



**EXHIBIT LIST FOR
MANITOBA HYDRO
2017/18 & 2018/19 General Rate Application**

February 16, 2018

MANITOBA HYDRO (MH) Exhibits

Ex. #	MH-1	Manitoba Hydro letter to PUB re Timing of Electric GRA dated November 29, 2016
Ex. #	MH-2	Manitoba Hydro letter to PUB re Intentions in respect of 2017 Rate Application(s) dated March 24, 2017
Ex. #	MH-3	Manitoba Hydro letter to PUB re Minimum Filing Requirements & Scope of the Upcoming General Rate Application
Ex. #	MH-4	Manitoba Hydro cover letter dated May 5, 2017 re General Rate Application
Ex. #	MH-5	Manitoba Hydro 2017/18 & 2018/19 General Rate Application
Ex. #	MH-6	Manitoba Hydro cover letter dated May 12, 2017 re General Rate Application
Ex. #	MH-7	Manitoba Hydro cover letter dated May 26, 2017 re General Rate Application
Ex. #	MH-8	Manitoba Hydro to PUB letter re August 1, 2017 Interim Rates dated June 2, 2017
Ex. #	MH-9	Manitoba Hydro Written Submission on Interim Rates dated June 20, 2017
Ex. #	MH-10	Manitoba Hydro cover letter dated June 21, 2017 re General Rate Application MFRs
Ex. #	MH-11	Manitoba Hydro cover letter dated June 23, 2017 re General Rate Application

Ex. #	MH-12	Manitoba Hydro cover letter dated June 30, 2017 re General Rate Application
Ex. #	MH-13	Manitoba Hydro letter dated July 11, 2017 re Updated Financial Forecast
Ex. #	MH-14	Manitoba Hydro CSI Process Motion - dated July 11, 2017
Ex. #	MH-14-1	CSI Process Submission Schematic
Ex. #	MH-15	Manitoba Hydro Interim Rates August 1, 2017 Reply Submission - July 19, 2017
Ex. #	MH-16	Presentation by Manitoba Hydro - Business Operations, Capital and Asset Management Technical Conference - July 20, 2017
Ex. #	MH-17	Transcript of Proceedings - Business Operations, Capital and Asset Management Technical Conference - July 20, 2017
Ex. #	MH-18	Manitoba Hydro's response to the Coalition's request re Cost of Service Model - July 20, 2017 email from Counsel
Ex. #	MH-19	Manitoba Hydro's Comments on Proposed Intervener Budgets dated July 21, 2017
Ex. #	MH-20	Cost of Service Model - July 26, 2017 email
Ex. #	MH-21	Manitoba Hydro's Comments on the Business Council's Budget Submission
Ex. #	MH-22	Manitoba Hydro - Rate Schedules further to Order 80/17 - August 1, 2017
Ex. #	MH-23	Proof of Revenues based on 2017 Electric Load Forecast - August 2, 2017
Ex. #	MH-24	Manitoba Hydro to PUB re City of Winnipeg's Proposed Intervention - letter dated August 2, 2017
Ex. #	MH-25	Manitoba Hydro to PUB re Information Requests - August 2, 2017
Ex. #	MH-26	Revised Rate Schedules to be Effective August 1, 2017 - Area & Roadway Lighting (Outdoor Lighting) Light Emitting Diode (LED) Rates - Letter dated August 24, 2017

Ex. #	MH-27	Letter from KA Shepherd of Manitoba Hydro re First Round Information Requests - September 5, 2017
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Ex. #	MH-29	Manitoba Hydro to PUB re Remaining Minimum Filing Requirements - September 7, 2017
Ex. #	MH-30	Manitoba Hydro re Appendix 9.14 Report on Rate Design for the Residential Class - September 14, 2017
Ex. #	MH-31	Manitoba Hydro to PUB re IEC Status and Scope - September 18, 2017
Ex. #	MH-32	Manitoba Hydro - CSI Motion - Round 1 Information Requests - September 21 2017
Ex. #	MH-33	Manitoba Hydro to PUB re Revised Information Requests - September 21 2017
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Ex. #	MH-39	Manitoba Hydro (MH) to AMC Information requests (1-8)
Ex. #	MH-39-1	" " " " " " Summary and Discussion
Ex. #	MH-39-2	" " " " " " retainer letter for Assembly of Manitoba Chiefs

Ex. #	MH-39-3	" " " " " " "	impact of .15 kWh and .70kWh
Ex. #	MH-39-4	" " " " " " "	MH Application conclusion Mipole III developed
Ex. #	MH-39-5	" " " " " " "	export revenues
Ex. #	MH-39-6	" " " " " " "	Income figures
Ex. #	MH-39-7	" " " " " " "	assistance for electricity costs social assistance
Ex. #	MH-39-8	" " " " " " "	Qualifications on report
Ex. #	MH-40	Manitoba Hydro (MH) to Coalition (Compton/Simpson) Information Requests	
Ex. #	MH-40-1	" " " " " " "	Limitations of Methodology and modeling
Ex. #	MH-40-2	" " " " " " "	Total Input Use
Ex. #	MH-40-3	" " " " " " "	Price elasticity of demand
Ex. #	MH-40-4	" " " " " " "	zero price elasticity of demand
Ex. #	MH-40-5	" " " " " " "	Total employment level
Ex. #	MH-40-6	" " " " " " "	Financial Forecast
Ex. #	MH-40-7	" " " " " " "	Retainer Letters of Dr. Simpson and Dr. Compton
Ex. #	MH-41	Manitoba Hydro (MH) to Coalition (ECS) Information Requests	
Ex. #	MH-41-1	" " " " " " "	Retainer letter for Mr. Harper

Ex. #	MH-41-2	"	"	"	"	"	"	CFO to CAP/EX ratio
Ex. #	MH-41-3	"	"	"	"	"	"	Retained earnings
Ex. #	MH-41-4	"	"	"	"	"	"	Comparative results
Ex. #	MH-41-5	"	"	"	"	"	"	IFF15 and IFF16
Ex. #	MH-41-6	"	"	"	"	"	"	DSM deferred asset account
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Ex. #	MH-41-8	"	"	"	"	"	"	Total Assets with total number of customers
Ex. #	MH-41-9	"	"	"	"	"	"	Regulatory Justifications
Ex. #	MH-41-10	"	"	"	"	"	"	avoided emission costs
Ex. #	MH-41-11	"	"	"	"	"	"	Rate Design proposal
Ex. #	MH-41-12	"	"	"	"	"	"	Assistance from Social Assistance
Ex. #	MH-41-13	"	"	"	"	"	"	Low-income assistance funded by all ratepayers
Ex. #	MH-41-14	"	"	"	"	"	"	Lost Revenue and Recovery base
Ex. #	MH-41-15	"	"	"	"	"	"	Zone of reasonableness
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Ex. #	MH-42	Manitoba Hydro (MH) to Coalition (METSCO) Information Requests						
Ex. #	MH-42-1	"	"	"	"	"	"	Strategic asset management system

Ex. #	MH-42-2	" " " " " " " Asset Management plan
Ex. #	MH-42-3	" " " " " " " Regulatory Model
Ex. #	MH-42-4	" " " " " " " oversight recommendations
Ex. #	MH-42-5	" " " " " " " Duties and METSCO retainer letter
Ex. #	MH-43	Manitoba Hydro (MH) to Coalition (Simpson) Information Requests
Ex. #	MH-43-1	" " " " " " " Identifying energy poor
Ex. #	MH-43-2	" " " " " " " Efficient rate assistance program
Ex. #	MH-43-3	" " " " " " " Efficient Rate Assistance Program funding
Ex. #	MH-43-4	" " " " " " " Qualifications and Duties for Dr. Simpson
Ex. #	MH-44	Manitoba Hydro (MH) to Coalition (MPA) Information Requests
Ex. #	MH-44-1	" " " " " " " Capital Markets on other financial metrics
Ex. #	MH-44-2	" " " " " " " Meaning of Costs to MPA
Ex. #	MH-44-3	" " " " " " " Minimize Rate Costs for domestic customers
Ex. #	MH-44-4	" " " " " " " Debt levels and consequent interest costs

Ex. #	MH-44-22	" " " " " " " Ratepayers contributions
Ex. #	MH-44-23	" " " " " " " Rate-making Policy
Ex. #	MH-44-24	" " " " " " " Summary Observations contributors
Ex. #	MH-44-25	" " " " " " " Retainer Letters for contributors
Ex. #	MH-45	Manitoba Hydro (MH) to Green Action Centre (GAC) Information Requests
Ex. #	MH-45-1	" " " " " " " Retainer letter for Mr. Chernick
Ex. #	MH-45-2	" " " " " " " Order 112/17
Ex. #	MH-45-3	" " " " " " " Rate Design
Ex. #	MH-45-4	" " " " " " " Marginal Costs
Ex. #	MH-45-5	" " " " " " " Marginal distribution costs by class
Ex. #	MH-45-6	" " " " " " " Rate Proposals
Ex. #	MH-45-7	" " " " " " " Excel Calculations
Ex. #	MH-45-8	" " " " " " " LICO 125 customers
Ex. #	MH-45-9	" " " " " " " kWh table figures
Ex. #	MH-45-10	" " " " " " " Rate Proposals
Ex. #	MH-46	MH to GSS/GSM-KAP Information Request
Ex. #	MH-46-1	" " " " " " " Key Findings

Ex. #	MH-47-6	"	"	"	"	"	"	Investment requirements
Ex. #	MH-47-7	"	"	"	"	"	"	Hydroelectric project
Ex. #	MH-47-8	"	"	"	"	"	"	Low Power Pricing
Ex. #	MH-47-9	"	"	"	"	"	"	Capital Market experience
Ex. #	MH-47-10	"	"	"	"	"	"	Substantial Reserve
Ex. #	MH-47-11	"	"	"	"	"	"	Full Net Income
Ex. #	MH-47-12	"	"	"	"	"	"	Self Sufficiency
Ex. #	MH-47-13	"	"	"	"	"	"	BCG's views
Ex. #	MH-47-14	"	"	"	"	"	"	Load Forecast for Gross Firm Energy
Ex. #	MH-47-15	"	"	"	"	"	"	Interim Hearing
Ex. #	MH-47-16	"	"	"	"	"	"	Forecast net Debt
Ex. #	MH-47-17	"	"	"	"	"	"	Net cost to ratepayers
Ex. #	MH-47-18	"	"	"	"	"	"	O&A costs in current filing
Ex. #	MH-47-19	"	"	"	"	"	"	ASL method
Ex. #	MH-47-20	"	"	"	"	"	"	Building Moves and Safety Watches
Ex. #	MH-47-21	"	"	"	"	"	"	Industrial & Commercial Solutions
Ex. #	MH-47-22	"	"	"	"	"	"	calculations supporting Figure A-6

