

**MANITOBA HYDRO**  
**2010/11 AND 2011/12 GENERAL RATE APPLICATION HEARING**

**January 5, 2011**

(as of July 5, 2011)

**THE PUBLIC UTILITIES BOARD'S EXHIBITS**

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Ex. #PUB/KM-10-34	“	“	“



Ex. #PUB/KM-10-35	“	“	“
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Ex. #PUB/KM-10-52	“	“	“
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Ex. #PUB/KM-10-56	“	“	“
Ex. #PUB/KM-10-57	“	“	“
Ex. #PUB/KM-10-58	“	“	“

Ex. #PUB/KM-10-59	“ “ “	
Ex. #PUB/RCM/TRE E(Colton)- 11-1	PUB’s Information Requests of RCM/TREE’s witness Roger Colton and Responses	
Ex. #PUB/RCM/TREE (Colton)- 11-2	“ “ “	
Ex. #PUB/RCM/TREE (Colton)- 11-3	“ “ “	
Ex. #PUB/RCM/TREE (Colton)- 11-4	“ “ “	
Ex. #PUB/RCM/TREE (Colton)- 11-5	“ “ “	
Ex. #PUB/RCM/TREE (Colton)- 11-6	“ “ “	
Ex. #PUB/RCM/TREE (Colton)- 11-7	“ “ “	
Ex. #PUB/RCM/TREE (Colton)- 11-8	“ “ “	
Ex. #PUB/RCM/TREE (Colton)- 11-9	“ “ “	
Ex. #PUB/RCM/TREE (Colton)- 11-10	“ “ “	
Ex. #PUB/RCM/TREE (Colton)- 11-11	“ “ “	
Ex. #PUB/RCM/TREE (Colton)- 11-12	“ “ “	
Ex. #PUB/RCM/TREE (Colton)- 11-13	“ “ “	
Ex. #PUB/RCM/TREE (Chernick)- 11-14	PUB’s Information Requests of RCM/TREE’s witness Paul Chernick and Responses	
Ex. #PUB/RCM/TREE (Chernick )- 11-15	“ “ “	

Ex. #PUB/RCM/TREE (Chernick)- 11-16	“	“	“
Ex. #PUB/RCM/TREE (Chernick)- 11-17	“	“	“
Ex. #PUB/RCM/TREE (Chernick)- 11-18	“	“	“
Ex. #PUB/RCM/TREE (Chernick)- 11-19	“	“	“
Ex. #PUB/RCM/TREE (Chernick)- 11-20	“	“	“
Ex. #PUB/RCM/TREE (Chernick)- 11-21	“	“	“
Ex. #PUB/RCM/TREE (Chernick)- 11-22	“	“	“
Ex. #PUB/RCM/TREE (Chernick)- 11-23	“	“	“
Ex. #PUB/RCM/TREE (Chernick)- 11-24	“	“	“
Ex. #PUB/RCM/TREE (Chernick )- 11-25	“	“	“
Ex. #PUB/RCM/TREE (Chernick)- 11-26	“	“	“
Ex. #PUB/RCM/TREE (Chernick)- 11-27	“	“	“
Ex. #PUB/RCM/TREE (Chernick)- 11-28	“	“	“
Ex. #PUB/RCM/TREE (Chernick)- 11-29	“	“	“
Ex. #PUB/RCM/TREE (Chernick)- 11-30	“	“	“
Ex. #PUB/RCM/TREE (Wallach)- 11-31	PUB’s Information Requests of RCM/TREE’s witness Jonathon		

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Wallach and Responses

Ex. #PUB/RCM/TREE (Wallach)- 11-32	“	“	“
Ex. #PUB/RCM/TREE (Wallach)- 11-33	“	“	“
Ex. #PUB/RCM/TREE (Wallach)- 11-34	“	“	“
Ex. #PUB/RCM/TREE (Wallach)- 11-35	“	“	“
Ex. #PUB/RCM/TREE (Wallach)- 11-36	“	“	“
Ex. #PUB/RCM/TREE (Wallach)- 11-37	“	“	“
Ex. #PUB/RCM/TREE (Wallach)- 11-38	“	“	“
Ex. #PUB/RCM/TREE (Wallach)- 11-39	“	“	“
Ex. #PUB/RCM/TREE (Wallach)- 11-40	“	“	“
Ex. #PUB/RCM/TREE (Wallach)- 11-41	“	“	“

Ex. #PUB/CAC/MSOS (McCormick)-12-1	PUB's Information Requests of CAC/MSOS' Witness John McCormick and Responses
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Ex. #PUB/CAC/MSOS (McCormick)-12-2	“	“	“
Ex. #PUB/CAC/MSOS (McCormick)-12-3	“	“	“
Ex. #PUB/CAC/MSOS (McCormick)-12-4	“	“	“
Ex. #PUB/CAC/MSOS (McCormick)-12-5	“	“	“

Ex. #PUB/CAC/MSOS (McCormick)-12-6	“	“	“
Ex. #PUB/CAC/MSOS (McCormick)-12-7	“	“	“
Ex. #PUB/CAC/MSOS (McCormick)-12-8	“	“	“
Ex. #PUB/CAC/MSOS (McCormick)-12-9	“	“	“
Ex. #PUB/CAC/MSOS (McCormick)-12-10	“	“	“
Ex. #PUB/CAC/MSOS (McCormick)-12-11	“	“	“
Ex. #PUB/CAC/MSOS (McCormick)-12-12	“	“	“
Ex. #PUB/CAC/MSOS (McCormick)-12-13	“	“	“
Ex. #PUB/CAC/MSOS (McCormick)-12-14	“	“	“
Ex. #PUB/CAC/MSOS (McCormick)-12-15	“	“	“
Ex. #PUB/CAC/MSOS (McCormick)-12-16	“	“	“
Ex. #PUB/CAC/MSOS (Matwchuk)-12-17	PUB’s Information Requests of CAC/MSOS’ witness Greg Matwchuk and Responses		
Ex. #PUB/CAC/MSOS (Matwchuk)-12-18	“	“	“
Ex. #PUB/CAC/MSOS (Matwchuk)-12-19	“	“	“
Ex. #PUB/CAC/MSOS (Matwchuk)-12-20	“	“	“
Ex. #PUB/CAC/MSOS (Matwchuk)-12-21	“	“	“

Ex. #PUB/CAC/MSOS (Matwichuk)-12-22	“	“	“
Ex. #PUB/CAC/MSOS (Matwichuk)-12-23	“	“	“
Ex. #PUB/CAC/MSOS (Matwichuk)-12-24	“	“	“
Ex. #PUB/CAC/MSOS (Carter)-12-25	PUB’s Information Requests of CAC/MSOS’ witness Tom Carter and Responses		
Ex. #PUB/CAC/MSOS (Carter)-12-26	“	“	“
Ex. #PUB/CAC/MSOS (Carter)-12-27	“	“	“
Ex. #PUB/MIPUG-13-1	PUB’s Information Requests of MIPUG and MIPUG’s Responses		
Ex. #PUB/MIPUG-13-2	“	“	“
Ex. #PUB/MIPUG-13-3	“	“	“
Ex. #PUB/MIPUG-13-4	“	“	“
Ex. #PUB/MIPUG-13-5	“	“	“
Ex. #PUB/MIPUG-13-6	“	“	“
Ex. #PUB/MIPUG-13-7	“	“	“
Ex. #PUB/MIPUG-13-8	“	“	“
Ex. #PUB/MIPUG-13-9	“	“	“
Ex. #PUB/MIPUG-13-10	“	“	“
Ex. #PUB/MIPUG-13-11	“	“	“
Ex. #PUB/MIPUG-13-12	“	“	“
Ex. #PUB/MIPUG-13-13	“	“	“
Ex. #PUB/MIPUG-13-14	“	“	“

Ex. #PUB/MIPUG-13-15	“	“	“
Ex. #PUB/MIPUG-13-16	“	“	“
Ex. #PUB/MIPUG-13-17	“	“	“
Ex. #PUB/MIPUG-13-18	“	“	“
Ex. #PUB/MIPUG-13-19	“	“	“
Ex. #PUB/MIPUG-13-20	“	“	“
Ex. #PUB/MIPUG-13-21	“	“	“
Ex. #PUB/MIPUG-13-22	“	“	“
Ex. #PUB/MIPUG-13-23	“	“	“
Ex. #PUB/MH-14-1	The Public Utilities Board’s pre-ask questions of Manitoba Hydro and responses		
Ex. #PUB/MH-14-2	“	“	“
Ex. #PUB/MH-14-3	“	“	“
Ex. #PUB/MH-14-4	“	“	“
Ex. #PUB/MH-14-5	“	“	“
Ex. #PUB/MH-14-6	“	“	“
Ex. #PUB/MH-14-7	“	“	“
Ex. #PUB/MH-14-8	“	“	“
Ex. #PUB/MH-14-9	“	“	“
Ex. #PUB/MH-14-10	“	“	“
Ex. #PUB/MH-14-11	“	“	“
Ex. #PUB/MH-14-12	“	“	“
Ex. #PUB/MH-14-13	“	“	“
Ex. #PUB/MH-14-14	“	“	“

Ex. #PUB/MH-14-15	“	“	“
Ex. #PUB/MH-14-16	“	“	“
Ex. #PUB/MH-14-17	“	“	“
Ex. #PUB-15	Board Counsel Book of Documents – Volume 1		
Ex. #PUB-16	Board Counsel Book of Documents – Volume 2		
Ex. #PUB-17	Board Counsel Book of Documents – KPMG Report – February 28, 2011		
Ex. #PUB-18	Board Counsel Book of Documents – Volume 3	March 7, 2011	
Ex. #PUB-19	Winnipeg Free Press	Leaked document – MH - Capital Project Justification Addendum for Bipole III	
Ex. #PUB-19a	MH signed CPJ	Bipole III Capital Project justification	
Ex. #PUB-20	Book of Documents	Cross-examination of Drs. Kurbursi and Magee	
Ex. #PUB-21	PUB Pre-Ask Questions	Questions to Drs. Kubursi and Magee	
Ex. #PUB-22	Undertaking Questions 1-25 – PUB to Independent Expert	May 17, 2011	
Ex. #PUB-23	Board Counsel response to MH letter of May 20/11	May 24, 2011	
Ex. #PUB-24	PUB response to MIPUG issues with PUB pre-ask questions	Letter dated May 30, 2011	
Ex. #PUB-25	Incremental Revenue Requirements After In-Service of Capital Projects	Bipole III, Keeyask and Conawapa	



## **MANITOBA HYDRO'S EXHIBITS**

Ex. #MH-1-1	Letter dated November 30, 2009 from Manitoba Hydro to the Board attaching Application	
Ex. #MH-1-2	Letter dated January 15, 2010 attaching updates to Application	
Ex. #MH-2-1(a)	Letter dated February 3, 2010 from Manitoba Hydro to the Board	20 Year Financial Outlook – 2009/10 – 2028/29 – January 2010
Ex. #MH-2-2(b)	Letter dated February 3, 2010 from Manitoba Hydro to the Board	Manitoba Hydro Affordable Energy Program – November 10/09
Ex. #MH-3-1(a)	Letters dated February 26 and March 5, 2010 from Manitoba Hydro to the Board	KPMG Terms of Reference
Ex. #MH-3-1(b)	Letters dated February 26 and March 5, 2010 from Manitoba Hydro to the Board	Internal Reports
Ex. #MH-3-1©	Letters dated February 26 and March 5, 2010 from Manitoba Hydro to the Board	External Reports
Ex. #MH-4-1	Appendix B – MH's March 2007 comments on the NYC's December 4, 2006 Report	
Ex. #MH-4-2	Appendix C – MH's 2007 comments on the NYC's December 4 2006 Report	
Ex. #MH-4-3	Appendix D – MH's October 2008 Middle Office Review of the NYC's Reports	
Ex. #MH-4-4	Appendix E – MH's October 2008 Middle Office comments on the NYC's Long Term Contracts Risk Report	
Ex. #MH-4-5	Appendix F – MH's May 2008 review of the NYC's January 2008 and	

