Tr Pg 2747	RFP for DSM Market Potential Study
Ex. #MH-66	Undertaking #52, Tr Pg 2439	Home heating consumption
Ex. #MH-67	Undertaking #43, Tr Pg 2124	IASB Standards – Rate Regulated Accounting
Ex. #MH-68	Undertaking Tr Pg 1941 – 1952	ASL Depreciation Study Tables
Ex. #MH-69	Undertaking #38, Tr Pg 1988-1989	Depreciation calculations Wuskwatim
Ex. #MH-70	Undertaking #41, Tr Pg 2078	Provisions for computer equipment and hot water tanks
Ex. #MH-71	Undertaking #58, Tr Pg 2765	Power Smart Expenditures – January 15, 2013
Ex. #MH-72	Undertaking #61, Tr Pg 2886	Electric DSM Expenditures for two test years – January 15, 2013
Ex. #MH-73	Undertaking #72, Tr Pg 3272	Payback to convert from electric water heater to side-vent natural gas
Ex. #MH-74	Undertaking #48, Tr Pg 2276	Additional information for North/South Transmission additions – January 16, 2013
Ex. #MH-75	Undertaking #59, Tr Pg 2829	Number of customers in NUG program – January 16, 2013
Ex. MH-76	Undertaking #60, Tr Pg 2832	Manitoba Hydro NUG Policy – January 16, 2013
Ex. #MH-77	Undertaking #74, Tr Pg 3309	Details of Province of Manitoba Geothermal program – January 16, 2013

Ex. #MH-78	Undertaking #44, Tr Pg 2134	External auditor advice or opinions on MH accounting practices – January 16, 2013
Ex. #MH-79	Undertaking #55, Tr Pg 2610	Tadoule Lake generation replacement – January 16, 2013
Ex. #MH-80	Undertaking #69, Tr Pg 3219	MRC calculation, RIM Test and LUC results for Water Saver Program
Ex. #MH-81	Undertaking #76, Tr Pg 3438	ASL net salvage value for Wuskwatim – January 16, 2013
Ex. #MH-82	Undertaking #75, Tr Pg. 3320	Breakdown of GHG estimate
Ex. #MH-83	Undertaking #77, Tr Pg 3540	Composite depreciation for New Generating Stations
Ex. #MH-84	Undertaking #54, Tr Pg 2513	Signatory to SEP applications
Ex. #MH-85	Undertaking #63, Tr Pg 2941	Generation, transmission and distribution components for marginal values MIPUG/MH-1-7a
Ex. #MH-86	Undertaking #78, Tr Pg 3671	IFF 09 average price vs IFF 12
Ex. #MH-87	Undertaking #87, Tr Pg 3117	% of tenants participating in Water and Energy Savings Program
Ex. #MH-88	Undertaking #65, Tr Pg 3123	Participation in Power Smart Programs
Ex. #MH-89	Undertaking #5, Tr Pg 728	NCN Agreement Impact on IFF 12
Ex. #MH-90	Undertaking #45, Tr Pg 2191	Other amortization changes IFF 11-2 to IFF 12
Ex. #MH-91	Undertaking #47, Tr Pg 2263	Wuskwatim – cost escalation, initial estimate to final actual cost
Ex. #MH-92	Undertaking #49, Tr Pg 2363	Repayment of WPLP debt
Ex. #MH-93	Undertaking #50, Tr Pg 2383	WPLP – Partners Capital equity
Ex. #MH-94	Undertaking #49, Tr Pg 2931	Generation marginal value

Ex. #MH-95	Undertaking #67, Tr Pg 3214	Price and general service customer demand relationship
Ex. #MH-96	Undertaking #70, Tr Pg 3246	Price elasticity
Ex. #MH-97	Undertaking #81, Tr Pg 3770-3771	Enterprise Asset Management Program
Ex. #MH-98	Undertaking #82, Tr Pg 3775	Transmission Asset Condition Assessment Report
Ex. #MH-99	Undertaking #87, Tr Pg 4073	EFT's for distribution asset report
Ex. #MH-100	Undertaking #7, Tr Pg 797	Financial Results to forecasts for previous five years
Ex. #MH-101	Undertaking #42, Tr Pg 2110	Unit cost for each generating station and discount rate
Ex. #MH-102	Undertaking #71, Tr Pg 3252	GHG Impacts
Ex. #MH-103	PUB/MH/Pre-Ask-15 (Revised) EFT (2010/11 GRA)	
Ex. #MH-104	Undertaking #68, Tr Pg 3218	Marginal resource costs
Ex. #MH-105	Undertaking #73, Tr Pg 3307	Payback period for equipment
Ex. #MH-106	Undertaking #93, Tr Pg 4529	Wuskwatim Station depreciation expense
Ex. #MH-107	Undertaking #94, Tr Pg 4786	Update to page 359 from MIPUG Book of Documents for IFF 12
Ex. #MH-108	Undertaking #6, Tr Pg 792	Wuskwatim – financial impact on two test years
Ex. #MH-109	Undertaking #57, Tr Pg 2754	EFT equivalent for energy conservation
Ex. #MH-110	MH – Book of Documents	January 24, 2013
Ex. #MH-111	Undertaking #46, Tr Pg 2259	Breakdown of cost increase – Conawapa and Keeyask
Ex. #MH-112	Undertaking #80, Tr Pg 3689	Financial impact of deferral of in-service date Wuskwatim, Conawapa, Keeyask IFF 09 and IFF

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Ex. #MH-113	Request for info Tr Pg 4958	Dependable Resources Chart A Gross Imports and Exports Chart B
Ex. #MH-114	Request for info Tr Pg 4993-4994	Debit:equity beyond 2023 and net income
Ex. #MH-115	Request for info Tr Pg 5098-5099	CPJ's for Enterprise Asset Management Program
Ex. #MH-116	Request for info Tr Pg 5064	Impact to net income from IFRS