Ex. #	MH-47-23	" " " " " " " Figure A-7
Ex. #	MH-47-24	" " " " " " " Table A-2
Ex. #	MH-48	MH to MIPUG (Osler/Forrest) 1-5 Information Requests
Ex. #	MH-48-1	" " " " " " " Cv's , retainers, and job descriptions
Ex. #	MH-48-2	" " " " " " " Policy goals in reation to rates
Ex. #	MH-48-3	" " " " " " " year to year percentage rate changes
Ex. #	MH-48-4	" " " " " " " Maximum Debt
Ex. #	MH-48-5	" " " " " " " Behind the scene contributions
Ex. #	MH-49	MH to PUB revised MFR
Ex. #	MH-50	Manitoba Hydro to City of Winnipeg Information Requests
Ex. #	MH-50-1	" " " " " " " Mr. Markowsky's CV and Job description
Ex. #	MH-50-2	" " " " " " " Price elasticity in direct electricity costs
Ex. #	MH-50-3	" " " " " " " Past Electricity price increase
Ex. #	MH-50-4	" " " " " " " Direct Electricity Billings chart
Ex. #	MH-50-5	" " " " " " " Indirect Electricity Billing Chart
Ex. #	MH-50-6	" " " " " " " Electricity tax revenue

Ex. #	MH-50-7	" " " " " " Unsustainable structural deficit
Ex. #	MH-50-8	" " " " " " Conference Board of Canada's Metroplitian Outlook
Ex. #	MH-50-9	" " " " " " Financial Target review
Ex. #	MH-51	Manitoba Hydro - CSI Motion - Round 2 Information Request - November 21, 2017
Ex. #	MH-52	Manitoba Hydro Rebuttal Evidence - November 22, 2017
Ex. #	MH-53	Manitoba Hydro letter to PUB re: BCM Budget Variance - November 24, 2017
Ex. #	MH-54	Manitoba Hydro letter to PUB re: IR of IEC - November 24, 2017
Ex. #	MH-55	Manitoba Hydro to Dr. Yatchew - Information Requests
Ex. #	MH-55-1	" " " " " " electiricty price elasticity
Ex. #	MH-55-2	" " " " " " third party priticiate or assitante in report
Ex. #	MH-55-3	" " " " " " Scope of Work - retainer documents
Ex. #	MH-55-4	" " " " " " price elasticity impact on electricity demand
Ex. #	MH-55-5	" " " " " " degree price response be attenuated given MB lower electricity prices
Ex. #	MH-56	Manitoba Hydro to Daymark (Export) - Information Requests
Ex. #	MH-56-1	" " " " " " consdered reports in preparation of Export Pricing Revenue
Ex. #	MH-56-2	" " " " " " Expencted New Generation Over next 20 years

Ex. #	MH-56-3	"	"	"	"	"	"	Retire,emt Assumptions by zone by 2031
Ex. #	MH-56-4	"	"	"	"	"	"	MTEP Report Book 3, MVP Portfolio
Ex. #	MH-56-5	"	"	"	"	"	"	Assumed reitirements in MTEP17
Ex. #	MH-56-6	"	"	"	"	"	"	Statewide RPS renewable Retail Sales
Ex. #	MH-56-7	"	"	"	"	"	"	NSP applies to North Dakota, separate North States Power
Ex. #	MH-56-8	"	"	"	"	"	"	Planning Resource Aution
Ex. #	MH-56-9	"	"	"	"	"	"	24 GW resources by 2031
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Ex. #	MH-56-11	"	"	"	"	"	"	probability based forecasting superior to scenario based forecasting
Ex. #	MH-56-12	"	"	"	"	"	"	reasonableness definition
Ex. #	MH-56-13	"	"	"	"	"	"	third party forecasters, P50 P-value
Ex. #	MH-56-14	"	"	"	"	"	"	Reference cast forecast to be a P50 case
Ex. #	MH-56-15	"	"	"	"	"	"	Electricity price forecast
Ex. #	MH-56-16	"	"	"	"	"	"	documents in regards to retainer
Ex. #	MH-56-17	"	"	"	"	"	"	Export Pricing and Revenus Report authors
Ex. #	MH-57	Manitoba Hydro-Daymark (Load Forecast) - Information Requests						
Ex. #	MH-57-1	"	"	"	"	"	"	forecast probability of being acurate 50%

Ex. #	MH-57-2	" " " " " " " forecasting approaches would be considered loading edge
Ex. #	MH-57-3	" " " " " " " base forecast
Ex. #	MH-57-4	" " " " " " " Electric Load decrease due to natural gas
Ex. #	MH-57-5	" " " " " " " developing alternative futures
Ex. #	MH-57-6	" " " " " " " suggested price elasticity values incorrectly estimated
Ex. #	MH-57-7	" " " " " " " 2011, 2014, 2015, 2016 Forecast Values
Ex. #	MH-57-8	" " " " " " " electric price assumption
Ex. #	MH-57-9	" " " " " " " annual HDDs lower than normal HDD
Ex. #	MH-57-10	" " " " " " " Population statistics/ population forecast
Ex. #	MH-57-11	" " " " " " " Key Summary Findings
Ex. #	MH-57-12	" " " " " " " Scope of Work
Ex. #	MH-57-13	" " " " " " " price of elasticity impact on electricity demands
Ex. #	MH-58	Manitoba Hydro letter to PUB Response to Order 120-17 - November 28, 2017
Ex. #	MH-59	Manitoba Hydro - Policy Panel
Ex. #	MH-59-1	" " " " " " " CV Shepherd Kelvin
Ex. #	MH-59-2	" " " " " " " CV McCallum Jamie
Ex. #	MH-60	Manitoba Hydro - Requirement Panel

Ex. #	MH-60-1	" " " " " " CV Bauerlein Sandy
Ex. #	MH-60-2	" " " " " " CV Carriere Liz
Ex. #	MH-60-3	" " " " " " CV Cormie David
Ex. #	MH-60-4	" " " " " " CV Miles Terry
Ex. #	MH-60-5	" " " " " " CV Morrison Lois
Ex. #	MH-60-6	" " " " " " CV Neufeld Gerald
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Ex. #	MH-60-8	" " " " " " CV Stephen Susan
Ex. #	MH-60-9	" " " " " " CV Swatek David
Ex. #	MH-60-10	" " " " " " CV Turner Hal
Ex. #	MH-60-11	" " " " " " CV Wortley Joel
Ex. #	MH-61	MH letter to PUB re Manitoba Hydro Electric Board Report - November 28, 2017 (CSI DOCUMENTS)
Ex. #	MH-62	Quarterly Report Cover Letter - November 16-17, 2017
Ex. #	MH-63	Opening Statement
Ex. #	MH-64	Opening Presentation
Ex. #	MH-65	Manitoba Hydro's Top 10 Irs
Ex. #	MH-66	Manitoba Hydro letter to PUB re Response to letter of November 30, 2017 - December 4, 2017

Ex. #	MH-67	Manitoba Chambers of Commerce - Our Plan to Restore Manitoba Hydro and Protect Manitobans
Ex. #	MH-68	Manitoba Hydro - Revenue Requirements Presentation
Ex. #	MH-68-1	" " " " " " " " " " Page 29-1 of Revenue Requirement Presentation
Ex. #	MH-69	Manitoba Hydro Speaking Notes for Mr. Riley's Public Information Session Presentation from October 2016
Ex. #	MH-70	Supplement to PUB-MH I-56a-c with Attachments
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Ex. #	MH-72	Manitoba Hydro Undertaking 1 - IFF models to MH Electric Board
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Ex. #	MH-74	Manitoba Hydro Undertaking from transcript page 507 - Performance Targets re: Colaition/MH I-144
Ex. #	MH-75	Manitoba Hydro Question from PUB Board- Cost of Heating with Carbon Levy
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Ex. #	MH-77	Manitoba Hydro - Cost of Service and Rate Design Panel
Ex. #	MH-77-1	" " " " " " " " " " CV of Greg Barnlund "
Ex. #	MH-77-2	" " " " " " " " " " CV of Paul Chard "
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Ex. #	MH-78	Manitoba Hydro Undertaking 5 - Operating and Administravie Costs

Ex. #	MH-79	Manitoba Hydro Undertaking 6 - Updated PUB MFR 55 and MIPUG-MH I-14b
Ex. #	MH-80	Manitoba Hydro Undertaking 9 - Updated Chart from MIPUG 23-2 page 83 Maximum Net debt
Ex. #	MH-81	Manitoba Hydro Undertaking 10 - 12 year WATM
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Ex. #	MH-83	MH-PUB Rebuttal Evidence re Daymark load and export Reports
Ex. #	MH-84	Manitoba Hydro Undertaking 7 - MH-68 Slide 72
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Ex. #	MH-87	Manitoba Hydro Undertaking 4 - Provincial Equity Injection
Ex. #	MH-88	Manitoba Hydro Cost of Service, Rate Design and Bill Affordability Panel Presentation
Ex. #	MH-89	Manitoba Hydro Undertaking 28 - Appendix 3.8 updated with 3.36 % interim, effective August 1, 2016
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Ex. #	MH-91	Manitoba Hydro Undertaking 19 - change in methodology and why the change was made
Ex. #	MH-92	Manitoba Hydro - MGF - Information Requests
Ex. #	MH-92-1	" " " " " " " " " " CV's from MGF Report "
Ex. #	MH-92-2	" " " " " " " " " " Management Improvements on " Capital Expenditure
Ex. #	MH-92-3	" " " " " " " " " " Target Price Contract "