December 2006 Reports

Ex. #MH-4-6	Appendix G – MH’s December 2008 Export Power Sales Risk Management Issues		
Ex. #MH-4-7	KPMG’s April 2010 Report and Appendices		
Ex. #MH/KM-5-1	Manitoba Hydro’s information requests of the Independent Witnesses’ and responses		
Ex. #MH/KM-5-2	“	“	“
Ex. #MH/KM-5-3	“	“	“
Ex. #MH/KM-5-4	“	“	“
Ex. #MH/KM-5-5	“	“	“
Ex. #MH/KM-5-6	“	“	“
Ex. #MH/KM-5-7	“	“	“
Ex. #MH/KM-5-8	“	“	“
Ex. #MH/KM-5-9	“	“	“
Ex. #MH/KM-5-10	“	“	“
Ex. #MH/KM-5-11	“	“	“
Ex. #MH/KM-5-12	“	“	“
Ex. #MH/KM-5-13	“	“	“
Ex. #MH/KM-5-14	“	“	“
Ex. #MH/KM-5-15	“	“	“
Ex. #MH/KM-5-16	“	“	“
Ex. #MH/KM-5-17	“	“	“
Ex. #MH/KM-5-18	“	“	“

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Ex. #MH/KM-5-19		“	“	“	
Ex. #MH/KM-5-20		“	“	“	
Ex. #MH/KM-5-21		“	“	“	
Ex. #MH/KM-5-22		“	“	“	
Ex. #MH/KM-5-23		“	“	“	
Ex. #MH/KM-5-24		“	“	“	
Ex. #MH/KM-5-25		“	“	“	
Ex. #MH/KM-5-26		“	“	“	
Ex. #MH/KM-5-27		“	“	“	
Ex. #MH/KM-5-28		“	“	“	
Ex. #MH/CAC/MSOS (Carter)- 6-1	Manitoba Hydro's information requests of CAC/MSOS's witness (Tom Carter) and responses				
Ex. #MH/CAC/MSOS (Carter)-6- 2	27	“	“	“	2
Ex. #MH/CAC/MSOS (Carter)- 6-3		“	“	“	
Ex. #MH/CAC/MSOS (Carter)- 6-4		“	“	“	
Ex. #MH/CAC/MSOS (Carter)- 6-5		“	“	“	
Ex. #MH/CAC/MSOS (Carter)- 6-6		“	“	“	
Ex. #MH/CAC/MSOS (Carter)- 6-7		“	“	“	
Ex. #MH/CAC/MSOS (Carter)- 6-8		“	“	“	
Ex. #MH/MIPUG-7-1	Manitoba Hydro's information requests of MIPUG's witness and				

	responses
Ex. #MH/MIPUG-7-2	“ “ “
Ex. #MH-8	Rebuttal Evidence
Ex. #MH-9	Affidavit of Publication and Services dated October 15, 2010
Ex. #MH-10	Letter from MH re: CAC/MSOS Motion for Disclosure dated October 15, 2010
Ex. #MH-11	Written Qualifications – CVs of V. Warden, D. Rainkie, H. Surminski, L. Kuczek, R. Wiens, D. Cormie
Ex. #MH-12	Presentation to PUB by V. Warden – January 5, 2011
Ex. #MH/RCM/TREE (Chernick) -13-1	Manitoba Hydro's information requests of RCM/TREE's witness Paul Chernick and responses
Ex. #MH/RCM/TREE (Chernick)-13-2	“ “ “
Ex. #MH/RCM/TREE (Chernick)-13-3	“ “ “
Ex. #MH/RCM/TREE (Chernick)-13-4	“ “ “
Ex. #MH/RCM/TREE (Colton)-13-5	Manitoba Hydro's information requests of RCM/TREE's witness Roger Colton and responses
Ex. #MH/RCM/TREE (Colton)-13-6	“ “ “
Ex. #MH/RCM/TREE (Colton)-13-7	“ “ “
Ex. #MH/RCM/TREE (Colton)-13-8	“ “ “
Ex. #MH/RCM/TREE (Colton)-13-9	“ “ “

Ex. #MH/RCM/TREE (Colton)-13-10	“ “ “	
Ex. #MH/RCM/TREE (Colton)-13-11	“ “ “	
Ex. #MH/RCM/TREE (Colton)-13-12	“ “ “	
Ex. #MH/RCM/TREE (Colton)-13-13	“ “ “	
Ex. #MH/RCM/TREE (Wallach)-13-14	Manitoba Hydro's information requests of RCM/TREE's witness Jonathon Wallach and responses	
Ex. #MH/RCM/TREE (Wallach)-13-15	“ “ “	
Ex. #MH-14	Witness Qualifications – CV – M. Schulz	
Ex. #MH-15	Undertaking#2 – Tr Pg #762	Comparison of IFF 08 to IFF 09
Ex. #MH-16	Undertaking #6 – Tr Pg #906	Impact of electricity price of \$15 green house gas penalty
Ex. #MH-17	Undertaking #7 – Tr Pg#925	Cost of external consultants on risk matters
Ex. #MH-18	Undertaking #9 – Tr Pgs #992-993	Average weekly wages and cost of living in other provinces
Ex. #MH-19	Undertaking # - Tr Pgs#1021-1022	CPI inflation rates
Ex. #MH-20	Undertaking #10 –Tr Pgs #1031-1032	Conawapa residual costs written off
Ex. #MH-21	Undertaking #5 – Tr Pg #843-846	Clarify categorization of import transactions
Ex. #MH-22	Undertaking #8 – Tr Pg #982	Total cost of ownership of computers
Ex. #MH-23	Undertaking #4 – Tr Pg #825	Merchant trading net results for past 5 years
Ex. #MH-24	Undertaking #15 – Tr Pg #1355	Pointe de Bois terminal date

Ex. #MH-25	Undertaking #17 – Tr Pg #1367	Payments to Provincial Government fiscal 2010
Ex. #MH-26	Undertaking #18 – Tr Pg #1398	Hot water fees
Ex. #MH-27	Undertaking #20 – Tr Pg #1462	East Side studies – Cost re Bipole III
Ex. #MH-28	Undertaking #11 – Tr Pg #1198	Gas plants on stream in the last 3 years in MISO
Ex. #MH-29	Undertaking #25 – Tr Pg #1630	Projected Operating Statement Electric Operations (MH09-1)
Ex. #MH-30	Undertaking #26 – Tr Pg #1659	Transmission Capacity – Keeyask – Bipoles I and II
Ex. #MH-31	Undertaking #14 – Tr Pgs #1343-1345	Affordable Energy Fund expenditures
Ex. #MH-32	Undertaking #19 – Tr Pg #1417	Rate regulated assets and liability Big 4 accounting firms
Ex. #MH-33	Undertaking #40 – Tr Pg #2083	Net income loss in 1993
Ex. #MH-34	Undertaking #32 – Tr Pg #1909	U.S. opportunity sales 2004 and 2005
Ex. #MH-35	Undertaking #22 – Tr Pgs #1485-1486	Best estimate of when Wuskwatim will be required to service MB load
Ex. #MH-36	Undertaking #27 – Tr #Pg 1735	Gigawatt hours lost since 1981
Ex. #MH-37	Undertaking #28 – Tr Pgs #1735-1737	How loss is included in the calculation of speculative increase
Ex. #MH-38	Undertaking #29 – Tr Pgs #1749-1750	Top consumer forecasts for 3 different load forecasts (May 2008, May 2009 and Aug 2010)
Ex. #MH-39	Undertaking #38 – Tr Pg #2044	Annual RSG charges paid by MH since 2005
Ex. #MH-40	Undertaking #39 – Tr Pg #2072	Since Lake Winnipeg regulation (1976) the years that MH hydraulic generation exceeded domestic load
Ex. #MH-41	Undertaking #3 – Tr Pgs #814-817	Quantify the transmission and

		ancillary service costs forecast for 2020 and actual in 2010
Ex. #MH-42	Undertaking #24 – Tr Pg #1515-1516	IFF assumption in respect to WPLP export revenues on an energy basis (PUB/MH II 38(b))
Ex. #MH-43	Undertaking #12 – Tr Pg #1315	Refile of PUB/MH-1-35(e)
Ex. #MH-44	Undertaking #13 – Tr Pg 1319	IFF10, short and long term interest
Ex. #MH-45	Undertaking #21 – Tr Pg 1482-1483	Schedule of long term debt
Ex. #MH-46	Undertaking #31 – Tr Pg 1905-1906	Water flows
Ex. #MH-47	Undertaking #33 – Tr Pg 1928	Reservoirs flows
Ex. #MH-48	Undertaking #34 – Tr Pg 1933-1934	Energy in storage
Ex. #MH-49	Undertaking #41 – Tr Pg 2117	Response to Art Derry
Ex. #MH-50	Undertaking #42 – Tr Pg 2138	Revenue per kW.h
Ex. #MH-51	Undertaking #3 – Tr Pg 2214 Undertaking #48 – Tr Pg 2357	Unit prices, quantity of energy and dollar amounts for 2009/2010
Ex. #MH-52	Undertaking #50 – Tr Pg 2389	Assumptions in OM&A costs
Ex. #MH-53	Undertaking #35 – Tr Pg 1953	Risk Management Report April 2003
Ex. #MH-54	Undertaking #37 – Tr Pg 2029	Opportunity term sales
Ex. #MH-55	ICF Direct Testimony – Judah Rose of ICF	
Ex. #MH-56	Undertaking #23 – Tr Pg 1504	IRR at CEC hearings, last GRA
Ex. #MH-57	Undertaking #44 – Tr Pg 2314 Undertaking #45 – Tr Pg 2315 Undertaking #46 – Tr Pg 2316	Domestic energy sales and losses IFF09 vs IFF10 Domestic Energy sales EIIR Revenues Domestic Sales Average Price
Ex. #MH-58	Undertaking #43 – Tr Pg 2310	Accumulated other comprehensive income
Ex. #MH-59	MH Quarterly Report	For the nine months ended December 31, 2010

Ex. #MH-60	Undertaking #56 – Tr Pg 2721	Extension on 2010 natural gas forecast to 2035
Ex. #MH-61	KPMG Direct Evidence – February 28, 2011	
Ex. #MH-62	Manitoba Hydro – Middle and Back Office Assessment	KPMG Report dated May 20, 2010
Ex. #MH-63	Undertaking #74 – Tr Pg 3496	Footnote Pg 12 Middle and Back Office Assessment
Ex. #MH-64	Undertaking #77 – Tr Pg 3717-3718	KPMB: Export prices/monthly vs annual price profile
Ex. #MH-65	Undertaking #49 – Tr Pg 2370-2371	Discount rate on major capital projects
Ex. #MH-66	Undertaking #55 – Tr Pg 2653-2654	ICF – list of reports reviewed post September 2009
Ex. #MH-67	Undertaking #83 – Tr Pg 3935	Xcel June 2010 filing update to PUC
Ex. #MH-68	Undertaking #69 – Tr Pg 3249	KPMB draft risk report of March 31, 2010
Ex. #MH-69	Moody's Investors Service – Credit Opinion	February 7, 2011
Ex. #MH-70	CAC/MSOS/MH/PRE-ASK-1	Vol. 2 IFF-09-01 Appendix 5.2; Vol. 28 March 31/01 PCOSS Appendix 58
Ex. #MH-71	CAC/MSOS/MH/PRE-ASK-2	Vol. 2 App. 5.2; Vol. 8 PUB/MH I-200(c)
Ex. #MH-72	MH – 20 Year Financial Outlook 2010/11 – 2029/30	March 2011
Ex. #MH-73	PUB-Pre-Asks IFF10 20 yr – IFF10	Financial Ratios Cash flow statement
Ex. #MH-74	Undertaking #47 – Tr Pg 2353	Capital costs St. Leon and St. Joseph Wind Farms
Ex. #MH-75	Undertaking #65 - Tr Pg 3066	Discount rate for NPV in footnote