CONSUMERS' ASSOCIATION OF CANADA (MANITOBA) INC.'S EXHIBITS

Ex. #CAC/MH-1-1	Consumers' Association of Canada (Manitoba) Inc.'s 1 st round information requests and Manitoba Hydro's responses			Required Revisions to the Application
Ex. #CAC/MH-1-2	"	"	"	Reconciliation of Actual Revenues, Expenses and Retained Earnings
Ex. #CAC/MH-1-3	"	"	"	Average Price Calculations and MISO Day-Ahead Prices
Ex. #CAC/MH-1-4	"	"	"	Change in Outlook of Export Market – IFF09-1 to IFF10-2 to IFF11-2
Ex. #CAC/MH-1-5	"	"	"	Credit Rating – Rating Agency Information (plus Appendix 20)
Ex. #CAC/MH-1-6	"	"	"	Credit Rating – Credit Watch
Ex. #CAC/MH-1-7	"	"	"	Credit Rating – Export Requirements (plus Appendix 5.8)
Ex. #CAC/MH-1-8	"	"	"	Corporate Strategic Plan – Targets and Performance Measures
Ex. #CAC/MH-1-9	"	"	"	Corporate Strategic Plan – Capital Investment Decisions
Ex. #CAC/MH-1-10	"	"	"	Corporate Strategic Plan – Capital Expenditure Reporting and Accountability
Ex. #CAC/MH-1-11	"	"	"	Corporate Strategic Plan – OM&A and Prioritization of Capital Requirements
Ex. #CAC/MH-1-12	"	"	"	Research and Development Business Unit
Ex. #CAC/MH-1-13	"	"	"	Corporate Overview – Efficiency Improvements and Capital Project Justifications
Ex. #CAC/MH-1-14	"	"	"	Capital Expenditures, Accounting

				Adjustments to OM&A, Asset Retirement, and Amortization
Ex. #CAC/MH-1-15	“	“	“	Impact of Wuskwatim on the Operating Statement
Ex. #CAC/MH-1-16	“	“	“	Impact of Lower Interest Rates
Ex. #CAC/MH-1-17	“	“	“	Long-Term Export Outlook
Ex. #CAC/MH-1-18	“	“	“	Availability of Hydraulic Generation
Ex. #CAC/MH-1-19	“	“	“	Decrease in Extraprovincial Revenues
Ex. #CAC/MH-1-20	“	“	“	Decrease in Extraprovincial Revenues - Breakdown
Ex. #CAC/MH-1-21	“	“	“	Decrease in Extraprovincial Revenues – Supporting Data and Breakdown of “Other”
Ex. #CAC/MH-1-22	“	“	“	IFRS Deferral
Ex. #CAC/MH-1-23	“	“	“	OM&A – Changes across IFFs and Impact of IFRS Adoption
Ex. #CAC/MH-1-24	“	“	“	OM&A per Customer
Ex. #CAC/MH-1-25	“	“	“	Depreciation and Amortization for Electric Operations and Impact of IFRS Adoption
Ex. #CAC/MH-1-26	“	“	“	Annual Capital Spending and Impact of Change in Treatment of DSM Expenditures
Ex. #CAC/MH-1-27	“	“	“	Impact of a Five-Year Drought
Ex. #CAC/MH-1-28	“	“	“	Reconciliation of Expenses and Net income and IFRS Impact in IFF11-2
Ex. #CAC/MH-1-29	“	“	“	General Consumer Revenue and Statement of Income – Updated to Reflect the September 1, 2012 Interim Rate Order

Ex. #CAC/MH-1-30	“	“	“	Financial Results & Forecast – Actual 2009/10 and 2010/11 Results
Ex. #CAC/MH-1-31	“	“	“	Export Volumes and Prices – Actual vs. Projected
Ex. #CAC/MH-1-32	“	“	“	Impact of IFRS on Capitalized Overhead and Reconciliation of OM&A
Ex. #CAC/MH-1-33	“	“	“	Efficiency and Productivity Improvements
Ex. #CAC/MH-1-34	“	“	“	Inclusion of Bad Debt Expense
Ex. #CAC/MH-1-35	“	“	“	Adjustment of Rate-Regulated Assets to Retained Earnings
Ex. #CAC/MH-1-36	“	“	“	Changes to Treatment of DSM, Site Remediation and Regulatory Costs
Ex. #CAC/MH-1-37	“	“	“	OM&A
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Ex. #CAC/MH-1-40	“	“	“	Maintenance Spending and Spending on Customer Care and Marketing
Ex. #CAC/MH-1-41	“	“	“	Attraction & Retention re Northern Power Supply Vacancies
Ex. #CAC/MH-1-42	“	“	“	Year-over-Year OM&A and OM&A Reduction Measures
Ex. #CAC/MH-1-43	“	“	“	Impact of IFRS and Depreciation Study on Depreciation Costs
Ex. #CAC/MH-1-44	“	“	“	Power Purchases
Ex. #CAC/MH-1-45	“	“	“	Wuskwatim Power LP – Financial Information
Ex. #CAC/MH-1-46	“	“	“	OM&A Cost Constraint Measures
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Ex. #CAC/MH-1-48	“	“	“	Depreciation – Reconciliation of Actual and Forecast Depreciation Expense with Depreciation Study
Ex. #CAC/MH-1-49	“	“	“	Depreciation – Survivor Curves and Underlying Data
Ex. #CAC/MH-1-50	“	“	“	Depreciation – Inclusion of Community Development Costs
Ex. #CAC/MH-1-51	“	“	“	Capital Expenditures – Changes between CEF09-1 and CEF11-2 and Projected Spending
Ex. #CAC/MH-1-52	“	“	“	Export Capacity Constraints
Ex. #CAC/MH-1-53	“	“	“	Capital Expenditures – Evaluation of Alternatives when Addressing Deficiencies
Ex. #CAC/MH-1-54	“	“	“	Capital Expenditures – Computer System Enhancements
Ex. #CAC/MH-1-55	“	“	“	Electric Load Forecast and Load Research – Peak Loads and Curtailable Loads
Ex. #CAC/MH-1-56	“	“	“	Electric Load Forecast and Load Research - Revisions
Ex. #CAC/MH-1-57	“	“	“	Electric Load Forecast and Load Research – Curtailment
Ex. #CAC/MH-1-58	“	“	“	Electric Load Forecast and Load Research – Impact of Electricity Prices
Ex. #CAC/MH-1-59	“	“	“	Electric Load Forecast and Load Research – Definition of “Normal Weather”
Ex. #CAC/MH-1-60	“	“	“	Electric Load Forecast and Load Research - DSM
Ex. #CAC/MH-1-61	“	“	“	Electric Load Forecast and Load Research – Diesel Customers