Ex. #	MH-92-4	" " " " " " " " " "	Project Schedule
Ex. #	MH-92-5	" " " " " " " " " "	Labour Costs
Ex. #	MH-92-6	" " " " " " " " " "	KCN and Local employment
Ex. #	MH-92-7	" " " " " " " " " "	Cost Increases
Ex. #	MH-92-8	" " " " " " " " " "	Increase to GCC - quantities
Ex. #	MH-92-9	" " " " " " " " " "	Keyask Cost Estimate
Ex. #	MH-92-10	" " " " " " " " " "	escalation calculations
Ex. #	MH-92-11	" " " " " " " " " "	Project Execution Reporting and Financial Reporting
Ex. #	MH-92-12	" " " " " " " " " "	Governance
Ex. #	MH-92-13	" " " " " " " " " "	Misaligened Estimates
Ex. #	MH-92-14	" " " " " " " " " "	Trends from 2017 Basis of Estimate Document
Ex. #	MH-92-15	" " " " " " " " " "	Monitoring and Managing
Ex. #	MH-92-16	" " " " " " " " " "	Work Breakdown Structure Summary
Ex. #	MH-92-17	" " " " " " " " " "	Control Budget
Ex. #	MH-92-18	" " " " " " " " " "	BBE Construction Drawings (IFC)
Ex. #	MH-92-19	" " " " " " " " " "	410-day magnitude
Ex. #	MH-92-20	" " " " " " " " " "	work with BBC and Voith to align schedules

Ex. #	MH-92-21	" " " " " " " " " "	Extra Work Orders
Ex. #	MH-92-22	" " " " " " " " " "	Procurement of equipment of General Civil Work Contractor
Ex. #	MH-92-23	" " " " " " " " " "	craft to foreman ratio
Ex. #	MH-92-24	" " " " " " " " " "	Keyask Transmission Project
Ex. #	MH-92-25	" " " " " " " " " "	Contingency
Ex. #	MH-92-26	" " " " " " " " " "	Capital Review
Ex. #	MH-92-27	" " " " " " " " " "	Correction to Response to MGF - Keyask
Ex. #	MH-92-28	" " " " " " " " " "	survey of earthwork
Ex. #	MH-92-29	" " " " " " " " " "	scaffold costs
Ex. #	MH-92-30	" " " " " " " " " "	concretet productivity
Ex. #	MH-92-31	" " " " " " " " " "	Productivity and lower cost
Ex. #	MH-92-32	" " " " " " " " " "	Schedule of Cost
Ex. #	MH-92-33	" " " " " " " " " "	internal labour costs budgeted beyond project
Ex. #	MH-92-34	" " " " " " " " " "	Bipole III Converter Station Porject Controls Report
Ex. #	MH-92-35	" " " " " " " " " "	Keewatinohk 230kV AV Switchyard behind scheudle
Ex. #	MH-92-36	" " " " " " " " " "	lump sum Variations
Ex. #	MH-92-37	" " " " " " " " " "	P50 Coporate Standard

Ex. #	MH-92-38	" " " " " " " " " "	Stanley Constultants
Ex. #	MH-92-39	" " " " " " " " " "	Rokstad Contact
Ex. #	MH-92-40	" " " " " " " " " "	Distribution Line Crossing and Transmission Line Contraction Yard
Ex. #	MH-92-41	" " " " " " " " " "	Risk Regster
Ex. #	MH-92-42	" " " " " " " " " "	Contracts listing
Ex. #	MH-92-43	" " " " " " " " " "	variation log/summaries
Ex. #	MH-92-44	" " " " " " " " " "	Rokstad Power completeion date
Ex. #	MH-92-45	" " " " " " " " " "	Recovery Plan for Rokstad
Ex. #	MH-92-46	" " " " " " " " " "	Basis of Estimate
Ex. #	MH-92-47	" " " " " " " " " "	Industry Standard Project Cost
Ex. #	MH-92-48	" " " " " " " " " "	Klohn Crippen Berger
Ex. #	MH-92-49	" " " " " " " " " "	Hydroelectric power Projects in Northern Canada
Ex. #	MH-93		Manitoba Hydro Follow-up Undertaking Nos 7 & 8 -MH 68 Slide 72 Updated
Ex. #	MH-94		Manitoba Hydro Undertaking 24 -2014 Residential Energy Survey
Ex. #	MH-95		Manitoba Hydro Undertaking 16 - Other Countries bill affordability programs
Ex. #	MH-96		Manitoba Hydro Undertaking 20 - explanation why marginal values changed under new methodology
Ex. #	MH-97		Manitoba Hydro Undertaking 29 - 10,000 payments to accounts of First Nation customers receiving socail assistance

Ex. #	MH-98	Manitoba Hydro Undertakings 21-23 - Figure 7 of AMC/MH II-23, LICO-125 6 percent threshold
Ex. #	MH-99	Manitoba Hydro Undertaking 17 - Meter Maintenance Subfunctionalizing distribution of poles, wires and substations
Ex. #	MH-100	Manitoba Hydro Undertaking 27 - 20 year levelized marginal values
Ex. #	MH-101	Manitoba Hydro Undertaking from transcript page 2396 -Updated Figure 8.14 (Tab 8)
Ex. #	MH-102	Manitoba Hydro Undertaking 18 - Performance Optimization Programs
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Ex. #	MH-104	Manitoba Hydro Projected Annual Residential Electric Bills
Ex. #	MH-105	Manitoba Hydro Undertaking 37 - Updated of Slide 15 from MH 88
Ex. #	MH-106	Manitoba Hydro letter to Public Utilities Board re Daymark Saskpower Report redactions - January 5, 2018
Ex. #	MH-107	Manitoba Hydro letter to Public Utilities Board re Withdrawal of R & V on Daymark Saskpower Report - January 9, 2018
Ex. #	MH-108	Manitoba Hydro Undertaking 32 - Single Detached Homes Electricity Heat on and off reserve
Ex. #	MH-109	Manitoba Hydro Undertaking 38 - Geothermal Program
Ex. #	MH-110	Manitoba Hydro Undertaking 34 - Actual Expenditures for 2016/17 year for Load Displacement Program
Ex. #	MH-111	MH to MGF (KCB) Information Requests
Ex. #	MH-111-1	" " " " " " " " " " " MH-92-1 "
Ex. #	MH-111-2	" " " " " " " " " " " MH-92-3 "
Ex. #	MH-111-3	" " " " " " " " " " " MH-92-38 "

Ex. #	MH-111-4	" " " " " " " " " " MH-92-48 "
Ex. #	MH-111-5	" " " " " " " " " " MH-92-49 "
Ex. #	MH-112	Manitoba Hydro Undertaking 35 - DSM Expenditures
Ex. #	MH-113	Manitoba Hydro Undertaking 25 - MKO First Nation Revenue
Ex. #	MH-114	Manitoba Hydro Undertaking 26 - MKO Revenue at 7.9% increase
Ex. #	MH-115	Manitoba Hydro Undertaking 30 & 31 - Generation Marginal Value
Ex. #	MH-116-1	Manitoba Hydro Book of Documents for Cross Examination of Morrison Park Advisors
Ex. #	MH-116-2	Manitoba Hydro Book of Documents 2 - Cross Examination of MIPUG
Ex. #	MH-116-3	Manitoba Hydro Book fo Documents 3 - Cross Examination of London Economics International
Ex. #	MH-116-4	Manitoba Hydro Book fo Documents 4 - Cross Examination of MGF
Ex. #	MH-117	Manitoba Hydro Rebuttal of MGF Evidence - January 16, 2018
Ex. #	MH-118	Manitoba Hydro - Major Capital Projects Panel
Ex. #	MH-118-1	" " " " " " " " " " CV of Lorne Midford "
Ex. #	MH-118-2	" " " " " " " " " " CV of Glenn Penner "
Ex. #	MH-118-3	" " " " " " " " " " CV of Dave Bowen "
Ex. #	MH-118-4	" " " " " " " " " " CV of Jeff Strongman "
Ex. #	MH-118-5	" " " " " " " " " " CV of Alastair Fogg "

Ex. #	MH-119	Manitoba Hydro Letter to Public Utilities Board re MGF Report Redactions - January 19, 2018
Ex. #	MH-120	Manitoba Hydro - Major Capital Projects Presentation
Ex. #	MH-121 CSI	Manitoba Hydro - Major Capital Projects Panel Presentation - Confidential
Ex. #	MH-122	Manitoba Hydro Undertaking 33 - MH variatoin with respect to Order 116/08
Ex. #	MH-123	Manitoba Hydro Undertaking 36 - Projections for Load Displacement Program
Ex. #	MH-124	Manitoba Hydro Undertaking from Transcript page 3088 - Status Update from page 220 of Order 5/12
Ex. #	MH-125	Manitoba Hydro Undertaking 54 - Presentation of Dr. Swatek - Needs for Bipole III
Ex. #	MH-126	Manitoba Hydro Undertaking 58 - Estimated Costs of Bipole III
Ex. #	MH-127	Manitoba Hydro Undertaking 59 - Road Costs Attributed to Conawapa
Ex. #	MH-128	Terms of Reference for NFAT
Ex. #	MH-129	MH letter to all parties re Legal Argument - January 29, 2018
Ex. #	MH-130	MH letter to PUB re CSI in MFG Report and Rebuttal Evidence
Ex. #	MH-131	Manitoba Hydro Undertaking 55 - Manitoba Hydro Control Schedule
Ex. #	MH-132	Manitoba Hydro Undertaking from Transcript Page 2640 - Solar and other Non-Utility Generation system credits
Ex. #	MH-133	Manitoba Hydro Undertaking 56 - payments to KPMG
Ex. #	MH-134	Manitoba Hydro Undertaking 63 - % of First Nations and Indigenous person working on Keeyask
Ex. #	MH-135	Manitoba Hydro Rebuttal Presentation