		2, page 4 of ICF Report
Ex. #MH-76	Undertaking #75 – Tr Pg 3515	Cost of KPMB for appearance and preparation for hearing
Ex. #MH-77	Undertaking #79 - Tr Pg #3791	Payments to governments post Keeyask and Conawapa 2005-2030
Ex. #MH-78	Undertaking #81 – Tr Pg #3890	Bipole media costs of \$316,499
Ex. #MH-79	Undertaking #85 – Tr Pg #4069-4070	Adverse water clause in NSP contract
Ex. #MH-80	Undertaking #70 – Tr Pg #3251	KPMB presentation to MH on risk report – minutes of meeting
Ex. #MH-81	Undertaking #78 – Tr Pg #3765, 3770-3771	ICF Report – Present value of \$153 m customer savings
Ex. #MH-82	Undertaking #80 – Tr Pg # 3793	ICF revised gas costs and capital forecast/Keeyask/Wuskwatim
Ex. #MH-83	Undertaking #57 – Tr Pg 2779	Electrical generation in MISO
Ex. #MH-84	Undertaking #59 – Tr Pg 2883	Present value study – costs of Conawapa, Keeyask and Bipole III
Ex. #MH-85	Undertaking #61 – Tr Pg 2896	ICF review of Bhattacharyya’s report “Risks in Power Exports”
Ex. #MH-86	Undertaking #63 – Tr Pg 2996	Power Capacity Retirements – Kentucky
Ex. #MH-87	Undertaking #64 – Tr Pg 2997-99	ICF Sources/links to forecasts
Ex. #MH-88	Undertaking #88 – Tr Pg 3916	KPMG recommendations
Ex. #MH-89	Undertaking #89 – Tr Pg 4388	Bipole III Consultant
Ex. #MH-90	Undertaking #90 – Tr Pg 4399	Bipole III Consultant’s costs
Ex. #MH-91	Undertaking #92 – Tr Pg 4461-63	Moody’s Rating Symbols”
Ex. #MH-92	Undertaking #94 – Tr Pg 4507-08	Water and Energy Saver Program/Low Income Energy Efficient Program – Participant costs

Ex. #MH-93	Undertaking #95 – Tr Pg 4518-19	Furnace Replacement Program
Ex. #MH-94	Undertaking #98 – Tr Pg 4615	Collection of debts
Ex. #MH-95	Undertaking #102 – Tr Pg 4712	Curtable Rate Program
Ex. #MH-96	Undertaking #103 – Tr Pg 4719	Billing Demand Concession
Ex. #MH-97	Undertaking #87 – Tr Pg 4371	MH Audit Committee 20 YR Financial Outlook
Ex. #MH-98	Undertaking #104 – Tr Pg 4855	CPJ Addendum and Audit Committee
Ex. #MH-99	Undertaking #105 – Tr Pg 4861	Bipole III signed copy of Ex. #19
Ex. #MH-100	Tr Pg 4869	CJP Addendum – Ex Committee Recommendation
Ex. #MH-101	Undertaking #106 – Tr Pg 4864-65	CJP Addendum – sign off by Managers
Ex. #MH-102	Undertaking #107 – Tr Pg 4891	Terms and Conditions of Bipole III consultant
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Ex. #MH-110	Wuskwatim NFAAT Avg Export Prices (2002\$)	Using US GDP price deflator
Ex. #MH-111	Undertaking #99 – Tr Pg 4669	Hydraulic generation allocation PCOSS-08 to PCOSS-11

Ex. #MH-112	Undertaking #122 – Tr Pgs 5484-5485	Cost constraint measures
Ex. #MH-113	April 14, 2011 of ICF response of Judah Rose	Response to questions from Dr. Kubursi and Dr. Magee
Ex. #MH-114	Undertaking #84 – Tr Pg 4029	Minutes of Settlement with City of Winnipeg
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Ex. #MH-117	Undertaking #101 – Tr Pg 4709	PCOSS10; PCOSS11 schedules B1 and B2
Ex. #MH-118	Undertaking #109 – Tr Pg 4992	Bipole III cost estimates
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Ex. #MH-144	Undertaking #51 – Tr Pg 2466	Bipole III review (provided in confidence to the Board)
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Ex. #MH-148	Undertaking #139 – Tr Pg 5792	Residential arrears/Mr. Colton – Table 3
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Ex. #MH-151	Stats Canada – Electric Power Generation	Table 8-2 – Income Account 2007
Ex. #MH-152	MH Book of Documents	Examination of Roger D. Colton
Ex. #MH-153	PUB/RCM/TREE-7b	Undertaking to compare MH/RCM/TREE data
Ex. #MH-154	MH 20 Year Financial Outlook – revised Bipole III costs	2010/11 – 2029/30
Ex. #MH-155	IFF10 Export Revenue Assumptions	June 9/11
Ex. #MH-156	MH Projected Operating Statement	Electric Operations
Ex. #MH-157	Power Smart Annual Report 2009/2010	May 24, 2011

**CONSUMERS' ASSOCIATION OF CANADA (MANITOBA) INC., MANITOBA SOCIETY OF SENIORS' EXHIBITS**

Ex. #CAC/MSOS/MH-1-1	Consumers' Association of Canada (Manitoba) Inc. and Manitoba Society of Seniors' 1 <sup>st</sup> round information requests and Manitoba Hydro's responses			Reducing the BMC
Ex. #CAC/MSOS/MH-1-2	"	"	"	2009 rate increases implemented by a number of Canadian electric utilities.
Ex. #CAC/MSOS/MH-1-3	"	"	"	Table 2.1.1 with adjustments
Ex. #CAC/MSOS/MH-1-4	"	"	"	Reconcile the actual electricity segment results
Ex. #CAC/MSOS/MH-1-5	"	"	"	Comparing the actual values for 2007/08 and 2008/09
Ex. #CAC/MSOS/MH-1-6	"	"	"	Annual Report for Year Ended March 31, 2009, Note 22
Ex. #CAC/MSOS/MH-1-7	"	"	"	Export prices
Ex. #CAC/MSOS/MH-1-8	"	"	"	Debt ratio
Ex. #CAC/MSOS/MH-1-9	"	"	"	2007/08 CSP
Ex. #CAC/MSOS/MH-1-10	"	"	"	Corporate Overview Tab 3, page 8
Ex. #CAC/MSOS/MH-1-11	"	"	"	Capital projects
Ex. #CAC/MSOS/MH-1-12	"	"	"	Reconciliation of differences between the Total Revenue, OM&A and Net Income values for 2007/08 and 2008/09
Ex. #CAC/MSOS/MH-1-13	"	"	"	Extraprovincial revenue
Ex. #CAC/MSOS/MH-1-14	"	"	"	Other revenue
Ex. #CAC/MSOS/MH-1-15	"	"	"	OM&A
Ex. #CAC/MSOS/MH-1-16	"	"	"	OM&A expense

Ex. #CAC/MSOS/MH-1-17	“	“	“	OM&A expense
Ex. #CAC/MSOS/MH-1-18	“	“	“	OM&A expense
Ex. #CAC/MSOS/MH-1-19	“	“	“	OM&A expense
Ex. #CAC/MSOS/MH-1-20	“	“	“	OM&A expense
Ex. #CAC/MSOS/MH-1-21	“	“	“	Financial expense
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Ex. #CAC/MSOS/MH-1-23	“	“	“	Water Rentals and Assessments
Ex. #CAC/MSOS/MH-1-24	“	“	“	Fuel and Power Purchased
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Ex. #CAC/MSOS/MH-1-35	“	“	“	Financial Forecast – Power Supply and DSM
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Ex. #CAC/MSOS/MH-1-49	“	“	“	Financial forecast – capital spending- Bipole 1 by-pass vacuum switch removal
Ex. #CAC/MSOS/MH-1-50	“	“	“	Financial forecast – capital spending- HVDC Bipole 1 transformer marshalling kiosk replacement
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Ex. #CAC/MSOS/MH-1-52	“	“	“	Financial Forecast – Capital Spending- Laurie River Plants- Ridgeway – Selkirk-St. James 24 kv System Refurbishment
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Ex. #CAC/MSOS/MH-1-68	“	“	“	Cost of Service- Terms of Reference for the external contract
Ex. #CAC/MSOS/MH-1-69	“	“	“	Cost of Service- treatment of DSM costs and savings
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Ex. #CAC/MSOS/MH-1-80	“	“	“	Power smart review 2007/2008- energy efficient light fixtures mail-in rebate program
Ex. #CAC/MSOS/MH-1-81	“	“	“	Power smart review 2007/2008- natural gas customer service initiatives & cost recovery programs
Ex. #CAC/MSOS/MH-1-82	“	“	“	Power smart review 2007/2008- electric incentive based programs
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				based programs
Ex. #CAC/MSOS/MH-1-84	“	“	“	Power smart
Ex. #CAC/MSOS/MH-1-85	“	“	“	Diesel update hearing
Ex. #CAC/MSOS/MH-1-86	“	“	“	Report on Recommendations for Reducing or Eliminating the Use of Diesel Fuel to Supply Power in Off-Grid Communities
Ex. #CAC/MSOS/MH-1-87	“	“	“	Diesel -customers in each class
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Ex. #CAC/MSOS/MH-1-89	“	“	“	Diesel Update Hearing-documents on the record of this proceeding
Ex. #CAC/MSOS/MH-1-90	“	“	“	Updated information-Diesel Update Hearing
Ex. #CAC/MSOS/MH-1-91	“	“	“	Diesel Update Hearing-status of the Settlement Agreement
Ex. #CAC/MSOS/MH-1-92	“	“	“	Options for re-structuring diesel rates considered by Manitoba Hydro
Ex. #CAC/MSOS/MH-1-93	“	“	“	Undertakings #1 – 2, filed following the Diesel Update Hearing
Ex. #CAC/MSOS/MH-1-94	“	“	“	Diesel Update Hearing-2000 kwh monthly limit
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Ex. #CAC/MSOS/MH-1-97	“	“	“	Risk review- cvs of the individuals at KPMG
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Ex. #CAC/MSOS/MH-1-99	“	“	“	How much the Corporation has spent to date, and anticipates spending in the future, with respect to the disclosure pursuant to the Public Interest Disclosure Act
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				debt/equity ratio
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Ex. #CAC/MSOS/MH-1-132	“	“	“	Operating, Maintenance and Administrative Cost- Corporate Planning and Strategic Analysis group
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Ex. #CAC/MSOS/MH-1-139	“	“	“	Debt and Debt Management – Finance Expense- CAC/MSOS/Centra 2-75, and CAC/MSOS/Centra 2-158.
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				Finance Expense- the financing plan for the forecast 2010/11, 2011/12 period
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Ex. #CAC/MSOS/MH-1-145	“	“	“	Debt and Debt Management Strategy- reduction in US dollar debt in absolute terms
Ex. #CAC/MSOS/MH-1-146	“	“	“	Debt and Debt Management Strategy- Coalition/HYDRO II-85 (c) from the previous GRA
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Ex. #CAC/MSOS/MH-1-189	“	“	“	New head office
Ex. #CAC/MSOS/MH-1-190	“	“	“	General service rates
Ex. #CAC/MSOS/MH-1-191	“	“	“	Small and Medium Class Consolidation
Ex. #CAC/MSOS/MH-1-192	“	“	“	Use of Diesel in Off-Grid Communities