Ex. #CAC/MH-1-62	“	“	“	Electric Load Forecast and Load Research – Changes in Methodology
Ex. #CAC/MH-1-63	“	“	“	General Customer Sales – Monthly Data
Ex. #CAC/MH-1-64	“	“	“	Economic Growth Forecast
Ex. #CAC/MH-1-65	“	“	“	External Load Forecast – Climate Change and Seasonality
Ex. #CAC/MH-1-66	“	“	“	External Load Forecast – Accuracy
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Ex. #CAC/MH-1-68	“	“	“	External Load Forecast – Detailed End Use Approach
Ex. #CAC/MH-1-69	“	“	“	External Load Forecast – Use of Regression Techniques
Ex. #CAC/MH-1-70	“	“	“	Energy Supply – Pointe du Bois Spillway Replacement
Ex. #CAC/MH-1-71	“	“	“	Energy Supply – Calculation of DSM Savings
Ex. #CAC/MH-1-72	“	“	“	Energy Supply – Adjustment for “Adverse Water” and Export Data
Ex. #CAC/MH-1-73	“	“	“	Energy Supply – Wind Energy Pricing and Comparison of Wuskwatim In-Service Cost to 2003 CEC Submission
Ex. #CAC/MH-1-74	“	“	“	Energy Supply – MISO Ancillary Services Market
Ex. #CAC/MH-1-75	“	“	“	Energy Supply – On-Peak / Off-Peak Data
Ex. #CAC/MH-1-76	“	“	“	Energy Supply – Financial Impact of Drought

Ex. #CAC/MH-1-77	“	“	“	Energy Supply – Import Limits
Ex. #CAC/MH-1-78	“	“	“	Energy Supply – Export Sales
Ex. #CAC/MH-1-79	“	“	“	Proposed Rates and Customer Impacts – Inflation
Ex. #CAC/MH-1-80	“	“	“	Proposed Rates and Customer Impacts – Basic Charge
Ex. #CAC/MH-1-81	“	“	“	Proposed Rates and Customer Impacts – Forecast Billing Determinants
Ex. #CAC/MH-1-82	“	“	“	Proposed Rates and Customer Impacts – Proof of Revenue, Rate Schedules and Bill Comparisons (plus Appendices 27, 28 and 29)
Ex. #CAC/MH-1-83	“	“	“	Proposed Rates and Customer Impacts – Comparison of Rates and Marginal Cost of Supply
Ex. #CAC/MH-1-84	“	“	“	Proposed Rates and Customer Impacts – Curtailable Rates
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Ex. #CAC/MH-1-88	“	“	“	Diesel Communities – DCOSS
Ex. #CAC/MH-1-89	“	“	“	Diesel Communities – Deferred Responses from Diesel Rate Application (plus Appendix 22)
Ex. #CAC/MH-1-90	“	“	“	Diesel Communities – Subsidies
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				Customer Class
Ex. #CAC/MH-1-93	“	“	“	Diesel Communities – Revenue Requirement Calculations and Deficit
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Ex. #CAC/MH-1-95	“	“	“	Diesel Communities – Actual Revenues and Costs
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Ex. #CAC/MH-1-98	“	“	“	Diesel Communities – Surplus/Deficit Reconciliation
Ex. #CAC/MH-1-99	“	“	“	Diesel Communities – Government Capital Contributions
Ex. #CAC/MH-1-100	“	“	“	Diesel Communities – Updated IR Responses
Ex. #CAC/MH-1-101	“	“	“	Diesel Communities – Directives #6 and 7 from Order 158/08
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Ex. #CAC/MH-1-104	“	“	“	Foreign Exchange Exposure Management Risk – Long-Term Debt
Ex. #CAC/MH-1-105	“	“	“	Foreign Exchange Exposure Management Risk - Hedging
Ex. #CAC/MH-1-106	“	“	“	Foreign Exchange Exposure Management Risk – Changes to Net Extraprovincial Revenues

Ex. #CAC/MH-1-107	“	“	“	Foreign Exchange Exposure Management Risk – 20-Year Forecast
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Ex. #CAC/MH-1-109	“	“	“	Export Prices – Historical Perspective and Impact of Natural Gas Prices
Ex. #CAC/MH-1-110	“	“	“	Export Prices – Carbon Pricing
Ex. #CAC/MH-1-111	“	“	“	Export Prices – Extraprovincial Revenue Data
Ex. #CAC/MH-1-112	“	“	“	Export Prices – Impact of Natural Gas Prices
Ex. #CAC/MH-1-113	“	“	“	Export Prices – Natural Gas Price Assumptions
Ex. #CAC/MH-1-114	“	“	“	Export Prices – Export Market Workshop (plus Appendix 23)
Ex. #CAC/MH-1-115	“	“	“	Export Prices – Export Contract Summaries and Redacted Copies
Ex. #CAC/MH-1-116	“	“	“	Export Prices – U.S. Market Restructuring
Ex. #CAC/MH-1-117	“	“	“	Export Prices – Coal Use
Ex. #CAC/MH-1-118	“	“	“	Export Prices – Historical Prices and Forecast Prices
Ex. #CAC/MH-1-119	“	“	“	Export Prices – U.S. GDP
Ex. #CAC/MH-1-120	“	“	“	Economic Outlook – Input Sources
Ex. #CAC/MH-1-121	“	“	“	Economic Outlook – Input Sources
Ex. #CAC/MH-1-122	“	“	“	Economic Outlook – MISO Market
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Ex. #CAC/MH-1-126	“	“	“	Extraprovincial Revenue
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Ex. #CAC/MH-1-128	“	“	“	Debt-to-Equity Ratio – Updated Actuals
Ex. #CAC/MH-1-129	“	“	“	Credit Rating – IR Update
Ex. #CAC/MH-1-130	“	“	“	Actual and Forecast Export Sales – IR Update
Ex. #CAC/MH-1-131	“	“	“	Regulatory Costs – IR Update
Ex. #CAC/MH-1-132	“	“	“	Regulatory Costs – IR Update
Ex. #CAC/MH-1-133	“	“	“	Membership in the Canadian Electricity Association (CEA) and CEA Studies
Ex. #CAC/MH-2-1	Consumers’ Association of Canada (Manitoba) Inc. 2 nd round information requests and Manitoba Hydro’s responses			Time of Use Rates
Ex. #CAC/MH-2-2	“	“	“	Export Prices – Peak/Off-Peak and Link of Contract Prices to Natural Gas Prices
Ex. #CAC/MH-2-3	“	“	“	Accident Severity and Accident Frequency Rates and OM&A per Customer
Ex. #CAC/MH-2-4	“	“	“	Budget and Performance Metrics – Power Supply and Transmission
Ex. #CAC/MH-2-5	“	“	“	Asset Investment Planning
Ex. #CAC/MH-2-6	“	“	“	Export Outlook – Variance in IFFs
Ex. #CAC/MH-2-7	“	“	“	Export Contracts and Term Sheets
Ex. #CAC/MH-2-8	“	“	“	Risks and Benefits of Firm Exports
Ex. #CAC/MH-2-9	“	“	“	Carbon Pricing Implementation Delays