Ex. #	MH-135-1	Morrison Park Advisors Analysis
Ex. #	MH-136	Manitoba Hydro Oral Argument - February 5, 2018
Ex. #	MH-137	Manitoba Hydro Written Argument
Ex. #	MH-138	Manitoba Hydro Undertaking 60 - Most Recent Monthly Report
Ex. #	MH-139	Manitoba Hydro Undertaking 53 - Distance between Bipole I and Bipole II
Ex. #	MH-140	Manitoba Hydro additional MH16 Update with Interim Scenarios
Ex. #	MH-140-1	Manitoba Hydro additional MH16 Update with Interim Scenarios with Redactions
Ex. #	MH-141	Manitoba Hydro Undertaking 57 - Keeyask Termination Costs
Ex. #	MH-142	Manitoba Hydro Reply Presentation

EXHIBIT LIST FOR
MANITOBA HYDRO
2017/18 & 2018/19 General Rate Application

February 16, 2018

PUBLIC UTILITIES BOARD (PUB) Exhibits

Ex. #	PUB-1	PUB Letter to Manitoba Hydro dated March 17, 2017 re 2017 Rate Applications
Ex. #	PUB-2	PUB Rules of Practice and Procedure
Ex. #	PUB-3	PUB Letter to Manitoba Hydro and Interveners of Record dated March 31, 2017 re Planning Meeting and Minimum Filing Requirements (MFRs)
Ex. #	PUB-4	Order in Council 92/2017 dated April 5, 2017
Ex. #	PUB-5	PUB Letter to Manitoba Hydro and Interveners of Record dated April 24, 2017 re Intervener Proposed MFR & Additional PUB MFRs
Ex. #	PUB-6	PUB Cover Letter for Public Notice - dated May 9, 2017
Ex. #	PUB-7	PUB Public Notice - Manitoba Hydro's rate application
Ex. #	PUB-8	PUB to MH and Interveners of Record re August 1, 2017 interim rate request and GRA process matters dated May 17, 2017
Ex. #	PUB-9	PUB to MH re Revised Minimum Filing Requirements of the Public Utilities Board dated May 23, 2017
Ex. #	PUB-10	PUB to all Parties re Process Matters dated May 26, 2017
Ex. #	PUB-11	PUB to Potential New Interveners re Process Matters dated May 26, 2017
Ex. #	PUB-12	PUB to All Parties re August 1 2017 Interim Rates dated June 9, 2017

Ex. #	PUB-13	PUB to all parties re Interim Rate Request Oral Hearing - dated June 15, 2017				
Ex. #	PUB-14	PUB Order 70/17 - Procedural Order in Respect of Manitoba Hydro's 2017/18 and 2018/19 General Rate Application - June 30, 2017				
Ex. #	PUB-15	PUB Response to the Coalition's letter re Access to COS Model - July 21, 2017				
Ex. #	PUB-16	PUB Order No. 82/17 - An Order in Respect of Manitoba Hydro's Process Motion for Confidential and Commercially Sensitive Documents Requested in Manitoba Hydro's 2017/18 & 2018/19 General Rate Application - July 28, 2017				
Ex. #	PUB-17	PUB Order No. 80/17 - An Order in Respect of Manitoba Hydro's Application for a 7.9% Interim Rate Increase Effective August 1, 2017 - July 31, 2017				
Ex. #	PUB-18	PUB Order No. 85/17 - Order Approving Manitoba Hydro's Rate Filings for August 1, 2017 Rates - August 3, 2017				
Ex. #	PUB-19	Public Utilities Board to Manitoba Hydro - First Round Information Requests				
Ex. #	PUB-19-1	PUB to MH - First Round Irs	Updated MIPUG MFR 5, MH16			
Ex. #	PUB-19-2	"	"	"	"	" Present value of proposed annualized revenue increase requested
Ex. #	PUB-19-3	"	"	"	"	" Updated table - PUB MFR12
Ex. #	PUB-19-4	"	"	"	"	" KMPG's update to the report based on MH16 Update
Ex. #	PUB-19-5	"	"	"	"	" Update to BCG Report
Ex. #	PUB-19-6	"	"	"	"	" BCG Report - Keeyask recovery plan
Ex. #	PUB-19-7	"	"	"	"	" Generation peak demand, generation sources & capacities, and import capacities for the summer and winter season
Ex. #	PUB-19-8	"	"	"	"	" Affordable Utility Rate Accountability Act

Ex. #	PUB-19-25	"	"	"	"	"	"	Updated PUB MFR 59 - Financing plans, weighted average of outstanding debt, principal amount and proportions of debt maturing
Ex. #	PUB-19-26	"	"	"	"	"	"	Proforma basis for Bipole III - cash negative
Ex. #	PUB-19-27	"	"	"	"	"	"	Interest Rate Forecasting
Ex. #	PUB-19-28	"	"	"	"	"	"	Consolidated Borrowing Requirements & Maturity Schedule
Ex. #	PUB-19-29	"	"	"	"	"	"	Debt Maturities
Ex. #	PUB-19-30	"	"	"	"	"	"	Benchmark GoC and Manitoba 10 Year+ Bond yields
Ex. #	PUB-19-31	"	"	"	"	"	"	PUB MFR 52 Update
Ex. #	PUB-19-32	"	"	"	"	"	"	PUB MFR 57 & 58 - Debt Issuances and corresponding interest rates
Ex. #	PUB-19-33	"	"	"	"	"	"	Reconciliation of values used in the determination of forecast financial ratios with the values in the IFF
Ex. #	PUB-19-34	"	"	"	"	"	"	Electric operations only-IFF scenarios
Ex. #	PUB-19-35	"	"	"	"	"	"	References to credit rating reports
Ex. #	PUB-19-36	"	"	"	"	"	"	PUB MFR 51 - exclusion of Bipole III-related capitalized interest from the adjustment
Ex. #	PUB-19-37	"	"	"	"	"	"	Utilities utilizing a CFO to CAPEX ratio
Ex. #	PUB-19-38	"	"	"	"	"	"	Major New Generation and Transmission projects in CFO to Capex ratio
Ex. #	PUB-19-39	"	"	"	"	"	"	Keeyask - Capitalized interests

Ex. #	PUB-19-57	"	"	"	"	"	"	Forecasts accuracies
Ex. #	PUB-19-58	"	"	"	"	"	"	Power Resource Plan
Ex. #	PUB-19-59	"	"	"	"	"	"	Potential increase in interest rates & borrowing costs if further credit rating downgrades occurs
Ex. #	PUB-19-60	"	"	"	"	"	"	Credit rating reports
Ex. #	PUB-19-61	"	"	"	"	"	"	Communications between Manitoba Hydro and credit rating agencies
Ex. #	PUB-19-62	"	"	"	"	"	"	Progression of project costs
Ex. #	PUB-19-63	"	"	"	"	"	"	Major capital G&T project for year 2008/09 to 2016/17
Ex. #	PUB-19-64	"	"	"	"	"	"	Asset management technology
Ex. #	PUB-19-65	"	"	"	"	"	"	Change in definition of Major New Generation and Transmission
Ex. #	PUB-19-66	"	"	"	"	"	"	Capital expenditure cost savings
Ex. #	PUB-19-67	"	"	"	"	"	"	Corporate value framework
Ex. #	PUB-19-68	"	"	"	"	"	"	Corporate risk standards, tolerance levels and risk assessments
Ex. #	PUB-19-69	"	"	"	"	"	"	Corporate risk
Ex. #	PUB-19-70	"	"	"	"	"	"	Asset-level risk assessment process and process of assessing non-monetary risks
Ex. #	PUB-19-71	"	"	"	"	"	"	UMS Group - Asset Management Gap Assessment Report - addressing gaps
Ex. #	PUB-19-72	"	"	"	"	"	"	Risk assessments - aging electric infrastructure

Ex. #	PUB-19-73	"	"	"	"	"	"	Reputational risk
Ex. #	PUB-19-74	"	"	"	"	"	"	Risk tolerance thresholds
Ex. #	PUB-19-75	"	"	"	"	"	"	Manitoba Hydro Corporate Risk Management Report
Ex. #	PUB-19-76	"	"	"	"	"	"	Manitoba Hydro's Corporate Risk Rating Criteria scale
Ex. #	PUB-19-77	"	"	"	"	"	"	Impact of lower domestic load growth
Ex. #	PUB-19-78	"	"	"	"	"	"	EFT staffing level information
Ex. #	PUB-19-79	"	"	"	"	"	"	Target overtime levels
Ex. #	PUB-19-80	"	"	"	"	"	"	Risk and cost replacement to inform transformer refurbishment vs replacement decisions
Ex. #	PUB-19-81	"	"	"	"	"	"	HVDC Bipole III Valve Hall Wall Bushing Replacement
Ex. #	PUB-19-82	"	"	"	"	"	"	Sustaining and major capital assessment
Ex. #	PUB-19-83	"	"	"	"	"	"	Sustaining and major capital - operational risk evaluation
Ex. #	PUB-19-84	"	"	"	"	"	"	Capital Planning Model
Ex. #	PUB-19-85	"	"	"	"	"	"	System assets and investments
Ex. #	PUB-19-86	"	"	"	"	"	"	Asset Investment Process Improvements - roadmap
Ex. #	PUB-19-87	"	"	"	"	"	"	Asset Health Indices
Ex. #	PUB-19-88	"	"	"	"	"	"	System Average Interruption Duration Index (SAIDI) and System Average Interruption Frequency Index (SAIFI)

Ex. #	PUB-19-89	"	"	"	"	"	"	Implementation plan re Table of Concordance of Past Board Orders related to Asset Management and Asset Condition Assessments
Ex. #	PUB-19-90	"	"	"	"	"	"	Asset Condition Assessment Audit by Kinetrics
Ex. #	PUB-19-91	"	"	"	"	"	"	Asset Condition Assessment Audit by Kinetrics
Ex. #	PUB-19-92	"	"	"	"	"	"	Asset Condition Assessment Audit by Kinetrics
Ex. #	PUB-19-93	"	"	"	"	"	"	Asset Condition Assessment Audit by Kinetrics
Ex. #	PUB-19-94	"	"	"	"	"	"	Asset Condition Assessment Audit by Kinetrics - Power Transformers
Ex. #	PUB-19-95	"	"	"	"	"	"	Asset Condition Assessment Audit by Kinetrics - Power Transformers
Ex. #	PUB-19-96	"	"	"	"	"	"	Asset Condition Assessment Audit by Kinetrics - Transmission Steel Structures
Ex. #	PUB-19-97	"	"	"	"	"	"	Asset Condition Assessment Audit by Kinetrics - Transmission Conductors
Ex. #	PUB-19-98	"	"	"	"	"	"	Asset Condition Assessment Audit by Kinetrics - Data Availability
Ex. #	PUB-19-99	"	"	"	"	"	"	Asset Condition Assessment Audit by Kinetrics - Projected Flagged for Action Plan
Ex. #	PUB-19-100	"	"	"	"	"	"	Asset Condition Assessment Audit by Kinetrics - Condition Based Flagged for Action Plan
Ex. #	PUB-19-101	"	"	"	"	"	"	Age Availability data for all assets
Ex. #	PUB-19-102	"	"	"	"	"	"	Asset Condition Assessment - Flagged for Action
Ex. #	PUB-19-103	"	"	"	"	"	"	Asset Condition Assessment - Flagged for Action