Ex. #CAC/MSOS/MH-1-193	“	“	“	Temporary Billing Demand Concessions- Application and all subsequent supporting materials filed with the PUB underlying Order 126/09
Ex. #CAC/MSOS/MH-1-194	“	“	“	Temporary Billing Demand Concessions- how many of the 10 accounts receiving the Temporary Billing Concession also received financial assistance from the province
Ex. #CAC/MSOS/MH-1-195	“	“	“	Manitoba Hydro Affordable Energy Program # charges waived/reduced in 2009 for residential customers
Ex. #CAC/MSOS/MH-1-196	“	“	“	Manitoba Hydro Affordable Energy Program- NHN program,
Ex. #CAC/MSOS/MH-1-197	“	“	“	Manitoba Hydro Affordable Energy Program- full time staff to field calls and pre-qualify customer for interviews
Ex. #CAC/MSOS/MH-1-198	“	“	“	20-year financial outlook
Ex. #CAC/MSOS/MH-1-199	“	“	“	Export Power Sales and Risks
Ex. #CAC/MSOS/MH-1-200	“	“	“	Curtaillable power
Ex. #CAC/MSOS/MH-1-201	“	“	“	Low-Income Assistance and DSM March 4, 2010 IndEco Strategic Consulting Inc
Ex. #CAC/MSOS/MH-2-1	Consumers' Association of Canada (Manitoba) Inc. and Manitoba Society of Seniors' 2 <sup>nd</sup> round information requests and Manitoba Hydro's responses			Electric Operations reported
Ex. #CAC/MSOS/MH-2-2	“	“	“	Depreciation and financial expenses associated with subsidiaries
Ex. #CAC/MSOS/MH-2-3	“	“	“	Export revenues
Ex. #CAC/MSOS/MH-2-4	“	“	“	Comparison of actual market conditions with those forecast

Ex. #CAC/MSOS/MH-2-5	“	“	“	IFF08-1 export revenues
Ex. #CAC/MSOS/MH-2-6	“	“	“	OM&A /IFRS forecasts for 2009/10 and 2010/11
Ex. #CAC/MSOS/MH-2-7	“	“	“	Business unit performance measures
Ex. #CAC/MSOS/MH-2-8	“	“	“	Corporate Planning and Strategic Planning Business Unit
Ex. #CAC/MSOS/MH-2-9	“	“	“	OM&A and customer count values
Ex. #CAC/MSOS/MH-2-10	“	“	“	Target adjustments
Ex. #CAC/MSOS/MH-2-11	“	“	“	Tenants for the new head office
Ex. #CAC/MSOS/MH-2-12	“	“	“	OM&A expense
Ex. #CAC/MSOS/MH-2-13	“	“	“	OM&A target for 2009/10
Ex. #CAC/MSOS/MH-2-14	“	“	“	Transfer of Wire & Telecom services
Ex. #CAC/MSOS/MH-2-15	“	“	“	Transmission GIS project
Ex. #CAC/MSOS/MH-2-16	“	“	“	Arbitrage merchant transactions
Ex. #CAC/MSOS/MH-2-17	“	“	“	Elimination entries Fuel and Power Purchased
Ex. #CAC/MSOS/MH-2-18	“	“	“	Forecasts not considered to be statistically independent
Ex. #CAC/MSOS/MH-2-19	“	“	“	Electric operations OM&A
Ex. #CAC/MSOS/MH-2-20	“	“	“	CAC/MSOS/MH I-38 b) and d)
Ex. #CAC/MSOS/MH-2-21	“	“	“	Transmission and distribution
Ex. #CAC/MSOS/MH-2-22	“	“	“	Separating the switchyard into three zones
Ex. #CAC/MSOS/MH-2-23	“	“	“	Low and high export price forecast
Ex. #CAC/MSOS/MH-2-24	“	“	“	COSA changes included in the Settlement Agreement subject to

				review by the PUB
Ex. #CAC/MSOS/MH-2-25	“	“	“	Portion of deficit that the Diesel Communities are responsible for
Ex. #CAC/MSOS/MH-2-26	“	“	“	OM&A target as per the relevant CSP
Ex. #CAC/MSOS/MH-2-27	“	“	“	Inclusion of AOCI
Ex. #CAC/MSOS/MH-2-28	“	“	“	Productivity improvement factor
Ex. #CAC/MSOS/MH-2-29	“	“	“	Surplus energy program
Ex. #CAC/MSOS/MH-2-30	“	“	“	Surplus energy program
Ex. #CAC/MSOS/MH-2-31	“	“	“	Application of TOU rates to regular GS-Large customers
Ex. #CAC/MSOS/MH-2-32	“	“	“	Loads and revenues for the EIIR class
Ex. #CAC/MSOS/MH-2-33	“	“	“	Forecast NEB Assessments
Ex. #CAC/MSOS/MH-2-34	“	“	“	PCOSS08
Ex. #CAC/MSOS/MH-2-35	“	“	“	Load Research data
Ex. #CAC/MSOS/MH-2-36	“	“	“	Rate design
Ex. #CAC/MSOS/MH-2-37	“	“	“	DSM
Ex. #CAC/MSOS/MH-2-38	“	“	“	Obligation to purchase from MISO where supply shortage in Manitoba
Ex. #CAC/MSOS/MH-2-39	“	“	“	Amount of electricity transacted annually through the Minnesota Hub
Ex. #CAC/MSOS/MH-2-40	“	“	“	Costs in the US associated with the provision of additional import capability to Canada
Ex. #CAC/MSOS/MH-2-41	“	“	“	Vintage export price forecasts
Ex. #CAC/MSOS/MH-2-42	“	“	“	Listed service charges that do not require PUB approval

Ex. #CAC/MSOS/MH-2-43	“	“	“	Residential service charges
Ex. #CAC/MSOS/MH-2-44	“	“	“	Actual EFTs for 2008/09
Ex. #CAC/MSOS/MH-2-45	“	“	“	Exports/imports
Ex. #CAC/MSOS/MH-2-46	“	“	“	Impact of accounting changes
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Ex. #CAC/MSOS/MH-2-48	“	“	“	Financial results
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Ex. #CAC/MSOS/MH-2-54	“	“	“	Cost of Service Study
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Ex. #CAC/MSOS/MH-2-58	“	“	“	Financial Outlook- no “allowance” for capitalized OM&A after 2011//12
Ex. #CAC/MSOS/MH-2-59	“	“	“	Financial Outlook- average annual wind production
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Ex. #CAC/MSOS/MH-2-62	“	“	“	DSM- Revenue Gain calculation
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Ex. #CAC/MSOS/MH-2-64	“	“	“	DSM- infrastructure costs
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Ex. #CAC/MSOS/MH-2-95	“	“	“	Corporate strategic plan
Ex. #CAC/MSOS/MH-2-96	“	“	“	OM&A per customer and IFRS
Ex. #CAC/MSOS/MH-2-97	“	“	“	Term “economic downturn” contained in the Economic Outlook
Ex. #CAC/MSOS/MH-2-98	“	“	“	Risk associated with domestic requirements for electricity and risk associated with prices received for power in the export market.
Ex. #CAC/MSOS/MH-2-99	“	“	“	Reduction in electricity available for export due to the increase in domestic demand would likely be offset by higher fuel prices
Ex. #CAC/MSOS/MH-2-100	“	“	“	ICF report
Ex. #CAC/MSOS/MH-2-101	“	“	“	Copy of all of the analysis conducted of each internal or external study,
Ex. #CAC/MSOS/MH-2-102	“	“	“	Changes to revenue amounts
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Ex. #CAC/MSOS/MH-2-104	“	“	“	Integrated financial forecasters
Ex. #CAC/MSOS/MH-2-105	“	“	“	How the 75:25 debt equity translates into benefits to MH domestic customers
Ex. #CAC/MSOS/MH-2-106	“	“	“	Debt/equity up to 95:15
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Ex. #CAC/MSOS/MH-2-109	“	“	“	What factors and metrics are demonstrating the need for the rate increase
Ex. #CAC/MSOS/MH-2-110	“	“	“	MH's ability to absorb the financial impacts of adverse events
Ex. #CAC/MSOS/MH-2-111	“	“	“	Risk- calculations together with a complete list of assumptions
Ex. #CAC/MSOS/MH-2-112	“	“	“	Approach to identify opportunities, goals and strategies, benefits or the stakeholders
Ex. #CAC/MSOS/MH-2-113	“	“	“	Hydro's key financial ratios
Ex. #CAC/MSOS/MH-2-114	“	“	“	Net Export Revenue as a % of Total Revenue
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Ex. #CAC/MSOS/MH-2-116	“	“	“	Actual results 2009/10 in the format of the IFF
Ex. #CAC/MSOS/MH-2-117	“	“	“	Emera analysis
Ex. #CAC/MSOS/MH-2-118	“	“	“	2004-2008 Manitoba Hydro values
Ex. #CAC/MSOS/MH-2-119	“	“	“	Short term notes and floating rate debt
Ex. #CAC/MSOS/MH-2-120	“	“	“	Financial statements of Saskpower
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Ex. #CAC/MSOS/MH-2-122	“	“	“	Coalition/MH II-77(d)
Ex. #CAC/MSOS/MH-2-123	“	“	“	Optimal mix of fixed and floating rate debt
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Ex. #CAC/MSOS/MH-2-130	“	“	“	Term versus maturity values
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Ex. #CAC/MSOS/MH-2-138	“	“	“	Floating rate portfolio captures 93.4% of the theoretical return available to shareholders
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Ex. #CAC/MSOS/MH-2-158	“	“	“	Detailed calculation of each of the 0.22%, 0.87%, 3.75% and 4.08% rates
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Ex. #CAC/MSOS/MH/RISK-3-106	“	“	“
Ex. #CAC/MSOS/MH/RISK-3-107	“	“	“
Ex. #CAC/MSOS/MH/RISK-3-108	“	“	“
Ex. #CAC/MSOS/MH/RISK-3-109	“	“	“
Ex. #CAC/MSOS/MH/RISK-3-110	“	“	“
Ex. #CAC/MSOS/MH/RISK-3-111	“	“	“
Ex. #CAC/MSOS/MH/RISK-3-112	“	“	“
Ex. #CAC/MSOS/MH/RISK-3-113	“	“	“
Ex. #CAC/MSOS/MH/RISK-3-114	“	“	“
Ex. #CAC/MSOS/MH/RISK-3-115	“	“	“
Ex. #CAC/MSOS/MH/RISK-3-116	“	“	“
Ex. #CAC/MSOS/MH/RISK-3-117	“	“	“
Ex. #CAC/MSOS/MH/RISK-3-118	“	“	“
Ex. #CAC/MSOS/MH/RISK-3-119	“	“	“
Ex. #CAC/MSOS/MH/RISK-3-120	“	“	“
Ex. #CAC/MSOS/MH/RISK-3-121	“	“	“
Ex. #CAC/MSOS/MH/RISK-3-122	“	“	“
Ex. #CAC/MSOS/MH/RISK-3-123	“	“	“

Ex. #CAC/MSOS/KM-4-1

Consumers' Association of Canada  
(Manitoba) Inc. and Manitoba

July 5, 2011

Society of Seniors' information  
requests and the Independent  
Witnesses' responses

Ex. #CAC/MSOS/KM-4-2	“	“	“
Ex. #CAC/MSOS/KM-4-3	“	“	“
Ex. #CAC/MSOS/KM/-3-4	“	“	“
Ex. #CAC/MSOS/KM-4-5	“	“	“
Ex. #CAC/MSOS/KM-4-6	“	“	“
Ex. #CAC/MSOS/KM-4-7	“	“	“
Ex. #CAC/MSOS/KM-4-8	“	“	“
Ex. #CAC/MSOS/KM-4-9	“	“	“
Ex. #CAC/MSOS/KM-4-10	“	“	“
Ex. #CAC/MSOS/KM-4-11	“	“	“
Ex. #CAC/MSOS/KM-4-12	“	“	“
Ex. #CAC/MSOS/KM-4-13	“	“	“
Ex. #CAC/MSOS/KM-4-14	“	“	“
Ex. #CAC/MSOS/KM-4-15	“	“	“
Ex. #CAC/MSOS/KM-4-16	“	“	“
Ex. #CAC/MSOS/KM-4-17	“	“	“
Ex. #CAC/MSOS/KM-4-18	“	“	“
Ex. #CAC/MSOS/KM-4-19	“	“	“
Ex. #CAC/MSOS/KM-4-20	“	“	“
Ex. #CAC/MSOS/KM-4-21	“	“	“
Ex. #CAC/MSOS/KM-4-22	“	“	“
Ex. #CAC/MSOS/KM-4-23	“	“	“