Ex. #CAC/MH-2-10	“	“	“	IFRS Changeover Date
Ex. #CAC/MH-2-11	“	“	“	Base Capital Spending Increases – IFF10-2 to IFF11-2
Ex. #CAC/MH-2-12	“	“	“	Export Quantity Forecasts
Ex. #CAC/MH-2-13	“	“	“	Bad Debt Write-Off
Ex. #CAC/MH-2-14	“	“	“	Salary & Benefit Increases per EFT
Ex. #CAC/MH-2-15	“	“	“	Maintenance Expenses – Five Largest Items per Category
Ex. #CAC/MH-2-16	“	“	“	CEF11 – Aggregate Adjustment to Capital Spending
Ex. #CAC/MH-2-17	“	“	“	Capital Expenditures – Firm Export Intertie Capability Requirements
Ex. #CAC/MH-2-18	“	“	“	Capital Spending – Alternatives to Pine Falls Rehabilitation and Great Falls Unit 4 Overhaul
Ex. #CAC/MH-2-19	“	“	“	Electric Load Forecast and Load Research – Exclusion of Wind
Ex. #CAC/MH-2-20	“	“	“	Electric Load Forecast and Load Research – 15-Year vs. 10-Year Average
Ex. #CAC/MH-2-21	“	“	“	
Ex. #CAC/MH-2-22	“	“	“	Energy Supply – Alternatives to Pointe du Bois Spillway Replacement
Ex. #CAC/MH-2-23	“	“	“	Energy Supply – Annual Contract Volumes
Ex. #CAC/MH-2-24	“	“	“	Energy Supply – Intertie Requirements for Firm Export
Ex. #CAC/MH-2-25	“	“	“	Energy Supply – Determination of Long-Run Value for Wind Power
Ex. #CAC/MH-2-26	“	“	“	Energy Supply – 2011/12 and 2012/13 Power Resource Plans

Ex. #CAC/MH-2-27	“	“	“	Proposed Rates and Customer Charges – Marginal Cost at Distribution Level
Ex. #CAC/MH-2-28	“	“	“	Proposed Rates and Customer Charges – Curtailable Load Use
Ex. #CAC/MH-2-29	“	“	“	Proposed Rates and Customer Impacts – Annualized Cost of SCCT Facility
Ex. #CAC/MH-2-30	“	“	“	Proposed Rates and Customer Impacts – Power Factor for GS Large Customers
Ex. #CAC/MH-2-31	“	“	“	Diesel Communities –Revenue Calculation
Ex. #CAC/MH-2-32	“	“	“	Diesel Communities – Engine Failure/Upgrades, Capital Spending, Interest Expenses, Depreciation, and Government Contributions
Ex. #CAC/MH-2-33	“	“	“	Diesel Communities – DCOSS and Costs of Diesel Service
Ex. #CAC/MH-2-34	“	“	“	Diesel Communities – AANDC Funding
Ex. #CAC/MH-2-35	“	“	“	Wind Procurement
Ex. #CAC/MH-2-36	“	“	“	Economic Outlook – Statistical Independence and Use of Consensus Forecast
Ex. #CAC/MH-2-37	“	“	“	Corporate Overview – Use of IFFs for OM&A Targets
Ex. #CAC/MH-2-38	“	“	“	Risk Exposure – Other
Ex. #CAC/MH-2-39	“	“	“	Integrated Financial Forecast – Impacts of Wuskwatim, Keeyask, Conawapa and Bipole III
Ex. #CAC/MH-2-40	“	“	“	Increase in EFTs - Explanations
Ex. #CAC/MH-2-41	“	“	“	

Ex. #CAC/MH-2-42	“	“	“	OM&A Costs – Reconciliation
Ex. #CAC/MH-2-43	“	“	“	Capital Project Justifications
Ex. #CAC/MH-2-44	“	“	“	Capital Expenditures – Increases from IFF09-1 to IFF11-2
Ex. #CAC/MH-2-45	“	“	“	Capital Expenditures – Planning Studies
Ex. #CAC/MH-2-46	“	“	“	Capital Project Justifications – Ranking
Ex. #CAC/MH-2-47	“	“	“	Capital Expenditures – Risk of Deferral
Ex. #CAC/MH-2-48	“	“	“	DSM – Filing of New Plan
Ex. #CAC/MH-2-49	“	“	“	DSM – Levelized Cost
Ex. #CAC/MH-2-50	“	“	“	Surplus Energy Plan (SEO) – Reference Levels
Ex. #CAC/MH-2-51	“	“	“	Load Forecast – Fuel Switching of Existing Customers
Ex. #CAC/MH-2-52	“	“	“	Exports – Inclusion of Contracts
Ex. #CAC/MH-2-53	“	“	“	Corporate Strategy – Financial Targets
Ex. #CAC/MH-2-54	“	“	“	CEF11 – Asset Condition Assessments (plus Appendices 39 and 40)
Ex. #CAC/MH-2-55	“	“	“	Wuskwatim – Need Date
Ex. #CAC/MH-2-56	“	“	“	DSM – Explanation of “Nominal Dollars”
Ex. #CAC/MH-2-57	“	“	“	IFRS Write-Offs to Retained Earnings
Ex. #CAC/MH-2-58	“	“	“	External Hiring Freeze and Vacancy Rate
Ex. #CAC/MH-2-59	“	“	“	Bad Debt Write-Off