Ex. #	PUB-19-104	"	"	"	"	"	"	Asset Condition Assessment - Results for Each Asset Category
Ex. #	PUB-19-105	"	"	"	"	"	"	Asset Condition Assessment - UG HV Oil Cables
Ex. #	PUB-19-106	"	"	"	"	"	"	Asset Condition Assessment - Conclusions and Recommendations
Ex. #	PUB-19-107	"	"	"	"	"	"	Asset Condition Assessment - Age Limiting Factor
Ex. #	PUB-19-108	"	"	"	"	"	"	Asset Condition Assessment - Station Breakers
Ex. #	PUB-19-109	"	"	"	"	"	"	HVDC Converter Station Assets
Ex. #	PUB-19-110	"	"	"	"	"	"	Asset Condition Assessment Scoring & Replacement Requirements
Ex. #	PUB-19-111	"	"	"	"	"	"	Asset Condition Assessment Scoring & Replacement Requirements
Ex. #	PUB-19-112	"	"	"	"	"	"	Asset Condition Assessment - projected footing replacements
Ex. #	PUB-19-113	"	"	"	"	"	"	Asset Condition Assessment - circuit breakers
Ex. #	PUB-19-114	"	"	"	"	"	"	Qualitative Condition Assessment Report
Ex. #	PUB-19-115	"	"	"	"	"	"	Manitoba Hydro Report for Slave Falls G.S. Powerhouse Mechanical Condition Assessment Report: Turbines & Generators
Ex. #	PUB-19-116	"	"	"	"	"	"	Manitoba Hydro Capital Project Justification
Ex. #	PUB-19-117	"	"	"	"	"	"	Electric Business Operational Capital 10 Year Forecast by Investment Category
Ex. #	PUB-19-118	"	"	"	"	"	"	Planning criteria - capacity hot spots

Ex. #	PUB-19-119	"	"	"	"	"	"	Capital Program budget
Ex. #	PUB-19-120	"	"	"	"	"	"	Distribution wood pole replacements
Ex. #	PUB-19-121	"	"	"	"	"	"	Skewing of typical useful life values
Ex. #	PUB-19-122	"	"	"	"	"	"	Capital Investment Justifications (CIJ)
Ex. #	PUB-19-123	"	"	"	"	"	"	Reduction of volitional capital expenditures to mitigate the rate impacts of Major Project costs
Ex. #	PUB-19-124	"	"	"	"	"	"	Customer preferences
Ex. #	PUB-19-125	"	"	"	"	"	"	2014 Residential Energy Use Survey (REUS)
Ex. #	PUB-19-126	"	"	"	"	"	"	Affordable Energy Program Annual Report
Ex. #	PUB-19-127	"	"	"	"	"	"	DSM measures - residential customers
Ex. #	PUB-19-128	"	"	"	"	"	"	Dunsky Energy Consulting Reports
Ex. #	PUB-19-129	"	"	"	"	"	"	Fuel Switching
Ex. #	PUB-19-130	"	"	"	"	"	"	LED street lighting rates
Ex. #	PUB-19-131	"	"	"	"	"	"	Marginal values - Rate design & DSM cost effectiveness evaluations
Ex. #	PUB-19-132	"	"	"	"	"	"	Additional General Consumers Revenue - rate increase
Ex. #	PUB-19-133	"	"	"	"	"	"	Calendar year hourly marginal cost study
Ex. #	PUB-19-134	"	"	"	"	"	"	Customer related charges from PCOSS18
Ex. #	PUB-19-135	"	"	"	"	"	"	Customer impacts - models & data

Ex. #	PUB-19-136	"	"	"	"	"	"	Rate design
Ex. #	PUB-19-137	"	"	"	"	"	"	Comparison of Class RCC Results
Ex. #	PUB-19-138	"	"	"	"	"	"	Bipole III reserve account
Ex. #	PUB-19-139	"	"	"	"	"	"	Bipole III reserve account
Ex. #	PUB-19-140	"	"	"	"	"	"	Regulatory Referral
Ex. #	PUB-19-141	"	"	"	"	"	"	Metering Transformer
Ex. #	PUB-19-142	"	"	"	"	"	"	PCOSS18
Ex. #	PUB-19-143	"	"	"	"	"	"	Interprovincial interconnections
Ex. #	PUB-19-144	"	"	"	"	"	"	AC Transmission Facilities
Ex. #	PUB-19-145	"	"	"	"	"	"	Other non-energy revenue
Ex. #	PUB-19-146	"	"	"	"	"	"	General Service Small - meters
Ex. #	PUB-19-147	"	"	"	"	"	"	C27 Service Drops
Ex. #	PUB-19-148	"	"	"	"	"	"	Revenue cost allocation
Ex. #	PUB-19-149	"	"	"	"	"	"	Cost of service and rate design for diesel rates
Ex. #	PUB-19-150	"	"	"	"	"	"	Allocation of common costs
Ex. #	PUB-19-151	"	"	"	"	"	"	Bill Comparisons
Ex. #	PUB-19-152	"	"	"	"	"	"	Bipole III reserve funds
Ex. #	PUB-19-153	"	"	"	"	"	"	MFRs and Application Updates

Ex. #	PUB-19-154	" " " " " " " PCOSS18 Electronic Model
Ex. #	PUB-19-155	" " " " " " " PCOSS18 Electronic Model
Ex. #	PUB-19-156	" " " " " " " PCOSS18 Electronic Model
Ex. #	PUB-19-157	" " " " " " " PCOSS18 Electronic Model
Ex. #	PUB-19-158	" " " " " " " PCOSS18 Electronic Model
Ex. #	PUB-19-159	" " " " " " " PCOSS18 Electronic Model, Operating Costs
Ex. #	PUB-20	PUB letter dated August 18, 2017 to Manitoba Hydro re Round 1 Information Requests
Ex. #	PUB-21	PUB letter re City of Winnipeg's Request to intervene - August 25, 2017
Ex. #	PUB-22	PUB letter dated August 25, 2017 re Intervener Budgets
Ex. #	PUB-23	PUB letter dated September 11, 2017 re Rule 13 Motion by Manitoba Hydro
Ex. #	PUB-24	PUB letter dated September 15, 2017 re GSS/GSM and KAP Request to Intervene and Intervener Budgets
Ex. #	PUB-25	PUB letter dated September 26, 2017 re Manitoba Hydro's Round 1 Information Requests Rule 13 Motion
Ex. #	PUB-26	Public Utilities Board to Manitoba Hydro - Round 2 Information Requests
Ex. #	PUB-26-1	" " " " " " " Schedule of regulatory deferral account balances
Ex. #	PUB-26-2	" " " " " " " Depreciation Expense
Ex. #	PUB-26-3	" " " " " " " Net present value of the proposed annualized rate increases
Ex. #	PUB-26-4	" " " " " " " Change management

Ex. #	PUB-26-5	"	"	"	"	"	"	Other expenses - previously in CWIP that are no longer providing future economic benefit
Ex. #	PUB-26-6	"	"	"	"	"	"	Voluntary Departure Program
Ex. #	PUB-26-7	"	"	"	"	"	"	OM&A Expenditures by cost element
Ex. #	PUB-26-8	"	"	"	"	"	"	Change in OM&A costs
Ex. #	PUB-26-9	"	"	"	"	"	"	Electric O&A
Ex. #	PUB-26-10	"	"	"	"	"	"	Mitigation measures
Ex. #	PUB-26-11	"	"	"	"	"	"	Total interest forecast to be capitalized by year through Keeyask full in-service
Ex. #	PUB-26-12	"	"	"	"	"	"	Conawapa expenditures
Ex. #	PUB-26-13	"	"	"	"	"	"	Manitoba Hydro debt
Ex. #	PUB-26-14	"	"	"	"	"	"	Forecast interest rates
Ex. #	PUB-26-15	"	"	"	"	"	"	Updates to 2014 Depreciation Study
Ex. #	PUB-26-16	"	"	"	"	"	"	Canada 30-year Bond yield, Manitoba 30 Year Bond yield
Ex. #	PUB-26-17	"	"	"	"	"	"	Debt management strategy
Ex. #	PUB-26-18	"	"	"	"	"	"	Restated scenario analyses - Bipole III
Ex. #	PUB-26-19	"	"	"	"	"	"	Credit rating agencies calculation of cash flow to capex ratio
Ex. #	PUB-26-20	"	"	"	"	"	"	Bipole III Reliability Project
Ex. #	PUB-26-21	"	"	"	"	"	"	KMPG recommended metrics

Ex. #	PUB-26-22	"	"	"	"	"	"	Capital Structure
Ex. #	PUB-26-23	"	"	"	"	"	"	Interest rate change scenarios
Ex. #	PUB-26-24	"	"	"	"	"	"	Cashflow to capex ratio
Ex. #	PUB-26-25	"	"	"	"	"	"	Corporate Strategic Plan
Ex. #	PUB-26-26	"	"	"	"	"	"	Alternative scenario IFF16 Update with interim based on a 32 month delay
Ex. #	PUB-26-27	"	"	"	"	"	"	Capital construction EFTs
Ex. #	PUB-26-28	"	"	"	"	"	"	PUB MFR 55 & 56 based on Appendix 3.4 and Appendix 3.7 scenario 3
Ex. #	PUB-26-29	"	"	"	"	"	"	Cash surplus beyond 2035
Ex. #	PUB-26-30	"	"	"	"	"	"	Forecast cash flow from Operations and capital expenditures
Ex. #	PUB-26-31	"	"	"	"	"	"	Debt Management - Free cash flow
Ex. #	PUB-26-32	"	"	"	"	"	"	Contracts that require newly constructed generation resources
Ex. #	PUB-26-33	"	"	"	"	"	"	Status update of Manitoba Hydro's implementation of BCG's suggestions to mitigate impacts of continuing with the completion of Bipole III and Keeyask
Ex. #	PUB-26-34	"	"	"	"	"	"	Load Forecast
Ex. #	PUB-26-35	"	"	"	"	"	"	Implementation of BCG's suggestions to address sourceable spending
Ex. #	PUB-26-36	"	"	"	"	"	"	Capacity