Ex. #CAC/MSOS/KM-4-24	“	“	“
Ex. #CAC/MSOS/KM-4-25	“	“	“
Ex. #CAC/MSOS/KM-4-26	“	“	“
Ex. #CAC/MSOS/KM-4-27	“	“	“
Ex. #CAC/MSOS/KM-4-28	“	“	“
Ex. #CAC/MSOS/KM-4-29	“	“	“
Ex. #CAC/MSOS/KM-4-30	“	“	“
Ex. #CAC/MSOS/KM-4-31	“	“	“
Ex. #CAC/MSOS/KM-4-32	“	“	“
Ex. #CAC/MSOS/KM-4-33	“	“	“
Ex. #CAC/MSOS/KM-4-34	“	“	“
Ex. #CAC/MSOS/KM-4-35	“	“	“
Ex. #CAC/MSOS/KM-4-36	“	“	“
Ex. #CAC/MSOS/KM-4-37	“	“	“
Ex. #CAC/MSOS/KM-4-38	“	“	“
Ex. #CAC/MSOS/KM-4-39	“	“	“
Ex. #CAC/MSOS/KM-4-40	“	“	“
Ex. #CAC/MSOS/KM-4-41	“	“	“
Ex. #CAC/MSOS/KM-4-42	“	“	“
Ex. #CAC/MSOS/KM-4-43	“	“	“
Ex. #CAC/MSOS/KM-4-44	“	“	“
Ex. #CAC/MSOS/KM-4-45	“	“	“
Ex. #CAC/MSOS-5	Evidence of John McCormick		
Ex. #CAC/MSOS-6	Evidence of Greg Matwichuk		

Ex. #CAC/MSOS-7	Evidence of Professor Tom Carter
Ex. #CAC/MSOS/RCM/TREE (Colton)-8-1	CAC/MSOS Information Requests of RCM/TREE's Evidence of Roger Colton and Responses
Ex. #CAC/MSOS/RCM/TREE (Colton)-8-2	“ “ “
Ex. #CAC/MSOS/RCM/TREE (Colton)-8-3	“ “ “
Ex. #CAC/MSOS/RCM/TREE (Colton)-8-4	“ “ “
Ex. #CAC/MSOS/RCM/TREE (Colton)-8-5	“ “ “
Ex. #CAC/MSOS/RCM/TREE (Colton)-8-6	“ “ “
Ex. #CAC/MSOS/RCM/TREE (Colton)-8-7	“ “ “
Ex. #CAC/MSOS/RCM/TREE (Colton)-8-8	“ “ “
Ex. #CAC/MSOS/RCM/TREE (Colton)-8-8	“ “ “
Ex. #CAC/MSOS/RCM/TREE (Colton)-8-9	“ “ “
Ex. #CAC/MSOS/RCM/TREE (Colton)-8-10	“ “ “
Ex. #CAC/MSOS/RCM/TREE (Colton)-8-11	“ “ “
Ex. #CAC/MSOS/RCM/TREE (Colton)-8-12	“ “ “
Ex. #CAC/MSOS/RCM/TREE (Chernick)-8-13	CAC/MSOS Information Requests of RCM/TREE's Evidence of Paul Chernick and Responses
Ex. #CAC/MSOS/RCM/TREE (Chernick)-8-14	“ “ “

Ex. #CAC/MSOS/RCM/TREE (Chernick)-8-15	“	“	“
Ex. #CAC/MSOS/RCM/TREE (Chernick)-8-16	“	“	“
Ex. #CAC/MSOS/RCM/TREE (Chernick)-8-17	“	“	“
Ex. #CAC/MSOS/RCM/TREE (Chernick)-8-18	“	“	“
Ex. #CAC/MSOS/RCM/TREE (Chernick)-8-19	“	“	“
Ex. #CAC/MSOS/RCM/TREE (Chernick)-8-20	“	“	“
Ex. #CAC/MSOS/RCM/TREE (Wallach)-8-21	CAC/MSOS Information Requests of RCM/TREE’s Evidence of Jonathon Wallach and Responses		
Ex. #CAC/MSOS/RCM/TREE (Wallach)-8-22	“	“	“
Ex. #CAC/MSOS/RCM/TREE (Wallach)-8-23	“	“	“
Ex. #CAC/MSOS/RCM/TREE (Wallach)-8-24	“	“	“
Ex. #CAC/MSOS/RCM/TREE (Wallach)-8-25	“	“	“
Ex. #CAC/MSOS/RCM/TREE (Wallach)-8-26	“	“	“
Ex. #CAC/MSOS/RCM/TREE (Wallach)-8-27	“	“	“
Ex. #CAC/MSOS/MIPUG-9-1	CAC/MSOS Information Requests of MIPUG’s Evidence and Responses		
Ex. #CAC/MSOS/MIPUG-9-2	“	“	“
Ex. #CAC/MSOS/MIPUG-9-3	“	“	“

Ex. #CAC/MSOS/MIPUG-9-4	“	“	“
Ex. #CAC/MSOS/MIPUG-9-5	“	“	“
Ex. #CAC/MSOS/MIPUG-9-6	“	“	“
Ex. #CAC/MSOS/MIPUG-9-7	“	“	“
Ex. #CAC/MSOS/MIPUG-9-8	“	“	“
Ex. #CAC/MSOS/MIPUG-9-9	“	“	“
Ex. #CAC/MSOS/MIPUG-9-10	“	“	“
Ex. #CAC/MSOS/MIPUG-9-11	“	“	“
Ex. #CAC/MSOS/MIPUG-9-12	“	“	“
Ex. #CAC/MSOS/MIPUG-9-13	“	“	“
Ex. #CAC/MSOS/MIPUG-9-14	“	“	“
Ex. #CAC/MSOS/MIPUG-9-15	“	“	“
Ex. #CAC/MSOS-10	ICF - J. Rose – “Financing for the Future”		October 2009 Bonbright Conference
Ex. #CAC/MSOS-11	Manitoba Hydro Risks - Report of Kubursi and Magee		Pages 162, 188, 189 and 190
Ex. #CAC/MSOS-12	US Supreme Court Decision Nos. 06-1457, 06-1462		Morgan Stanley vs Public Utility District No. 1 Snohomish County , Washington
Ex. #CAC/MSOS-13	Submission on Interim Rate Increase of 2.9%		March 9, 2011
Ex. #CAC/MSOS-14	Book of Exhibits		13 exhibits introduced by CAC/MSOS
Ex. #CAC/MSOS-15	Book of Documents		March 23, 2011
Ex. #CAC/MSOS-16	Book of Documents		April 5, 2011
Ex. #CAC/MSOS-17	News Releases, Manitoba Hydro		March 31, 2011
Ex. #CAC/MSOS-18	Bipole III, Capital Cost Estimates		Table/Cost comparison

Ex. #CAC/MSOS-19	Long Term Economic Forecasts	T.D. Economics March 16, 2011
Ex. #CAC/MSOS-20	Bloomberg Manitoba Series F302 Qtly 12/15/2002 to 3/15/2011	Graphs and tables
Ex. #CAC/MSOS-21	Government of Canada Bonds	Average yields – over 10 yrs and 1 to 3 year
Ex. #CAC/MSOS-22	CAC/MSOS Book of Documents	April 6, 2011
Ex. #CAC/MSOS-23	Electric Domestic Revenues	Net Present Values of Revenues
Ex. #CAC/MSOS-24	History of Water Rentals	2001-2010 \$M
Ex. #CAC/MSOS-25	Book of Documents Kubursi/Magee cross	59 pages
Ex. #CAC/MSOS-26	Book of Documents Kubursi/Magee cross	48 pages (yellow cover)
Ex. #CAC/MSOS-27	Exchange rate (CDA \$ cost in USD)	2001-2011
Ex. #CAC/MSOS-28	Book of Documents – June 1, 2011	Cross examination of Mr. Colton
Ex. #CAC/MSOS-28(a)	Water Flows and MH Generation, 1912-2005	May 31, 2011
Ex. #CAC/MSOS-29	Direct Evidence of G. Matwichuk	CAC/MSOS – June 7, 2011
Ex. #CAC/MSOS-30	Evidence and Information Request errata	CAC/MSOS – J. McCormick
Ex. #CAC/MSOS-31	Presentation of J. D. McCormick	Evidence
Ex. #CAC/MSOS-32	Professor Carter Evidence Updates	June 8, 2011
Ex. #CAC/MSOS-33	Affidavit of Catherine Mary Wirt	June 7, 2011
Ex. #CAC/MSOS-34	Resume of CAC/MSOS witness	Professor Tom Carter
Ex. #CAC/MSOS-35	Annual Report of the Department of Family Services and Consumer Affairs	September 2010
Ex. #CAC/MSOS-36	Additional material from the record	July 4, 2011
Ex. #CAC/MSOS-37	Written Outline of Argument	July 4, 2011

Ex. #CAC/MSOS-38

Final Recommendations

July 4, 2011

July 5, 2011



## **MANITOBA INDUSTRIAL POWER USERS' GROUP'S EXHIBITS**

Ex. #MIPUG/MH-1-1	Manitoba Industrial Power Users Group 1 <sup>st</sup> round information requests and Manitoba Hydro's responses			Letter of Application and Summary of Application
Ex. #MIPUG/MH-1-2	"	"	"	Thermal generation resources
Ex. #MIPUG/MH-1-3	"	"	"	Financial targets
Ex. #MIPUG/MH-1-4	"	"	"	Financial Results and Forecasts: General Consumer Revenues
Ex. #MIPUG/MH-1-5	"	"	"	Financial Results and Forecasts: Extra Provincial Revenues
Ex. #MIPUG/MH-1-6	"	"	"	Financial Results and Forecasts: Operating, Maintenance and Administrative
Ex. #MIPUG/MH-1-7	"	"	"	Financial Results and Forecasts: Depreciation and Amortization
Ex. #MIPUG/MH-1-8	"	"	"	Financial Results and Forecasts: Water Rentals and Assessments
Ex. #MIPUG/MH-1-9	"	"	"	Financial Results and Forecasts: Capital and Other Taxes
Ex. #MIPUG/MH-1-10	"	"	"	IFF-09-1
Ex. #MIPUG/MH-1-11	"	"	"	Load forecast
Ex. #MIPUG/MH-1-12	"	"	"	Energy supply
Ex. #MIPUG/MH-1-13	"	"	"	Exposure management
Ex. #MIPUG/MH-1-14	"	"	"	Major projects
Ex. #MIPUG/MH-1-15	"	"	"	System Capacity and Energy Resources and DSM
Ex. #MIPUG/MH-1-16	"	"	"	Sinking funds
Ex. #MIPUG/MH-1-17	"	"	"	Corporate risk management

Ex. #MIPUG/MH-1-18	“	“	“	Time of Use
Ex. #MIPUG/MH-1-19	“	“	“	Rate objectives
Ex. #MIPUG/MH-1-20	“	“	“	Proof of Revenue
Ex. #MIPUG/MH-1-21	“	“	“	Demand billing concessions
Ex. #MIPUG/MH-1-22	“	“	“	PCOSS 10 - overview
Ex. #MIPUG/MH-1-23	“	“	“	PCOSS allocation ratios
Ex. #MIPUG/MH-1-24	“	“	“	Provincial government charges
Ex. #MIPUG/MH-1-25	“	“	“	Demand side management
Ex. #MIPUG/MH-2-1	Manitoba Industrial Power Users Group 2 <sup>nd</sup> round information requests and Manitoba Hydro's responses			Construction in Progress Balances
Ex. #MIPUG/MH-2-2	“	“	“	Major projects
Ex. #MIPUG/MH-2-3	“	“	“	DSM savings
Ex. #MIPUG/MH-2-4	“	“	“	Terms of Reference for the external contract to review the cost of service methodology
Ex. #MIPUG/MH-2-5	“	“	“	Electric operations and gas operations
Ex. #MIPUG/MH-2-6	“	“	“	Sinking funds
Ex. #MIPUG/MH-2-7	“	“	“	EIIR revenues
Ex. #MIPUG/MH-2-8	“	“	“	DSM amortization rates
Ex. #MIPUG/MH-2-9	“	“	“	Marginal costs
Ex. #MIPUG/MH-2-10	“	“	“	2009/10 power resource plan
Ex. #MIPUG/MH-2-11	“	“	“	Copy of IFF09-1
Ex. #MIPUG/MH-2-12	“	“	“	Demand billing concessions
Ex. #MIPUG/MH/RISK-3-1	Manitoba Industrial Power Users			