Ex. #CAC/MH-2-60	“	“	“	Credit Rating – Consideration of Debt Instruments by Credit Agencies (plus Appendix 20)
Ex. #CAC/MH-2-61	“	“	“	Credit Rating – Presentation to Credit Agencies (plus Appendix 34)
Ex. #CAC/MH-2-62	“	“	“	Credit Rating – Loss Positions
Ex. #CAC/MH-2-63	“	“	“	Export Prices – Reliance on Export Price Consultants and Sensitivity Analysis
Ex. #CAC/MH-2-64	“	“	“	Carbon Pricing
Ex. #CAC/MH-2-65	“	“	“	MISO Market - Equilibrium
Ex. #CAC/MH-2-66	“	“	“	IFRS Transition - Timing
Ex. #CAC/MH-2-67	“	“	“	Export Prices – Standard & Poor’s Projections
Ex. #CAC/MH-2-68	“	“	“	Export Prices – DBRS Projections
Ex. #CAC/MH-3-1	Consumers’ Association of Canada (Manitoba) Inc. Pre-Ask Question and Manitoba Hydro’s responses			
Ex. #CAC-4	Outline for the submission of CAC Manitoba - Public Interest Law Centre			Dated December 10/12
Ex. #CAC-5	Electric Depreciation Rates Supporting Materials			December 18, 2012
Ex. #CAC-6	Asset Depreciation Study for the Ontario Energy Board			Kinectrics Inc. Report, July 8, 2010
Ex. #CAC-7	Electric Depreciation Rates Supporting Materials – December 19, 2012 – Appendix 40 of Application			December 19, 2012
Ex. #CAC-8	Manitoba Hydro 2012/13 & 2013/14 – General Rate Application Supporting Material			January 8, 2013

Ex. #CAC-9	Supporting materials for Cross Exam DSM	January 10, 2013
Ex. #CAC-10	2012 Integrated Resource Plan – BC Hydro Appendix 9A – DSM Implementation Plan	
Ex. #CAC-11	Electricity and Natural Gas Consumption History by month	
Ex. #CAC-12	Manitoba Hydro 2012/13 & 2013/14 GRA supporting material Part 1	January 15, 2013
Ex. #CAC-13	Leveraging Network Utility Asset Management Practices for Regulatory Purposes – November 2009 - KEMA	
Ex. #CAC-14	Manitoba Hydro 2012/13 & 2013/14 GRA supporting material – excerpts from the Distribution Asset Condition Assessment – Part 2	January 15, 2013
Ex. #CAC-15	Manitoba Hydro 2012/13 & 2013/14 GRA supporting material – Part 3	January 15, 2013

CONSUMERS' ASSOCIATION OF CANADA (MANITOBA) INC. AND GREEN ACTION CENTRE'S EXHIBITS

Ex. #CAC/GAC/MH-1-1	Consumers' Association of Canada (Manitoba) Inc. and Green Action Centre's 1 st round information requests and Manitoba Hydro's responses			2011 Power Smart Plan – Annual Savings - Interpretation
Ex. #CAC/GAC/MH-1-2	“	“	“	2011 Power Smart Plan – Annual Savings - Assumptions
Ex. #CAC/GAC/MH-1-3	“	“	“	Codes and Standards
Ex. #CAC/GAC/MH-1-4	“	“	“	Avoided Costs
Ex. #CAC/GAC/MH-1-5	“	“	“	Cost Benefit Analysis - Inputs
Ex. #CAC/GAC/MH-1-6	“	“	“	Cost Benefit Analysis - Framework
Ex. #CAC/GAC/MH-1-7	“	“	“	Cost Benefit Analysis - Sensitivity
Ex. #CAC/GAC/MH-1-8	“	“	“	DSM Budget Projections
Ex. #CAC/GAC/MH-1-9	“	“	“	DSM Savings Projections
Ex. #CAC/GAC/MH-1-10	“	“	“	DSM Potential Study
Ex. #CAC/GAC/MH-1-11	“	“	“	Targeted DSM Scenarios
Ex. #CAC/GAC/MH-1-12	“	“	“	Bill 24: The Energy Savings Act
Ex. #CAC/GAC/MH-1-13	“	“	“	DSM
Ex. #CAC/GAC/MH-2-1	Consumers' Association of Canada (Manitoba) Inc. and Green Action Centre's 2 nd round information requests and Manitoba Hydro's responses			Annual Savings
Ex. #CAC/GAC/MH-2-2	“	“	“	Codes and Standards
Ex. #CAC/GAC/MH-2-3	“	“	“	Sales by Sector and End-Use
Ex. #CAC/GAC/MH-2-4	“	“	“	Heating Loads
Ex. #CAC/GAC/MH-2-5	“	“	“	Previous DSM Plan Forecasts

Ex. #CAC/GAC/MH-2-6	“ “ “	Programs Retired from the 2011 Plan
Ex. #CAC/GAC/MH-2-7	“ “ “	Future DSM Efforts
Ex. #CAC/GAC-3	Written Testimony of Philippe U. Dunsky on behalf of Consumers Association of Canada (Manitoba) and Green Action Centre – November 15, 2012	
Ex. #CAC/GAC-4	Direct Testimony re: Manitoba Hydro’s 2011 Power Smart Plan	January 16, 2013
Ex. #CAC/GAC-5		