Ex. #	PUB-26-37	"	"	"	"	"	"	Hydraulic generation
Ex. #	PUB-26-38	"	"	"	"	"	"	Hydraulic generation
Ex. #	PUB-26-39	"	"	"	"	"	"	Key variable sensitivity impacts
Ex. #	PUB-26-40	"	"	"	"	"	"	Drought sensitivities
Ex. #	PUB-26-41	"	"	"	"	"	"	Comparison of the Annual Equity Ratio Variability
Ex. #	PUB-26-42	"	"	"	"	"	"	Deduct Capitalized Interest on Major Projects
Ex. #	PUB-26-43	"	"	"	"	"	"	Major New Generation and Transmission projects in CFO to Capex ratio
Ex. #	PUB-26-44	"	"	"	"	"	"	Minimum acceptable debt to equity ratio
Ex. #	PUB-26-45	"	"	"	"	"	"	Selkirk Generating Station
Ex. #	PUB-26-46	"	"	"	"	"	"	Dependable energy premiums and capacity premium
Ex. #	PUB-26-47	"	"	"	"	"	"	Long term Potential Large Industrial Load
Ex. #	PUB-26-48	"	"	"	"	"	"	Top Consumers Load forecast
Ex. #	PUB-26-49	"	"	"	"	"	"	Top Consumers Load forecast
Ex. #	PUB-26-50	"	"	"	"	"	"	Pipeline loads
Ex. #	PUB-26-51	"	"	"	"	"	"	Winter peak demand or dependable energy requirements
Ex. #	PUB-26-52	"	"	"	"	"	"	Electric heat rate design
Ex. #	PUB-26-53	"	"	"	"	"	"	DSM meetings - presentations made to external stakeholder group

Ex. #	PUB-26-54	"	"	"	"	"	"	Degree Day Heating (DDH) map of Manitoba
Ex. #	PUB-26-55	"	"	"	"	"	"	Annual incremental capital taxes and water rental fees from Keeyask
Ex. #	PUB-26-56	"	"	"	"	"	"	Electricity for space heating in Manitoba
Ex. #	PUB-26-57	"	"	"	"	"	"	Updated Generation and combined marginal values
Ex. #	PUB-26-58	"	"	"	"	"	"	2014 Residential Energy Use Survey (REUS)
Ex. #	PUB-26-59	"	"	"	"	"	"	Insulation upgrades under Affordable Energy Program or the Indigenous Power Smart Program
Ex. #	PUB-26-60	"	"	"	"	"	"	Directional change in economic impacts based on IFF-16
Ex. #	PUB-26-61	"	"	"	"	"	"	Residential customer data
Ex. #	PUB-26-62	"	"	"	"	"	"	Breakdown of CEF16 and CEF15
Ex. #	PUB-26-63	"	"	"	"	"	"	Project management of Keeyask and Bipole III - tendering
Ex. #	PUB-26-64	"	"	"	"	"	"	Keeyask Risk Registry
Ex. #	PUB-26-65	"	"	"	"	"	"	UMS Asset Management Gap Assessment Report - Findings
Ex. #	PUB-26-66	"	"	"	"	"	"	UMS Asset Management Gap Assessment Report - Findings
Ex. #	PUB-26-67	"	"	"	"	"	"	UMS Asset Management Gap Assessment Report - Findings
Ex. #	PUB-26-68	"	"	"	"	"	"	UMS Asset Management Gap Assessment Report - Findings
Ex. #	PUB-26-69	"	"	"	"	"	"	UMS Asset Management Gap Assessment Report - Findings
Ex. #	PUB-26-70	"	"	"	"	"	"	Corporate Risk Management Report - Infrastructure Risk

Ex. #	PUB-26-88	" " " " " " " Comparison of Class RCC Results
Ex. #	PUB-26-89	" " " " " " " PCOSS18
Ex. #	PUB-26-90	" " " " " " " PCOSS18
Ex. #	PUB-26-91	" " " " " " " Planned GILT
Ex. #	PUB-26-92	" " " " " " " Rate Design
Ex. #	PUB-26-93	" " " " " " " Rate Design
Ex. #	PUB-26-94	" " " " " " " Rate Design
Ex. #	PUB-27	PUB to all parties re Independent Expert Consultants Report Deadlines and Revised MGF Scope of Work - October 5, 2017
Ex. #	PUB-28	Business Council of Manitoba's Application to Review and Vary Public Utilities Board decision of August 25, 2017 - October 16, 2017
Ex. #	PUB-29	PUB Order 112/17 - Motions by Manitoba Hydro seeking confidential treatment of information in the 2017/18 and 2018/19 General Rate Application and Motion by the Consumers Coalition seeking access to document claimed as confidential
Ex. #	PUB-30	PUB to all parties re Independent Expert Consultants' Scope of Work - October 25, 2017
Ex. #	PUB-31	PUB Order 120/17 - An Application by Manitoba Hydro to Review and Vary Order 112/17
Ex. #	PUB-32	Public Utilities Board (PUB) to Assembly of Manitoba Chiefs (AMC) - Information Requests
Ex. #	PUB-32-1	" " " " " " " Annual income apply to on-reserve FN individuals/households
Ex. #	PUB-32-2	" " " " " " " Rate increase within bounds, view of maximum rate increase for non-lower income and non-FN
Ex. #	PUB-32-3	" " " " " " " Appropriate to reduce RCC for Residential class

Ex. #	PUB-32-4	" " " " " " "	Mr. Raphael's conclusion with statement of Mr. Orle in Interim Rate Request
Ex. #	PUB-33	PUB to Coalition Information requests	
Ex. #	PUB-33-1	PUB to Coalition (METSCO) IRs	Business Operations Capital interfering with threshold
Ex. #	PUB-33-2	" " " " " " "	Asset
Ex. #	PUB-33-3	" " " " " " "	transmission and generation asset renewal and system enhancement
Ex. #	PUB-33-4	" " " " " " "	Minimize capital expenditures
Ex. #	PUB-33-5	" " " " " " "	Transmission and Generation outages
Ex. #	PUB-33-6	" " " " " " "	defective equipment constituting third outage with other utilities
Ex. #	PUB-33-7	" " " " " " "	Planned renewal investments
Ex. #	PUB-33-8	" " " " " " "	Reliability Performance
Ex. #	PUB-33-9	PUB to Coalition (Simpson) IRs	Statistical analysis of energy poverty
Ex. #	PUB-33-10	" " " " " " "	unchanged debt effect on energy poverty
Ex. #	PUB-33-11	" " " " " " "	income information for AEP or rate assistance
Ex. #	PUB-33-12	" " " " " " "	fund recommended assistance
Ex. #	PUB-33-13	" " " " " " "	enhancements of AEP
Ex. #	PUB-33-14	PUB to Coalition (ECS Harper) IRs	updated Schedule 18 from Appendix 3.8
Ex. #	PUB-33-15	" " " " " " "	Gains and Losses on disposal of assets

Ex. #	PUB-33-16	" " " " " " "	Definitions of economic impacts
Ex. #	PUB-33-17	" " " " " " "	areas COSS evolving
Ex. #	PUB-33-18	" " " " " " "	MH Guidelines and Board of Commissions decision opinions
Ex. #	PUB-33-19	" " " " " " "	ratemarking proceedings on use of block rates
Ex. #	PUB-33-20	" " " " " " "	adjustments to generation marginal costs
Ex. #	PUB-33-21	" " " " " " "	LICO-125 targeted subset for rate assistance
Ex. #	PUB-33-22	" " " " " " "	merits and drawbacks on rate design options
Ex. #	PUB-33-23	" " " " " " "	research undertaken with Alternative Rate Designs Specifically
Ex. #	PUB-33-24	PUB to Coalition (Compton/Simpson) IRs	Percentage change in spending allocated
Ex. #	PUB-33-25	" " " " " " "	Direct effect of fall in demand by Industry Affected, leakage
Ex. #	PUB-33-26	" " " " " " "	Tax Revenue Impact
Ex. #	PUB-33-27	" " " " " " "	Carbon Pricing
Ex. #	PUB-33-28	PUB to Coalition (MPA) IRs	Metric v Free Cash Flow or Discretionary Free Cash Flow metric
Ex. #	PUB-33-29	" " " " " " "	Metric
Ex. #	PUB-33-30	" " " " " " "	Capital Structure odf 75:25
Ex. #	PUB-33-31	" " " " " " "	Drought fund
Ex. #	PUB-33-32	" " " " " " "	Economic efficiency
Ex. #	PUB-33-33	" " " " " " "	Debt Servicing ratemaking formula

Ex. #	PUB-34	Public Utilities Board (PUB) to Green Action Centre (GAC) Information Requests
Ex. #	PUB-34-1	" " " " " " Lower Income Rates
Ex. #	PUB-34-2	" " " " " " Electric Space Heating
Ex. #	PUB-34-3	" " " " " " Increase in energy rate
Ex. #	PUB-34-4	" " " " " " Recovery Rates
Ex. #	PUB-34-5	" " " " " " Revenue to Cost Coverage Ratios
Ex. #	PUB-34-6	" " " " " " Lost Revenue and Recovery Rates
Ex. #	PUB-34-7	" " " " " " Home Insulation Program and AEP
Ex. #	PUB-34-8	" " " " " " Customer Class or Classes Implement time of use rates apply
Ex. #	PUB-34-9	" " " " " " demand metered customers, and changes
Ex. #	PUB-34-10	" " " " " " Electric Utilities adopted residential rate structure
Ex. #	PUB-34-11	" " " " " " customers charges based
Ex. #	PUB-34-12	" " " " " " Calculation and Assumption additional payment
Ex. #	PUB-34-13	" " " " " " Calculation performed to support marginal costs
Ex. #	PUB-34-14	" " " " " " Rate Design
Ex. #	PUB-35	Public Utilities Board (PUB) to General Service Small/General Service Medium/Keystone Agricultural Producers (GSS-GSM-KAP) Information requests
Ex. #	PUB-35-1	" " " " " " LEI evidence analysis