	Group risk round information requests and Manitoba Hydro's responses			
Ex. #MIPUG/MH/RISK-3-2		“	“	“
Ex. #MIPUG/MH/RISK-3-3		“	“	“
Ex. #MIPUG/MH/RISK-3-4		“	“	“
Ex. #MIPUG/MH/RISK-3-5		“	“	“
Ex. #MIPUG/MH/RISK-3-6		“	“	“
Ex. #MIPUG/KM-4-1	MIPUG's Information Requests of Independent Witnesses' and Responses			
Ex. #MIPUG/KM-4-2		“	“	“
Ex. #MIPUG/KM-4-3		“	“	“
Ex. #MIPUG/KM-4-4		“	“	“
Ex. #MIPUG/KM-4-5		“	“	“
Ex. #MIPUG/KM-4-6		“	“	“
Ex. #MIPUG-5	Pre-filed Testimony of Mr. P. Bowman and Mr. A. McLaren			
Ex. #MIPUG/RCM/TREE (Chernick)-6-1	MIPUG's Information Requests of RCM/TREE's Witness Paul Chernick and Responses			
Ex. #MIPUG/RCM/TREE (Chernick)-6-2		“	“	“
Ex. #MIPUG/RCM/TREE (Chernick)-6-3		“	“	“
Ex. #MIPUG/RCM/TREE (Chernick)-6-4		“	“	“
Ex. #MIPUG/RCM/TREE (Chernick) 6-5		“	“	“

Ex. #MIPUG/RCM/TREE (Wallach)-6-6	MIPUG's Information Requests of RCM/TREE's Witness Jonathon Wallach and Responses	
Ex. #MIPUG/RCM/TREE (Wallach)-6-7	“	“
Ex. #MIPUG/RCM/TREE (Wallach)-6-8	“	“
Ex. #MIPUG/RCM/TREE (Wallach)-6-9	“	“
Ex. #MIPUG/RCM/TREE (Wallach)-6-10	“	“
Ex. #MIPUG/RCM/TREE (Wallach)-6-11	“	“
Ex. #MIPUG/RCM/TREE (Wallach)-6-12	“	“
Ex. #MIPUG/CAC/MSOS (Matwichuk)-7-1	MIPUG's Information Requests of CAC/MSOS' witness Greg Matwichuk and Responses	
Ex. #MIPUG/CAC/MSOS (Matwichuk)-7-2	“	“
Ex. #MIPUG/CAC/MSOS (Matwichuk)-7-3	“	“
Ex. #MIPUG-8	PUB Order No. 32/09 - March 30, 2009 (Manitoba Hydro)	Pages 21-28 and 47-48
Ex. #MIPUG-9	Manitoba Hydro Corporate Risk Management Report	October 2010
Ex. #MIPUG-10	Manitoba Hydro Act – R.S.M. 1987, cH190	Sec 39(1) – 39(2)
Ex. #MIPUG-11	Submission on Interim Rate Increase of 2.9%	March 9, 2011
Ex. #MIPUG-12	MIPUG Book of Documents Note: MIPUG Counsel handed out “Tab 75” to their Book of Documents – not given an Exhibit # but are to follow	April 7, 2011 May 26, 2011

chronologically, i.e. pages 311, 312,  
313 in their BOD

Ex. #MIPUG-13

MIPUG's position on Questions to  
Independent Experts

Letter dated May 26, 2011

Ex. #MIPUG-14

Overview of Bowman/McLaren  
Evidence

June 3/11 – Direct Evidence

**MANITOBA KEEWATINOWI OKIMAKANAK INC./NATURAL RESOURCES SECRETARIAT'S  
EXHIBITS**

**RESOURCE CONSERVATION MANITOBA/TIME TO RESPECT EARTH'S ECOSYSTEMS'**  
**EXHIBITS**

Ex. #RCM/TREE/MH-1-1	Resource Conservation Manitoba and Time to Respect Earth's Ecosystems' 1 <sup>st</sup> round information requests and Manitoba Hydro responses.			Tabs in PDF-readable form
Ex. #RCM/TREE/MH-1-2	“	“	“	Cost of Service Study
Ex. #RCM/TREE/MH-1-3	“	“	“	Prospective Cost of Service Study for Fiscal Year Ending March 31, 2010
Ex. #RCM/TREE/MH-1-4	“	“	“	Cost Allocation to Export Class
Ex. #RCM/TREE/MH-1-5	“	“	“	Load research
Ex. #RCM/TREE/MH-1-6	“	“	“	Load information
Ex. #RCM/TREE/MH-1-7	“	“	“	Rebalancing Energy and Demand Charges
Ex. #RCM/TREE/MH-1-8	“	“	“	Proposed rate structure- bill comparisons
Ex. #RCM/TREE/MH-1-9	“	“	“	Proposed Rate Structure- Proof of Revenue
Ex. #RCM/TREE/MH-1-10	“	“	“	Demand-side management
Ex. #RCM/TREE/MH-1-11	“	“	“	ICF risk report- power resource plan
Ex. #RCM/TREE/MH-1-12	“	“	“	ICF Risk Report- term sheets
Ex. #RCM/TREE/MH-1-13	“	“	“	ICF Risk Report- high priority
Ex. #RCM/TREE/MH-1-14	“	“	“	ICF Risk Report- winter reserve margin
Ex. #RCM/TREE/MH-1-15	“	“	“	ICF Risk Report -Dunskey's review of Manitoba Hydro's Power Smart Program
Ex. #RCM/TREE/MH-1-16	“	“	“	ICF risk report integrated financial forecast”, November, 2008

Ex. #RCM/TREE/MH-1-17	“	“	“	ICF Risk Report need for more capacity
Ex. #RCM/TREE/MH-1-18	“	“	“	ICF Risk Report annual revenues from domestic load and from exports for years beyond 2008/2009
Ex. #RCM/TREE/MH-1-19	“	“	“	ICF Risk Report obligation to purchase energy.
Ex. #RCM/TREE/MH-1-20	“	“	“	ICF Risk Report export trade agreements
Ex. #RCM/TREE/MH-1-21	“	“	“	ICF Risk Report documents regarding the three proposed contracts
Ex. #RCM/TREE/MH-1-22	“	“	“	ICF Risk Report Master or Interchange Agreement for bilateral transactions
Ex. #RCM/TREE/MH-1-23	“	“	“	ICF Risk Report planned additions
Ex. #RCM/TREE/MH-1-24	“	“	“	ICF Risk Report corporate risk management report,
Ex. #RCM/TREE/MH-1-25	“	“	“	ICF Risk Report shortage pricing in its spot purchases during the 2003-04 drought
Ex. #RCM/TREE/MH-1-26	“	“	“	ICF Risk Report MISO transmission studies
Ex. #RCM/TREE/MH-1-27	“	“	“	ICF Risk Report Summary of LT contract
Ex. #RCM/TREE/MH-1-28	“	“	“	ICF Risk Report new facilities brought on-line
Ex. #RCM/TREE/MH-1-29	“	“	“	ICF Risk Report firm on-peak export sales
Ex. #RCM/TREE/MH-1-30	“	“	“	ICF risk report management control plan
Ex. #RCM/TREE/MH-1-31	“	“	“	ICF Risk Report, dated March 31, 2008



Ex. #RCM/TREE/MH-1-32	“	“	“	ICF risk report 2002-2004 drought risk management review
Ex. #RCM/TREE/MH-1-33	“	“	“	ICF risk report pub order 117/06
Ex. #RCM/TREE/MH-1-34	“	“	“	ICF Risk Report documents reviewed by ICF Base Case
Ex. #RCM/TREE/MH-1-35	“	“	“	ICF Risk Report documents reviewed by ICF sensitivity cases
Ex. #RCM/TREE/MH-1-36	“	“	“	ICF Risk Report impact of global warming
Ex. #RCM/TREE/MH-1-37	“	“	“	ICF Risk Report financial performance of the company under a range of scenarios
Ex. #RCM/TREE/MH-1-38	“	“	“	ICF risk report risk analysis using prism
Ex. #RCM/TREE/MH-1-39	“	“	“	ICF Risk Report execution risk
Ex. #RCM/TREE/MH-1-40	“	“	“	Aging of residential arrears
Ex. #RCM/TREE/MH-1-41	“	“	“	Collection process
Ex. #RCM/TREE/MH-1-42	“	“	“	Collection process
Ex. #RCM/TREE/MH-1-43	“	“	“	Residential late fee revenue
Ex. #RCM/TREE/MH-1-44	“	“	“	Late charge
Ex. #RCM/TREE/MH-1-45	“	“	“	Cost justification late fee payment
Ex. #RCM/TREE/MH-1-46	“	“	“	Residential electric service charges not covered by an energy charge
Ex. #RCM/TREE/MH-1-47	“	“	“	Cost-justification for the fee
Ex. #RCM/TREE/MH-1-48	“	“	“	Arrears
Ex. #RCM/TREE/MH-1-49	“	“	“	Arrears by the size of arrears by bands
Ex. #RCM/TREE/MH-1-50	“	“	“	Number of residential accounts

Ex. #RCM/TREE/MH-1-51	“	“	“	Expenses for residential collection activities
Ex. #RCM/TREE/MH-1-52	“	“	“	Collection expenses
Ex. #RCM/TREE/MH-1-53	“	“	“	Collection activities
Ex. #RCM/TREE/MH-1-54	“	“	“	Late payment charge- residential
Ex. #RCM/TREE/MH-1-55	“	“	“	Late payment charge- low income
Ex. #RCM/TREE/MH-1-56	“	“	“	Levelized monthly Budget Billing plan
Ex. #RCM/TREE/MH-1-57	“	“	“	Levelized monthly Budget Billing plan
Ex. #RCM/TREE/MH-1-58	“	“	“	Security deposits
Ex. #RCM/TREE/MH-1-59	“	“	“	Credit and collection activities
Ex. #RCM/TREE/MH-1-60	“	“	“	Credit and collection activities
Ex. #RCM/TREE/MH-1-61	“	“	“	Organizational structure which provide all credit and collection services
Ex. #RCM/TREE/MH-1-62	“	“	“	Budgeted collection costs
Ex. #RCM/TREE/MH-1-63	“	“	“	Actual collection costs
Ex. #RCM/TREE/MH-1-64	“	“	“	Residential accounts
Ex. #RCM/TREE/MH-1-65	“	“	“	Residential customers
Ex. #RCM/TREE/MH-1-66	“	“	“	Residential bad debt
Ex. #RCM/TREE/MH-1-67	“	“	“	Residential arrears
Ex. #RCM/TREE/MH-1-68	“	“	“	Long- and/or short-term price elasticities
Ex. #RCM/TREE/MH-1-69	“	“	“	Document of any nature-residential collections
Ex. #RCM/TREE/MH-1-70	“	“	“	Collection documents not filed with PUB

Ex. #RCM/TREE/MH-1-71	“	“	“	Collection documents not filed with PUB
Ex. #RCM/TREE/MH-1-72	“	“	“	Documents re: collection procedures
Ex. #RCM/TREE/MH-1-73	“	“	“	Disconnect service due to the arrearage
Ex. #RCM/TREE/MH-1-74	“	“	“	Disconnect service due to the arrearage
Ex. #RCM/TREE/MH-1-75	“	“	“	Residential collections
Ex. #RCM/TREE/MH-1-76	“	“	“	Residential tariff sheets
Ex. #RCM/TREE/MH-1-77	“	“	“	Residential revenue by year
Ex. #RCM/TREE/MH-1-78	“	“	“	List of payment options
Ex. #RCM/TREE/MH-1-79	“	“	“	Payment options metrics
Ex. #RCM/TREE/MH-1-80	“	“	“	List of each incorporated community served
Ex. #RCM/TREE/MH-1-81	“	“	“	Month-by-month load curve
Ex. #RCM/TREE/MH-1-82	“	“	“	Differences in the load curve for residential customers
Ex. #RCM/TREE/MH-1-83	“	“	“	Electricity usage of residential customers
Ex. #RCM/TREE/MH-1-84	“	“	“	Sample monthly billing calculation
Ex. #RCM/TREE/MH-1-85	“	“	“	Sales (kwh) from each customer class
Ex. #RCM/TREE/MH-1-86	“	“	“	Revenue from each customer class
Ex. #RCM/TREE/MH-1-87	“	“	“	Term “sustainable bill relief”
Ex. #RCM/TREE/MH-1-88	“	“	“	“Sustainable bill relief” is temporary relief?
Ex. #RCM/TREE/MH-1-89	“	“	“	Initial Bill Assistance report dated February 2009