MANITOBA INDUSTRIAL POWER USERS' GROUP'S EXHIBITS

Ex. #MIPUG/MH-1-1	Manitoba Industrial Power Users Group 1 st round information requests and Manitoba Hydro's responses			Letter of Application and Summary & Reasons for Application – Completeness
Ex. #MIPUG/MH-1-2	“	“	“	Financial Targets
Ex. #MIPUG/MH-1-3	“	“	“	July 20, 2012 Interim Rates Filing
Ex. #MIPUG/MH-1-4	“	“	“	July 20, 2012 Interim Rates Filing - Wuskwatim
Ex. #MIPUG/MH-1-5	“	“	“	July 20, 2012 Interim Rates Filing – Brandon
Ex. #MIPUG/MH-1-6	“	“	“	Bill Comparisons – Other Jurisdictions
Ex. #MIPUG/MH-1-7	“	“	“	Power Smart Plan
Ex. #MIPUG/MH-1-8	“	“	“	Export Contracts
Ex. #MIPUG/MH-1-9	“	“	“	OM&A by Cost Element
Ex. #MIPUG/MH-1-10	“	“	“	Depreciation by Function
Ex. #MIPUG/MH-1-11	“	“	“	Financial Targets and Accumulated Other Comprehensive Income (AOCI)
Ex. #MIPUG/MH-1-12	“	“	“	Average Price Calculations, Export Sales, and Import Purchases
Ex. #MIPUG/MH-1-13	“	“	“	2008/09 Power Resource Plan
Ex. #MIPUG/MH-1-14	“	“	“	Depreciation Expenses
Ex. #MIPUG/MH-1-15	“	“	“	Gannett Fleming Depreciation Study
Ex. #MIPUG/MH-1-16	“	“	“	Depreciation Study – Wuskwatim
Ex. #MIPUG/MH-1-17	“	“	“	Depreciation Study - Brandon

Ex. #MIPUG/MH-1-18	“	“	“	IFRS and Power Smart Costs
Ex. #MIPUG/MH-1-19	“	“	“	2012 Load Forecast
Ex. #MIPUG/MH-1-20	“	“	“	Proof of Revenue
Ex. #MIPUG/MH-1-21	“	“	“	ICF Gas Price Forecast
Ex. #MIPUG/MH-1-22	“	“	“	OM&A – Power Smart, Site Remediation and Regulatory
Ex. #MIPUG/MH-1-23	“	“	“	IFF11-2 – Reduction in Export Revenue
Ex. #MIPUG/MH-1-24	“	“	“	Capital Expenditures – Base Capital
Ex. #MIPUG/MH-1-25	“	“	“	Exposure Management
Ex. #MIPUG/MH-1-26	“	“	“	Financial Results and Forecast – General Consumer Revenues
Ex. #MIPUG/MH-1-27	“	“	“	Financial Results and Forecast – Extraprovincial Revenues
Ex. #MIPUG/MH-1-28	“	“	“	Major Projects
Ex. #MIPUG/MH-1-29	“	“	“	Employee and EFT Data
Ex. #MIPUG/MH-1-30	“	“	“	Payments to Government
Ex. #MIPUG/MH-1-31	“	“	“	Sinking Fund
Ex. #MIPUG/MH-1-32	“	“	“	Electric Operations - Update
Ex. #MIPUG/MH-1-33	“	“	“	Comparison of Actual and Forecast Results
Ex. #MIPUG/MH-1-34	“	“	“	Equivalent Full Time Employees – Annual Results by Business Unit
Ex. #MIPUG/MH-1-35	“	“	“	Energy Supply
Ex. #MIPUG/MH-1-36	“	“	“	Drought Risk
Ex. #MIPUG/MH-1-37	“	“	“	Discount Rates
Ex. #MIPUG/MH-1-38	“	“	“	Load Forecast

Ex. #MIPUG/MH-1-39	“	“	“	Regulatory Costs Breakdown
Ex. #MIPUG/MH-1-40	“	“	“	2012 Load Forecast – General Service Customers
Ex. #MIPUG/MH-1-41	“	“	“	Manitoba Hydro Risk Presentation
Ex. #MIPUG/MH-1-42	“	“	“	Economic Outlook 20012 (EO2012)
Ex. #MIPUG/MH-1-43	“	“	“	IFF11-2
Ex. #MIPUG/MH-1-44	“	“	“	Curtable Rates
Ex. #MIPUG/MH-1-45	“	“	“	2011 Load Forecast
Ex. #MIPUG/MH-1-46	“	“	“	Top Consumer Energy Demand
Ex. #MIPUG/MH-2-1				Manitoba Industrial Power Users Group 2 nd round information requests and Manitoba Hydro’s responses
Ex. #MIPUG/MH-2-2	“	“	“	IFF11-1, 11-2 and 12
Ex. #MIPUG/MH-2-3	“	“	“	Wuskwatim – Impact on Rates
Ex. #MIPUG/MH-2-4	“	“	“	Rates in Other Jurisdictions
Ex. #MIPUG/MH-2-5	“	“	“	Power Smart – Marginal Value
Ex. #MIPUG/MH-2-6	“	“	“	Bioenergy
Ex. #MIPUG/MH-2-7	“	“	“	Export Contracts
Ex. #MIPUG/MH-2-8	“	“	“	Average Price Calculations – IFF11-2
Ex. #MIPUG/MH-2-9	“	“	“	Gannett Fleming Depreciation Study
Ex. #MIPUG/MH-2-10	“	“	“	Equal Life Group Method
Ex. #MIPUG/MH-2-11	“	“	“	Depreciation
Ex. #MIPUG/MH-2-12	“	“	“	
Ex. #MIPUG/MH-2-13	“	“	“	Wuskwatim – Dividends paid to NCN