Ex. #	PUB-35-2	" " " " " " " LEI Evidence
Ex. #	PUB-35-3	" " " " " " " LEI Evidence asset management
Ex. #	PUB-35-4	" " " " " " " LEI Evidence change in operating profits
Ex. #	PUB-35-5	" " " " " " " LEI Evidence MB Convenience store gross margins
Ex. #	PUB-35-6	" " " " " " " LEI Evidence reduction in grid reliability
Ex. #	PUB-35-7	" " " " " " " LEI Evidence gas generation alternatives
Ex. #	PUB-35-8	" " " " " " " LEI Evidence real discount rate
Ex. #	PUB-35-9	" " " " " " " LEI Evidence number of employees
Ex. #	PUB-35-10	" " " " " " " LEI Evidence Crown Corporations
Ex. #	PUB-35-11	" " " " " " " LEI Evidence escalated rate in other jurisdictions
Ex. #	PUB-35-12	" " " " " " " LEI Evidence IMPLAN
Ex. #	PUB-35-13	" " " " " " " LEI Evidence economic impacts
Ex. #	PUB-35-14	" " " " " " " LEI Evidence Economic Impacts
Ex. #	PUB-35-15	" " " " " " " LEI Evidence Sector exomonic impacts
Ex. #	PUB-35-16	" " " " " " " LEI Evidence Sector exomonic impacts
Ex. #	PUB-35-17	" " " " " " " LEI Evidence Key Performance Indicator Analysis
Ex. #	PUB-36	Public Utilities Board (PUB) to Manitoba Industrial Power Users Group (MIPUG) Information Requests (1-17)
Ex. #	PUB-36-1	" " " " " " " DSM High Keeyask scenario

Ex. #	PUB-36-2	" " " " " " " US and Saskatchewan
Ex. #	PUB-36-3	" " " " " " " Marginal Value
Ex. #	PUB-36-4	" " " " " " " Historical RCC
Ex. #	PUB-36-5	" " " " " " " COS Methodology
Ex. #	PUB-36-6	" " " " " " " Revenue Loss
Ex. #	PUB-36-7	" " " " " " " Time of use Rate
Ex. #	PUB-36-8	" " " " " " " financial reporting
Ex. #	PUB-36-9	" " " " " " " Peer Canadian hydroelectric generation companies
Ex. #	PUB-36-10	" " " " " " " revise debt terming strategy
Ex. #	PUB-36-11	" " " " " " " MIPUG contention O&A
Ex. #	PUB-36-12	" " " " " " " Provincially Owned Utilities
Ex. #	PUB-36-13	" " " " " " " Proposal to recognized gain
Ex. #	PUB-36-14	" " " " " " " Minimum Retained Earning Targe
Ex. #	PUB-36-15	" " " " " " " define rate shock
Ex. #	PUB-36-16	" " " " " " " deferral in charges
Ex. #	PUB-36-17	" " " " " " " rate trajectory
Ex. #	PUB-37	Public Utilities Board (PUB) - City of Winnipeg (COW) Information Requests
Ex. #	PUB-37-1	" " " " " " " rate increase over 10 years, water rates, sewer rates, basic

Ex. #	PUB-37-2	" " " " " " " Markowsky Evidence
Ex. #	PUB-38	Public Utilities Board (PUB) - Daymark Energy Advisors Information Requests
Ex. #	PUB-38-CSI-1	" " " " " " " Export
Ex. #	PUB-38-CSI-2	" " " " " " " Export
Ex. #	PUB-38-1	" " " " " " " Export Revenue, Minn Hub or MHEB Hub
Ex. #	PUB-38-2	" " " " " " " Export Revenue, Minnesota Power
Ex. #	PUB-38-3	" " " " " " " Export Revenue, Northern States Power
Ex. #	PUB-38-4	" " " " " " " Export Revenue, Minnesota and Wisconsin's Renewable Portfolio Standards
Ex. #	PUB-38-5	" " " " " " " Export Revenue, MISO forward capacity market
Ex. #	PUB-38-6	" " " " " " " Export Revenue, nuclear plants in Minnesota
Ex. #	PUB-38-7	" " " " " " " Export Revenue, actual forecast prices
Ex. #	PUB-38-8	" " " " " " " Export Revenue, source of actual forecast
Ex. #	PUB-38-9	" " " " " " " Export Revenue, natural gas forecasts
Ex. #	PUB-38-10	" " " " " " " Export Revenue, pricing locations
Ex. #	PUB-38-11	" " " " " " " Export Revenue, adjustments of forecasters Minn Hub appropriate
Ex. #	PUB-38-12	" " " " " " " Export Revenue, surplus dependable energy opportunity energy
Ex. #	PUB-38-13	" " " " " " " Export Revenue, energy premium
Ex. #	PUB-38-14	" " " " " " " Export Revenue, natural gas price forecasts

Ex. #	PUB-38-15	"	"	"	"	"	"	Export Revenue, revenue forecast carryover
Ex. #	PUB-38-16	"	"	"	"	"	"	Load Forecast, Top customers load forecast
Ex. #	PUB-38-17	"	"	"	"	"	"	Load Forecast, methodology changes
Ex. #	PUB-38-18	"	"	"	"	"	"	Load Forecast, periodfs and secotrs forecasts
Ex. #	PUB-38-19	"	"	"	"	"	"	Load Forecast, lagged electricity price GSL, non-lagged GSS/GSM
Ex. #	PUB-38-20	"	"	"	"	"	"	Load Forecast, Top Customers to General Service Mass Market
Ex. #	PUB-38-21	"	"	"	"	"	"	Load Forecast, forecasting monthly peaks
Ex. #	PUB-38-22	"	"	"	"	"	"	Load Forecast, gas to electricity prices Residential forecast
Ex. #	PUB-38-23	"	"	"	"	"	"	Load Forecast, population forecasting
Ex. #	PUB-38-24	"	"	"	"	"	"	Load Forecast, price elasticity estimates
Ex. #	PUB-38-25	"	"	"	"	"	"	Load Forecast, alternative load forecast scenarios
Ex. #	PUB-38-26	"	"	"	"	"	"	Load Forecast, load forecast accuracy
Ex. #	PUB-38-27	"	"	"	"	"	"	Load Forecast, impact of load forecast using lower CDD and HDD coefficients
Ex. #	PUB-38-28	"	"	"	"	"	"	Load Forecast, normal weather
Ex. #	PUB-38-29	"	"	"	"	"	"	Load Forecast, DSM in load forecast problematic
Ex. #	PUB-38-30	"	"	"	"	"	"	Load Forecast, Load forecast methodologies reasonable and appropriate
Ex. #	PUB-38-31	"	"	"	"	"	"	Load Forecast, Potential Large Industries load
Ex. #	PUB-38-32	"	"	"	"	"	"	Load Forecast, in-come, GDP, population

Ex. #	PUB-38-33	" " " " " " " Load Forecast, blended GDP variarle in GSMM and Top Customer forecasts
Ex. #	PUB-38-34	" " " " " " " Load Forecast, estimate transmission and distribution losses
Ex. #	PUB-39	Public Utilities Board - Dr. Yatchew Information Requests
Ex. #	PUB-39-1	" " " " " " " Oil and Natural Gas Market and Exports
Ex. #	PUB-39-2	" " " " " " " Grid Parity
Ex. #	PUB-39-3	" " " " " " " Provincial Energy Intensity Trends
Ex. #	PUB-39-4	" " " " " " " Cost of living and wages in Manitoba vs. other Provinces
Ex. #	PUB-39-5	" " " " " " " long term electricity demand growth
Ex. #	PUB-39-6	" " " " " " " efficiencies to increasing rates
Ex. #	PUB-39-7	" " " " " " " Energy Poverty
Ex. #	PUB-39-8	" " " " " " " Market Snapshot: Fuel Poverty Across Canada
Ex. #	PUB-39-9	" " " " " " " Rate Shock in rate trajevtory
Ex. #	PUB-39-10	" " " " " " " Carbon Leakage Problem
Ex. #	PUB-39-11	" " " " " " " Effect of Proposed Hydro Rate Increase on MB Economy
Ex. #	PUB-40	Public Utilities Board to W. Gardner re: MGF Project Extension Request - November 29, 2017
Ex. #	PUB-41	Public Utilities Board Letter to all parties re Rule 13 Motion and CSI in Daymarks Report - November 30, 2017
Ex. #	PUB-42	Board Counsel's Book of Documents
Ex. #	PUB-42-1	" " " " " " " Volume 1 - Corporate Overview

Ex. #	PUB-42-2	" " " " " " " Volume 2 - Financial Targets
Ex. #	PUB-42-3	" " " " " " " Volume 3 - Credit and Debt and Financial Expenses
Ex. #	PUB-42-4	" " " " " " " Volume 4- Payment, Depreciation, Load Forecast
Ex. #	PUB-42-5	" " " " " " " Volume 5 - Cost of Service and Rate Design
Ex. #	PUB-42-5-1	" " " " " " " Summary of Approved August 1, 2017 Rates
Ex. #	PUB-42-6	" " " " " " " Volume 6 - Major New Capital Projects
Ex. #	PUB-43	PUB letter to BCoM re Budget Variance - December 5, 2017
Ex. #	PUB-44	PUB letter to all parties re Motion 13 Moodys Report - December 5, 2017
Ex. #	PUB-45	PUB letter to all parties re Motion 13 MGF Report Redactions - December 19, 2017
Ex. #	PUB-46	Public Utilities Board to MGF - Information Requests
Ex. #	PUB-46-1	" " " " " " " Productivity in original GCC
Ex. #	PUB-46-2	" " " " " " " Construction Management Methods
Ex. #	PUB-46-3	" " " " " " " Aboriginal Labour Availability
Ex. #	PUB-46-4	" " " " " " " Trends and Delay Estimate
Ex. #	PUB-46-5	" " " " " " " risk related to geotechnical issues
Ex. #	PUB-46-6	" " " " " " " management system for developing cost estimates
Ex. #	PUB-46-7	" " " " " " " early contractor involvement
Ex. #	PUB-46-8	" " " " " " " BBC Contract