Ex. #RCM/TREE/MH-1-90	“	“	“	List of key considerations
Ex. #RCM/TREE/MH-1-91	“	“	“	Balance between improving the affordability of energy for lower income customers and maintaining social equity for the general body of rate payers
Ex. #RCM/TREE/MH-1-92	“	“	“	Term “social equity”
Ex. #RCM/TREE/MH-1-93	“	“	“	Term “efficient energy affordability”
Ex. #RCM/TREE/MH-1-94	“	“	“	Distinguish between “facilitating efficient energy affordability” and “achieving efficient energy affordability?”
Ex. #RCM/TREE/MH-1-95	“	“	“	Populations of lower income customers for whom it is not possible to achieve “efficient energy affordability”
Ex. #RCM/TREE/MH-1-96	“	“	“	Internal procedures manuals for Company call center personnel
Ex. #RCM/TREE/MH-1-97	“	“	“	Internal procedures manuals for Company field office personnel
Ex. #RCM/TREE/MH-1-98	“	“	“	Staff training manuals for Company call center personnel
Ex. #RCM/TREE/MH-1-99	“	“	“	Staff training manuals for Company field office personnel
Ex. #RCM/TREE/MH-1-100	“	“	“	Procedures manuals Neighbors Helping Neighbors
Ex. #RCM/TREE/MH-1-101	“	“	“	Staff training manuals-Neighbors Helping Neighbors.
Ex. #RCM/TREE/MH-1-102	“	“	“	Procedures manuals
Ex. #RCM/TREE/MH-1-103	“	“	“	Staff training manuals
Ex. #RCM/TREE/MH-1-104	“	“	“	Calculations generated in the review of the energy burden of Manitoba

				Hydro's lower income customers
Ex. #RCM/TREE/MH-1-105	“	“	“	Crisis level
Ex. #RCM/TREE/MH-1-106	“	“	“	The energy burden- based on single
Ex. #RCM/TREE/MH-1-107	“	“	“	Study determined that the energy burden is not at a crisis level” done by an external consultant or in-house
Ex. #RCM/TREE/MH-1-108	“	“	“	Burden is not at a crisis level
Ex. #RCM/TREE/MH-1-109	“	“	“	Number of Manitoba Hydro lower income customers
Ex. #RCM/TREE/MH-1-110	“	“	“	Feedback from Manitoba stakeholders
Ex. #RCM/TREE/MH-1-111	“	“	“	Assistance provided to those most in need and who genuinely cannot pay their bill
Ex. #RCM/TREE/MH-1-112	“	“	“	Key learnings from other programs
Ex. #RCM/TREE/MH-1-113	“	“	“	Key learnings from other programs
Ex. #RCM/TREE/MH-1-114	“	“	“	Key learnings from other programs
Ex. #RCM/TREE/MH-1-115	“	“	“	Key learnings from other programs
Ex. #RCM/TREE/MH-1-116	“	“	“	Key learnings from other programs
Ex. #RCM/TREE/MH-1-117	“	“	“	Key learnings from other programs
Ex. #RCM/TREE/MH-1-118	“	“	“	Key learnings from other programs
Ex. #RCM/TREE/MH-1-119	“	“	“	Most common challenge facing bill assistance programs is lack of program awareness amongst the target audience
Ex. #RCM/TREE/MH-1-120	“	“	“	Most common challenge facing bill assistance programs is lack of program awareness amongst the target audience

Ex. #RCM/TREE/MH-1-121	“	“	“	State of energy financial hardship and display a genuine difficulty in paying their utility bills
Ex. #RCM/TREE/MH-1-122	“	“	“	State of energy financial hardship and display a genuine difficulty in paying their utility bills
Ex. #RCM/TREE/MH-1-123	“	“	“	State of energy financial hardship and display a genuine difficulty in paying their utility bills
Ex. #RCM/TREE/MH-1-124	“	“	“	Demand side management through energy efficiency measures and customer education
Ex. #RCM/TREE/MH-1-125	“	“	“	Documents supplying industry feedback
Ex. #RCM/TREE/MH-1-126	“	“	“	Incorporate demand side management, emergency financial assistance and bill management into one holistic approach
Ex. #RCM/TREE/MH-1-127	“	“	“	Bibliography of the other bill assistance reports and consultation papers
Ex. #RCM/TREE/MH-1-128	“	“	“	Alternative payment methods and payment locations
Ex. #RCM/TREE/MH-1-129	“	“	“	Bill messaging, alternative payment methods, and payment locations
Ex. #RCM/TREE/MH-1-130	“	“	“	Compelling situations
Ex. #RCM/TREE/MH-1-131	“	“	“	Vulnerable client includes socially disadvantaged persons
Ex. #RCM/TREE/MH-1-132	“	“	“	Metrics used to determine that a customer “requires more assistance than Manitoba Hydro can offer
Ex. #RCM/TREE/MH-1-133	“	“	“	NHN assists families who are unable to pay their energy bills due to personal hardship or crisis
Ex. #RCM/TREE/MH-1-134	“	“	“	NHN program was designed to

				target Manitoba Hydro customers who are considered lower income and who find themselves in an emergency situation
Ex. #RCM/TREE/MH-1-135	“	“	“	472 customers received NHN assistance-distribution
Ex. #RCM/TREE/MH-1-136	“	“	“	Salvation Army reports quarterly on the program’s overall performance
Ex. #RCM/TREE/MH-1-137	“	“	“	Salvation Army reports quarterly on the program’s overall performance
Ex. #RCM/TREE/MH-1-138	“	“	“	Neighbors Helping Neighbors spent 37.4% (\$81,250 of \$217,172) of total contributions on administrative costs
Ex. #RCM/TREE/MH-1-139	“	“	“	Neighbors Helping Neighbors-marketing costs
Ex. #RCM/TREE/MH-1-140	“	“	“	NHN grants
Ex. #RCM/TREE/MH-1-141	“	“	“	For each grant averaging \$254 each, the Company spent \$172 in administrative costs
Ex. #RCM/TREE/MH-1-142	“	“	“	Combined administrative and marketing costs
Ex. #RCM/TREE/MH-1-143	“	“	“	Administration costs
Ex. #RCM/TREE/MH-1-144	“	“	“	LIEEP applications
Ex. #RCM/TREE/MH-1-145	“	“	“	LIEEP “target market” of approximately 76,000 households
Ex. #RCM/TREE/MH-1-146	“	“	“	Raw data used in the review of energy burdens
Ex. #RCM/TREE/MH-1-147	“	“	“	Distribution of the number of customers by ranges of LICO
Ex. #RCM/TREE/MH-1-148	“	“	“	LICO average income and median income
Ex. #RCM/TREE/MH-1-149	“	“	“	Calculation of energy cost” of

				\$1,633 for electricity heating customers
Ex. #RCM/TREE/MH-1-150	“	“	“	Calculation of energy cost” of \$1,633 for natural gas heating customers
Ex. #RCM/TREE/MH-1-151	“	“	“	Median income for LICO population
Ex. #RCM/TREE/MH-1-152	“	“	“	Distribution of the number of customers in the LICO x 125% population by quintiles of income
Ex. #RCM/TREE/MH-1-153	“	“	“	Distribute the electric heating customers by energy costs in bands of \$250
Ex. #RCM/TREE/MH-1-154	“	“	“	The natural gas heating customers by energy costs in bands of \$250
Ex. #RCM/TREE/MH-1-155	“	“	“	\$900 average customer arrears for customers receiving NHN
Ex. #RCM/TREE/MH-1-156	“	“	“	NHN participation
Ex. #RCM/TREE/MH-1-157	“	“	“	Energy burdens based on an annual income of \$17,000
Ex. #RCM/TREE/MH-1-158	“	“	“	Energy burdens based on an annual income of \$24,000
Ex. #RCM/TREE/MH-1-159	“	“	“	Each utility offering a “rate discount” studied for the Report
Ex. #RCM/TREE/MH-1-160	“	“	“	Each utility offering a rate discount studied for report
Ex. #RCM/TREE/MH-1-161	“	“	“	Copy of each program evaluation of a rate discount
Ex. #RCM/TREE/MH-1-162	“	“	“	List of federal and/or provincial social assistance programs
Ex. #RCM/TREE/MH-1-163	“	“	“	Negative assets if the debt on mortgage is considered
Ex. #RCM/TREE/MH-1-164	“	“	“	Value of assets in determining



				income eligibility
Ex. #RCM/TREE/MH-1-165	“	“	“	Energy burden/ crisis level
Ex. #RCM/TREE/MH-1-166	“	“	“	Number of lower income customers
Ex. #RCM/TREE/MH-1-167	“	“	“	Current average arrears of an NHN recipient
Ex. #RCM/TREE/MH-1-168	“	“	“	Energy cost for electricity heating customers
Ex. #RCM/TREE/MH-1-169	“	“	“	Energy cost for natural gas heating customers
Ex. #RCM/TREE/MH-1-170	“	“	“	Utilities whose “Bill Assistance Programs” were researched
Ex. #RCM/TREE/MH-1-171	“	“	“	Research sources
Ex. #RCM/TREE/MH-2-1	Resource Conservation Manitoba and Time to Respect Earth’s Ecosystems’ 2 <sup>nd</sup> round information requests and Manitoba Hydro responses.			Marginal cost- energy intensive industrial rate
Ex. #RCM/TREE/MH-2-2	“	“	“	Marginal Cost –capital development
Ex. #RCM/TREE/MH-2-3	“	“	“	Marginal cost integrated financial forecast
Ex. #RCM/TREE/MH-2-4	“	“	“	Demand-side management 2007-2008 power smart annual review
Ex. #RCM/TREE/MH-2-5	“	“	“	Marginal Cost (MC)-COSS analysis required by the Board in Order 150/08.
Ex. #RCM/TREE/MH/RISK-3-1	Resource Conservation Manitoba and Time to Respect Earth’s Ecosystems’ risk round information requests and Manitoba Hydro responses.			
Ex. #RCM/TREE/MH/RISK-3-2	“	“	“	
Ex. #RCM/TREE/MH/RISK-3-3	“	“	“	

Ex. #RCM/TREE/MH/RISK-3-4	“	“	“
Ex. #RCM/TREE/MH/RISK-3-5	“	“	“
Ex. #RCM/TREE/MH/RISK-3-6	“	“	“
Ex. #RCM/TREE/MH/RISK-3-7	“	“	“
Ex. #RCM/TREE/MH/RISK-3-8	“	“	“
Ex. #RCM/TREE/MH/RISK-3-9	“	“	“
Ex. #RCM/TREE/MH/RISK-3-10	“	“	“
Ex. #RCM/TREE/MH/RISK-3-11	“	“	“
Ex. #RCM/TREE/MH/RISK-3-12	“	“	“
Ex. #RCM/TREE/MH/RISK-3-13	“	“	“
Ex. #RCM/TREE/MH/RISK-3-14	“	“	“
Ex. #RCM/TREE/MH/RISK-3-15	“	“	“
Ex. #RCM/TREE/MH/RISK-3-16	“	“	“
Ex. #RCM/TREE/MH/RISK-3-17	“	“	“
Ex. #RCM/TREE/MH/RISK-3-18	“	“	“
Ex. #RCM/TREE/MH/RISK-3-19	“	“	“
Ex. #RCM/TREE/MH/RISK-3-20	“	“	“
Ex. #RCM/TREE/MH/RISK-3-21	“	“	“
Ex. #RCM/TREE/MH/RISK-3-22	“	“	“
Ex. #RCM/TREE/KM-4-1	Resource Conservation Manitoba and Time to Respect Earth's Ecosystems' information requests and Independent Witnesses' responses.		
Ex. #RCM/TREE/KM-4-2	“	“	“