Ex. #MIPUG/MH-2-14	“	“	“	Electric Heat
Ex. #MIPUG/MH-2-15	“	“	“	Employee Vacancy Rate
Ex. #MIPUG/MH-2-16	“	“	“	Wuskwatim – Dependable Energy
Ex. #MIPUG/MH-2-17	“	“	“	30-100 kV Impacts
Ex. #MIPUG/MH-2-18	“	“	“	Cost of Service
Ex. #MIPUG/MH-2-19	“	“	“	Stakeholder Consultation
Ex. #MIPUG/MH-2-20	“	“	“	Export Prices
Ex. #MIPUG/MH-2-21	“	“	“	50% Contract Demand Charge
Ex. #MIPUG/MH-2-22	“	“	“	50% Contract Demand Charge – Alternate Scenarios
Ex. #MIPUG-3	Pre-Filed Testimony of P. Bowman on behalf of Manitoba Industrial Power Users Group – November 16, 2012			
Ex/ #MIPUG/CAC/GAC-4-1	Manitoba Industrial Power Users Group’s information requests and Consumers’ Association of Canada (Manitoba) Inc./Green Action Centre’s responses			DSM Value
Ex. #MIPUG/CAC/GAC-4-2	“	“	“	Expenses
Ex. #MIPUG/CAC/GAC-4-3	“	“	“	Capacity
Ex. #MIPUG/CAC/GAC-4-4	“	“	“	Program Tests
Ex. #MIPUG/MH-5-1	Manitoba Industrial Power Users Group’s Pre-Ask Questions and Manitoba Hydro’s responses			
Ex. #MIPUG/MH-5-2	“	“	“	
Ex. #MIPUG/MH-5-3	“	“	“	
Ex. #MIPUG/MH-5-4	“	“	“	
Ex. #MIPUG/MH-5-5	“	“	“	

Ex. #MIPUG/MH-5-6	“ “ “	
Ex. #MIPUG-6-1	MIPUG Book of Documents	December 10/12
Ex. #MIPUG-6-2	“ “ “	“ “ “
Ex. #MIPUG-6-3	“ “ “	“ “ “
Ex. #MIPUG-6-4	“ “ “	“ “ “
Ex. #MIPUG-6-5	“ “ “	December 18, 2012
Ex. #MIPUG-6-6	“ “ “	“ “ “
Ex. #MIPUG-6-7	“ “ “	“ “ “
Ex. #MIPUG-6-8	“ “ “	“ “ “
Ex. #MIPUG-6-9	“ “ “	“ “ “
Ex. #MIPUG-6-10	“ “ “	January 8, 2013
Ex. #MIPUG-6-11	“ “ “	“ “ “
Ex. #MIPUG-7	Impact of Board Order 5/12 on rates effective April 1, 2013 and April 1, 2011	Filed March 30/12 by MH with PUB – Application for Interim Rates Effective April 1, 2012
Ex. #MIPUG-8	MIPUG Presentation to Manitoba Public Utilities Board	January 15, 2013
Ex. #MIPUG-9	Canexus Brandon - Sodium Chlorate Plant - PUB Presentation	January 15, 2013
Ex. #MIPUG-10	Undertaking #1, Tr Pg 5401	Re: MIPUG PUB/MIPUG-1-11 Financial Ratios – Consolidated

GREEN ACTION CENTRE'S EXHIBITS

Ex. #GAC/MH-1-1	Green Action Centre's 1 st round information requests and Manitoba Hydro responses.	Transmission and Distribution Marginal Cost
Ex. #GAC/MH-1-2	“ “ “	Generation Marginal Cost
Ex. #GAC/MH-1-3	“ “ “	Rate Design – Bill Comparison Spreadsheet
Ex. #GAC/MH-1-4	“ “ “	Bill Frequency
Ex. #GAC/MH-1-5	“ “ “	Seasonal Pricing
Ex. #GAC/MH-1-6	“ “ “	Marginal Cost Pricing
Ex. #GAC/MH-1-7	“ “ “	Proof of Revenue
Ex. #GAC/MH-1-8	“ “ “	Balancing Energy and Demand Charges
Ex. #GAC/MH-1-9	“ “ “	Demand-Side Management
Ex. #GAC/MH-1-10	“ “ “	Demand-Side Management – Internal and Independent Reviews of the Power Smart Program
Ex. #GAC/MH-1-11	“ “ “	Residential Late Fees
Ex. #GAC/MH-1-12	“ “ “	Residential Fees
Ex. #GAC/MH-1-13	“ “ “	Residential Late Payments – Statistics
Ex. #GAC/MH-1-14	“ “ “	Residential Arrears - Statistics
Ex. #GAC/MH-1-15	“ “ “	Residential Budget Billing Plan
Ex. #GAC/MH-1-16	“ “ “	Residential Cash Security Deposits
Ex. #GAC/MH-1-17	“ “ “	Credit and Collection Activities
Ex. #GAC/MH-1-18	“ “ “	Disconnection and Reconnection
Ex. #GAC/MH-1-19	“ “ “	Residential Average Monthly Bills
Ex. #GAC/MH-1-20	“ “ “	Cost Effectiveness of Residential

				Disconnections
Ex. #GAC/MH-1-21	“	“	“	Residential Revenue – Breakdown by Fee
Ex. #GAC/MH-1-22	“	“	“	General Service Large Time of Use (TOU) Rates
Ex. #GAC/MH-1-23	“	“	“	General Service Large Time of Use (TOU) Rates
Ex. #GAC/MH-1-24	“	“	“	General Service Large Time of Use (TOU) Rates
Ex. #GAC/MH-1-25	“	“	“	General Service Large Time of Use (TOU) Rates
Ex. #GAC/MH-1-26	“	“	“	General Service Large Time of Use (TOU) Rates
Ex. #GAC/MH-1-27	“	“	“	General Service Large Time of Use (TOU) Rates
Ex. #GAC/MH-1-28	“	“	“	General Service Large Time of Use (TOU) Rates
Ex. #GAC/MH-1-29	“	“	“	General Service Large Time of Use (TOU) Rates
Ex. #GAC/MH-1-30	“	“	“	General Service Large Time of Use (TOU) Rates
Ex. #GAC/MH-1-31	“	“	“	Fuel Switching – Environmental and Economic Impacts (plus Appendix 26)
Ex. #GAC/MH-1-32	“	“	“	Fuel Switching – Capital and Operating Costs
Ex. #GAC/MH-1-33	“	“	“	Residential Rate Comparisons with Other Cities
Ex. #GAC/MH-1-34	“	“	“	MISO GHG Profile
Ex. #GAC/MH-1-35	“	“	“	Integrated Low-Income Strategy
Ex. #GAC/MH-2-1	Green Action Centre’s 2 nd round information requests and Manitoba			Fuel Switching Report

Hydro responses.