Ex. #RCM/TREE/KM-4-3	“	“	“
Ex. #RCM/TREE/KM-4-4	“	“	“
Ex. #RCM/TREE/KM-4-5	“	“	“
Ex. #RCM/TREE/KM-4-6	“	“	“
Ex. #RCM/TREE/KM-4-7	“	“	“
Ex. #RCM/TREE/KM-4-8	“	“	“
Ex. #RCM/TREE/KM-4-9	“	“	“
Ex. #RCM/TREE/KM-4-10	“	“	“
Ex. #RCM/TREE/KM-4-11	“	“	“
Ex. #RCM/TREE/KM-4-12	“	“	“
Ex. #RCM/TREE/KM-4-13	“	“	“
Ex. #RCM/TREE/KM-4-14	“	“	“
Ex. #RCM/TREE/KM-4-15	“	“	“
Ex. #RCM/TREE/KM-4-16	“	“	“
Ex. #RCM/TREE/KM-4-17	“	“	“
Ex. #RCM/TREE/KM-4-18	“	“	“
Ex. #RCM/TREE-5	Evidence of Roger Colton		
Ex. #RCM/TREE-6	Evidence of Paul Chernick		
Ex. #RCM/TREE-7	Evidence of Jonathon Wallach		
Ex. #RCM/TREE/CAC/MSOS (Carter)-8-1	RCM/TREE’s Information Requests of CAC/MSOS’ Evidence of Tom Carter and Responses		
Ex. #RCM/TREE/CAC/MSOS (Carter)-8-2	“	“	“
Ex. #RCM/TREE/CAC/MSOS (Carter)-8-3	“	“	“

Ex. #RCM/TREE/CAC/MSOS (Carter)-8-4	“	“	“
Ex. #RCM/TREE/CAC/MSOS (Carter)-8-5	“	“	“
Ex. #RCM/TREE/CAC/MSOS (Carter)-8-6	“	“	“
Ex. #RCM/TREE/CAC/MSOS (Carter)-8-7	“	“	“
Ex. #RCM/TREE/CAC/MSOS (Carter)-8-8	“	“	“
Ex. #RCM/TREE/CAC/MSOS (Carter)-8-9	“	“	“
Ex. #RCM/TREE/CAC/MSOS (Carter)-8-10	“	“	“
Ex. #RCM/TREE/CAC/MSOS (Carter)-8-11	“	“	“
Ex. #RCM/TREE/CAC/MSOS (Carter)-8-12	“	“	“
Ex. #RCM/TREE/CAC/MSOS (Carter)-8-13	“	“	“
Ex. #RCM/TREE/CAC/MSOS (Carter)-8-14	“	“	“
Ex. #RCM/TREE/CAC/MSOS (Carter)-8-15	“	“	“
Ex. #RCM/TREE/CAC/MSOS (Carter)-8-16	“	“	“
Ex. #RCM/TREE/CAC/MSOS (Carter)-8-17	“	“	“
Ex. #RCM/TREE/CAC/MSOS (Carter)-8-18	“	“	“
Ex. #RCM/TREE/CAC/MSOS (Carter)-8-19	“	“	“

Ex. #RCM/TREE/CAC/MSOS (Carter)-8-20	“	“	“
Ex. #RCM/TREE/CAC/MSOS (Carter)-8-21	“	“	“
Ex. #RCM/TREE/CAC/MSOS (Carter)-8-22	“	“	“
Ex. #RCM/TREE/CAC/MSOS (Carter)-8-23	“	“	“
Ex. #RCM/TREE/CAC/MSOS (Carter)-8-24	“	“	“
Ex. #RCM/TREE/CAC/MSOS (Carter)-8-25	“	“	“
Ex. #RCM/TREE/CAC/MSOS (Carter)-8-26	“	“	“
Ex. #RCM/TREE/CAC/MSOS (Carter)-8-27	“	“	“
Ex. #RCM/TREE/CAC/MSOS (Carter)-8-28	“	“	“
Ex. #RCM/TREE/CAC/MSOS (Carter)-8-29	“	“	“
Ex. #RCM/TREE/CAC/MSOS (Carter)-8-30	“	“	“
Ex. #RCM/TREE/CAC/MSOS (Carter)-8-31	“	“	“
Ex. #RCM/TREE/CAC/MSOS (Carter)-8-32	“	“	“
Ex. #RCM/TREE/CAC/MSOS (Carter)-8-33	“	“	“
Ex. #RCM/TREE/CAC/MSOS (Carter)-8-34	“	“	“
Ex. #RCM/TREE/CAC/MSOS (Carter)-8-35	“	“	“

Ex. #RCM/TREE/CAC/MSOS (Carter)-8-36	“ “ “	
Ex. #RCM/TREE/CAC/MSOS (Carter)-8-37	“ “ “	
Ex. #RCM/TREE/CAC/MSOS (Carter)-8-38	“ “ “	
Ex. #RCM/TREE/CAC/MSOS (Carter)-8-39	“ “ “	
Ex. #RCM/TREE-9	Submission on Interim Rates – April 1, 2011	March 17, 2011
Ex. #RCM/TREE-10	Questions for oral and written response	GHG, direct billing, seasoned bill analysis
Ex. #RCM/TREE-11	Book of Documents	April 15, 2011
Ex. #RCM/TREE-12	Quantification of NEB’s presentation to IEA Fuel Poverty Workshop	January 2011
Ex. #RCM/TREE-13	Book of Documents Re: Tom Carter	June 8, 2011
Ex. #RCM/TREE-14	Undertaking 164, 164A and 164B	Mr. Colton’s cost calculations. A 6%, 8% and 10% affordable heating burden.
Ex. #RCM/TREE-15	Undertaking 165	Total program costs.

**CITY OF WINNIPEG'S EXHIBITS**

Ex. #CITY/MH-1-1	City of Winnipeg's 1 <sup>st</sup> round information requests and Manitoba Hydro responses.			Electronic copy of the map of boundary streets for each financial district within the City of Winnipeg
Ex. #CITY/MH-1-2	“	“	“	Class contributions to the seasonal system peaks
Ex. #CITY/MH-1-3	“	“	“	The class non-coincident demands
Ex. #CITY/MH-1-4	“	“	“	Non-coincident peak demands
Ex. #CITY/MH-1-5	“	“	“	Non-coincident peak demand of each class
Ex. #CITY/MH-1-6	“	“	“	Non-coincident peak demand of each class
Ex. #CITY/MH-1-7	“	“	“	Efforts various departments devoted to each customer class
Ex. #CITY/MH-1-8	“	“	“	Percentage of customer-related costs assignable to each class
Ex. #CITY/MH-1-9	“	“	“	Percentage of customer-related costs assignable to each class
Ex. #CITY/MH-1-10	“	“	“	The number of customers and the adjustments for the water heating
Ex. #CITY/MH-1-11	“	“	“	Number of taps into the distribution system
Ex. #CITY/MH-1-12	“	“	“	Analysis undertaken to determine the allocated portion of interest and contribution to reserves
Ex. #CITY/MH-1-13	“	“	“	Direct operating costs associated with the Area and Roadway Lighting
Ex. #CITY/MH-1-14	“	“	“	Direct interest costs associated with the Area and Roadway Lighting
Ex. #CITY/MH-1-15	“	“	“	Direct depreciation costs associated with the Area and Roadway Lighting

Ex. #CITY/MH-1-16	“	“	“	Area and Roadway Lighting Category margin
Ex. #CITY/MH-1-17	“	“	“	Answers to q1 thru 16 on the basis of PCOSS11
Ex. #CITY/MH-2-1	City of Winnipeg's 2 <sup>nd</sup> round information requests and Manitoba Hydro responses.			Electronic copy of the map which shows the boundary streets for each financial district
Ex. #CITY/MH-2-2	“	“	“	Basis for the percentage for each estimate of Class Share for Individual SCC's
Ex. #CITY/MH-2-3	“	“	“	Explanation for each column which pertains to Roadway and Area Lighting
Ex. #CITY/MH-2-4	“	“	“	Basis of the factor of 1:10
Ex. #CITY/MH-2-5	“	“	“	Interest charges
Ex. #CITY/MH-2-6	“	“	“	Labour, Direct Materials and Purchased Services, Overheads, Less: Depreciation
Ex. #CITY/MH-2-7	“	“	“	Finance Expenses, Capital Taxes and Contributions to Reserve
Ex. #CITY/MH-2-8	“	“	“	List of all depreciated items in Dedicated A&RL Plant
Ex. #CITY/MH-2-9	“	“	“	“C” portion of the allocated costs
Ex. #CITY/MH-2-10	“	“	“	Area and Roadway Lighting above the ZOR
Ex. #CITY/MH-2-11	“	“	“	
Ex. #CITY/MH-2-12	“	“	“	
Ex. #CITY-3	Final Written Submission			June 20, 2011



**SOUTHERN CHIEFS' ORGANIZATION INC.'S EXHIBITS**

Ex. #SCO/MH-1-1	Southern Chiefs' Organization Inc.'s second round information requests and Manitoba Hydro's responses			Contingency fund for environmental damages
Ex. #SCO/MH-1-2	"	"	"	Funding for potential damages to SCO
Ex. #SCO/MH-1-3	"	"	"	Do rates include provision for damages
Ex. #SCO/MH-1-4	"	"	"	Studies on environmental impacts
Ex. #SCO/MH-1-5	"	"	"	Synopsis of studies
Ex. #SCO/MH-1-6	"	"	"	Studies of accounting impacts fore damages of aboriginal properties
Ex. #SCO/MH-1-7	"	"	"	Synopsis of Studies of accounting impacts fore damages of aboriginal properties
Ex. #SCO/MH-1-8	"	"	"	Records on consultations and potential damages
Ex. #SCO/MH-1-9	"	"	"	Paleo archeological studies
Ex. #SCO/MH-1-10	"	"	"	Imported power versus power purchases
Ex. #SCO/MH/RISK-2-1	Southern Chiefs' Organization Inc.'s risk round information requests and Manitoba Hydro's responses			
Ex. #SCO/MH/RISK-2-2	"	"	"	
Ex. #SCO/MH/RISK-2-3	"	"	"	
Ex. #SCO/MH/RISK-2-4	"	"	"	
Ex. #SCO/MH/RISK-2-5	"	"	"	

**INDEPENDENT EXPERT WITNESSES – DR. A. KUBURSI AND DR. L. MAGEE’S EVIDENCE**

Ex. #KM-1	Terms of Reference	
Ex. #KM-2	Evidence of Drs. Kubursi and Magee.	
Ex. #KM-3	Responses to Questions – papers of KM	Bowman, McLaren, Wallach and MH
Ex. #KM-4	Direct Examination on Report of Kubursi and Magee	May 2011
Ex. #KM-5	MH letter of November 14, 2010 to Independent Witness	Re: Draft Copy of KM report
Ex. #KM-6	Re: MH Ex. #MH-88 – Tr Pg 3916	Evaluation of KPMG Risk Management Recommendations
Ex. #KM-7	Undertaking Questions 1-25 responses to PUB from Independent Experts	May 17, 2011
Ex. #KM-8	Undertaking #162 – Tr Pg 6268	Drought costs with and without financing
Ex. #KM-9	Undertaking #149 – Tr Pg 6419	Imports from U.S.
Ex. #KM-10	Undertaking #150 – Tr Pg 6602	Generation/Revenues
Ex. #KM-11	Price of US imports	Normal probability distribution function fit to data
Ex. #KM-12	Fit comparison for generation	Replacement document to Figure 6.44
Ex. #KM-13	Flow/Generation	formulas
Ex. #KM-14	PUB – IR’s of Independent Witness and Responses	

**NEW YORK CONSULTANTS' EXHIBITS**

Ex. #NYC-1

Appendix A - The New York  
Consultant's June 30, 2010 Public  
Document