Ex. #GAC/MH-2-2	“	“	“	Fuel Switching Report – Supporting Documentation
Ex. #GAC/MH-2-3	“	“	“	Work Papers for Various Reports
Ex. #GAC/MH-2-4	“	“	“	Fuel Switching Report – Boiler Heating Systems
Ex. #GAC/MH-2-5	“	“	“	Fuel Switching Report – Seasonal Coefficient of Performance
Ex. #GAC/MH-2-6	“	“	“	Fuel Switching Report – Response to Directive 17 of Board Orders 116/08 and 150/08
Ex. #GAC/MH-2-7	“	“	“	Fuel Switching Report – Water Heating
Ex. #GAC/MH-2-8	“	“	“	Fuel Switching Report – Average Home Size and Occupancy
Ex. #GAC/MH-2-9	“	“	“	Fuel Switching Report – 2012 Marginal Benefits Forecast
Ex. #GAC/MH-2-10	“	“	“	Fuel Switching Report – Workpapers Supporting 2012 Marginal Benefits Forecast
Ex. #GAC/MH-2-11	“	“	“	Fuel Switching Report - Geothermal
Ex. #GAC/MH-2-12	“	“	“	Fuel Switching Report – Existing Homes and New Homes
Ex. #GAC/MH-2-13	“	“	“	Fuel Switching Report – Commercial Customers
Ex. #GAC/MH-2-14	“	“	“	Fuel Switching Report – Sources Used to Estimate Fuel Switching
Ex. #GAC/MH-2-15	“	“	“	Fuel Switching Report – Additional Data
Ex. #GAC/MH-2-16	“	“	“	Fuel Switching Report – Switch to Electric Water/Space Heating

Ex. #GAC/MH-2-17	“	“	“	Load Forecast – Fuel Switching
Ex. #GAC/MH-2-18	“	“	“	Fuel Switching Report – Electric to Gas
Ex. #GAC/MH-2-19	“	“	“	Surplus Energy Program (SEP) – Volatility Adder
Ex. #GAC/MH-2-20	“	“	“	Surplus Energy Program (SEP) – Impact of Coal Prohibition
Ex. #GAC/MH-2-21	“	“	“	Surplus Energy Program (SEP) - Workpapers
Ex. #GAC/MH-2-22	“	“	“	Rate Design – Distribution and Load Diversity
Ex. #GAC/MH-2-23	“	“	“	DSM Avoided Costs – Marginal Cost Estimates
Ex. #GAC/MH-2-24	“	“	“	DSM Avoided Costs – Demand and Energy Loss Factors
Ex. #GAC/MH-2-25	“	“	“	DSM Avoided Costs – Derivation of Marginal Cost Estimates and Reserve Margin Requirements
Ex. #GAC/MH-2-26	“	“	“	Load Forecast – Monthly Breakdown
Ex. #GAC/MH-2-27	“	“	“	Residential Late Payments
Ex. #GAC/MH-2-28	“	“	“	General Service Late Payments
Ex. #GAC/MH-2-29	“	“	“	Avoided Costs
Ex. #GAC/MH-2-30	“	“	“	Rate Design – Proof of Revenue
Ex. #GAC/MH-2-31	“	“	“	Rate Design – Proof of Revenues – At April 2012 Rates
Ex. #GAC/MH-2-32	“	“	“	Rate Design – Proof of Revenue – General Service Large TOU Rate
Ex. #GAC/MH-2-33	“	“	“	Rate Design – Bill Comparisons – Spreadsheet Characteristics
Ex. #GAC/MH-2-34	“	“	“	Rate Design – Proof of Revenue –

			Spreadsheet Characteristics	
Ex. #GAC/MH-2-35	“	“	“	Rate Design – Bill Comparisons – Model Characteristics
Ex. #GAC/MH-2-36	“	“	“	Rate Design – Proposed TOU Rate for Large GS Class
Ex. #GAC/MH-2-37	“	“	“	Rate Design – Proposed TOU Rate for Large GS Class – 50% Ratchet Proposal
Ex. #GAC/MH-2-38	“	“	“	Rate Design – Proposed TOU Rate for the Large GS Class – Supply Agreement
Ex. #GAC/MH-2-39	“	“	“	Rate Design – Inverted Rates – Types of Data
Ex. #GAC/MH-2-40	“	“	“	Rate Design – Inverted Rates
Ex. #GAC/MH-2-41	“	“	“	Rate Design – Inverted Rates – Reports
Ex. #GAC/MH-2-42	“	“	“	Rate Design – Inverted Rates – Low-Income Customer Data
Ex. #GAC/MH-2-43	“	“	“	Targeted DSM
Ex. #GAC-3	Direct Testimony of Paul Chernick on Behalf of Green Action Centre – November 16, 2012			
Ex. #GAC-4	Green Action Centre Documents Re: Rate Review			January 8, 2013
Ex. #GAC-5	GAC Documents re DSM			January 11, 2013
Ex. #GAC-6	Sample Inclining Block Rate Design			January 16, 2013
Ex. #GAC-7	Undertaking #83 and 84, Tr Pg 3912			Spreadsheet underlying GAC Ex. #6 and email confirmation
Ex. #GAC-8	Undertaking #85, Tr Pg 3961			Samples of proof of revenue in other jurisdictions
Ex. #GAC-9	Undertaking #86, Tr Pg 4022			Four journal articles – Energy

Conservation Programs

EXHIBITS RELATED TO THE DISCLOSURE OF MANITOBA HYDRO'S INTERNAL POWER RESOURCE PLAN (PRP)

- | | |
|------------|---|
| Ex. #PRP-1 | Letter from the Public Interest Law Centre to the Public Utilities Board dated October 12, 2012 |
| Ex. #PRP-2 | Letter from Manitoba Hydro to the Public Utilities Board dated October 17, 2012 |
| Ex. #PRP-3 | Letter from the Public Utilities Board to Manitoba Hydro dated October 23, 2012 |
| Ex. #PRP-4 | Written Submission of Manitoba Hydro dated October 26, 2012 |
| Ex. #PRP-5 | Written Submission of GAC dated November 1, 2012 |
| Ex. #PRP-6 | Written Submission of CAC dated November 1, 2012 |
| Ex. #PRP-7 | Written Submission of MIPUG dated November 1, 2012 |
| Ex. #PRP-8 | Written Reply Submission of Manitoba Hydro dated November 6, 2012 |