Ex. #	PUB-46-9	"	"	"	"	"	Concrete Productivity Factor
Ex. #	PUB-46-10	"	"	"	"	"	contract Management and cost control system
Ex. #	PUB-46-11	"	"	"	"	"	foreman to craft labour
Ex. #	PUB-46-12	"	"	"	"	"	self performing contractor
Ex. #	PUB-46-13	"	"	"	"	"	mitigation measures
Ex. #	PUB-46-14	"	"	"	"	"	Order of Magnitude Estimate Range
Ex. #	PUB-46-15	"	"	"	"	"	heightened levels of risk and recommend risk mitigation
Ex. #	PUB-46-16	"	"	"	"	"	concrete and earthworks productivity
Ex. #	PUB-46-17	"	"	"	"	"	KCB Historicial cooperative unit price
Ex. #	PUB-46-18	"	"	"	"	"	P75 contingency
Ex. #	PUB-46-19	"	"	"	"	"	Basis of Estimate
Ex. #	PUB-46-20	"	"	"	"	"	Scope of work conclusion of forecast completion costs
Ex. #	PUB-46-21	"	"	"	"	"	Scope of Work Conclusion schedule estimates
Ex. #	PUB-46-22	"	"	"	"	"	Manitoab Minnesota Transmission Project
Ex. #	PUB-46-23	"	"	"	"	"	Bipole III applied to Manitoba - Minnestora Transmission
Ex. #	PUB-46-24	"	"	"	"	"	page 132 higher than whose costs
Ex. #	PUB-46-25	"	"	"	"	"	Great Northern Tramission Line
Ex. #	PUB-47	Public Utilities Board to Daymark Energy Advisors (Saskpower) - Information Requests					

Ex. #	PUB-47-1	" " " " "	35- contract revenues from 1 day delay
Ex. #	PUB-47-2	" " " " "	36- Facilities Contruction Agreement - in-service date
Ex. #	PUB-47-3	" " " " "	37 - MH 2016 Sales Evaluation
Ex. #	PUB-47-4	" " " " "	CSI-3 - Saskpower Report Page 23
Ex. #	PUB-47-5	" " " " "	CSI-4 - Saskpower Report Page 24
Ex. #	PUB-48		PUB letter to all partires re: Rule 13 Motion CSI in Daymark Saskpower Report dated January 3, 2018
Ex. #	PUB-49		PUB letter to Consumers Coalition re Public Presentations dated January 5, 2018
Ex. #	PUB-50		PUB-MGF (KCB) Information Requests
Ex. #	PUB-50-1	" " " " "	PUB-46-5
Ex. #	PUB-50-2	" " " " "	PUB-46-6
Ex. #	PUB-50-3	" " " " "	PUB-46-7
Ex. #	PUB-50-4	" " " " "	PUB-46-8
Ex. #	PUB-50-5	" " " " "	PUB-46-17
Ex. #	PUB-51		PUB letter to all partires re: Rul 13 Motionn re CSI in MGF Rebuttal



**EXHIBIT LIST FOR
MANITOBA HYDRO
2017/18 & 2018/19 General Rate Application**

February 16, 2018

Assembly of Manitoba Chiefs (AMC) Exhibits

Ex. #	AMC-1	Assembly of Manitoba Chiefs letter re Manitoba Hydro's Interim Rate Request dated July 14, 2017	
Ex. #	AMC-2	Assembly of Manitoba Chiefs' Budget Submission	
Ex. #	AMC-2-1	Attachment 1 - Issues List	
Ex. #	AMC-3	Assembly of Manitoba Chiefs' Reply to Manitoba Hydro's Comments on Proposed Intervener Budgets - July 24, 2017	
Ex. #	AMC-3-1	CV of Philip Raphals	
Ex. #	AMC-4	Assembly of Manitoba Chiefs (AMC) to Manitoba Hydro (MH) - Round 1 Information Requests	
Ex. #	AMC-4-1	AMC to MH - Round 1 lrs	Rate Increase - Customer Impacts - Residential Electric Customers
Ex. #	AMC-4-2	" " " " " "	Rate Increase - Customer Impacts - General Service Customers
Ex. #	AMC-4-3	" " " " " "	Cumulative number of participating customers in First Nation Power Smart Program
Ex. #	AMC-4-4	" " " " " "	Program enhancements - First Nations households affected by energy poverty

Ex. #	AMC-4-5	"	"	"	"	"	"	Indigenous & Northern Affairs Canada (INAC) - April 5, 2016 letter re jurisdiction over Manitoba Hydro Rates
Ex. #	AMC-4-6	"	"	"	"	"	"	2017 Residential Energy Use Survey (REUS)
Ex. #	AMC-4-7	"	"	"	"	"	"	Bad debts expenses for electricity
Ex. #	AMC-4-8	"	"	"	"	"	"	Existing bill affordability programs for low-income customers
Ex. #	AMC-4-9	"	"	"	"	"	"	Estimates of Electricity costs by INAC
Ex. #	AMC-4-10	"	"	"	"	"	"	Affordable Energy Program - First Nations' participation
Ex. #	AMC-4-11	"	"	"	"	"	"	Bill Affordability - PRA report
Ex. #	AMC-4-12	"	"	"	"	"	"	Energy Poverty
Ex. #	AMC-4-13	"	"	"	"	"	"	Energy Poverty
Ex. #	AMC-4-14	"	"	"	"	"	"	Proposal to direct a portion of incremental capital taxes & water rental fees - Keeyask Project
Ex. #	AMC-4-15	"	"	"	"	"	"	Status of Manitoba Hydro
Ex. #	AMC-4-16	"	"	"	"	"	"	Non-rate programs/interventions offered by Manitoba Hydro
Ex. #	AMC-4-17	"	"	"	"	"	"	Neighbours Helping Neighbours
Ex. #	AMC-4-18	"	"	"	"	"	"	Results of Collaborative Process - effectiveness for on-reserve First Nations households
Ex. #	AMC-4-19	"	"	"	"	"	"	Equivalent data for MH rate increases in constant (inflation-adjusted) dollars

Ex. #	AMC-4-20	"	"	"	"	"	"	Results of Collaborative Process - Profile of MH customers
Ex. #	AMC-4-21	"	"	"	"	"	"	Percent of on-reserve First Nations households sampled
Ex. #	AMC-4-22	"	"	"	"	"	"	Factors affecting energy consumption - analysis for on-reserve First Nations households
Ex. #	AMC-4-23	"	"	"	"	"	"	Bill affordability - Electricity consumption
Ex. #	AMC-4-24	"	"	"	"	"	"	Agreements with INAC establishing the "Social Process"
Ex. #	AMC-4-25	"	"	"	"	"	"	EIA program in paying utility bills
Ex. #	AMC-4-26	"	"	"	"	"	"	Latitude and average annual heating degree days for each First Nations community
Ex. #	AMC-4-27	"	"	"	"	"	"	Status of housing in First Nations communities
Ex. #	AMC-4-28	"	"	"	"	"	"	Factors in energy poverty and arrears among First Nations
Ex. #	AMC-4-29	"	"	"	"	"	"	Arrears in First Nations communities - Administrative (short-term) issues
Ex. #	AMC-4-30	"	"	"	"	"	"	Power Smart First Nations Program
Ex. #	AMC-4-31	"	"	"	"	"	"	Estimated impact of potential rate increases on customers
Ex. #	AMC-4-32	"	"	"	"	"	"	Household incomes on First Nations reserves
Ex. #	AMC-4-33	"	"	"	"	"	"	Excel versions of data used for Figures 7 & 8 of the PRA Report
Ex. #	AMC-4-34	"	"	"	"	"	"	Excel versions of data used on the impact of rate increases on energy burdens experiend by energy-poor and non-energy poor households

Ex. #	AMC-4-35	"	"	"	"	"	"	Impact of rate increase upon the proportion of LICO-125 households
Ex. #	AMC-4-36	"	"	"	"	"	"	Proportion of LICO-125 households with energy burdens exceeding 6%
Ex. #	AMC-4-37	"	"	"	"	"	"	Copies of the External Review of the AEP by Dunsky and Affordable Energy Program & Neighbours Helping Neighbours by Galbraith
Ex. #	AMC-4-38	"	"	"	"	"	"	Benefits and barriers to enrollment in the AEP
Ex. #	AMC-4-39	"	"	"	"	"	"	Current uptake of bill affordability programming
Ex. #	AMC-4-40	"	"	"	"	"	"	AEP program's current offering for electric baseboard heating customers
Ex. #	AMC-4-41	"	"	"	"	"	"	Percentage of on-reserve First Nations households considered as tenants
Ex. #	AMC-4-42	"	"	"	"	"	"	Reports by Ross (2014) and Kuczeck, Morrison, Barnlund, Chard & Galbraith (2015)
Ex. #	AMC-4-43	"	"	"	"	"	"	Estimated impact of bill affordability options on MH and its customers
Ex. #	AMC-4-44	"	"	"	"	"	"	Bill affordability impact on Manitoba Hydro revenues
Ex. #	AMC-4-45	"	"	"	"	"	"	Bill affordability impact on Manitoba Hydro revenues
Ex. #	AMC-4-46	"	"	"	"	"	"	Bill affordability impact on Manitoba Hydro revenues
Ex. #	AMC-4-47	"	"	"	"	"	"	Fixed Credit Approach
Ex. #	AMC-4-48	"	"	"	"	"	"	Conservation Rates - Distribution of monthly billed kWh
Ex. #	AMC-4-49	"	"	"	"	"	"	Conservation Rates - Distribution of monthly billed kWh

Ex. #	AMC-4-50	"	"	"	"	"	"	Energy usage in MKO communities
Ex. #	AMC-4-51	"	"	"	"	"	"	Percentage of electrically heated on-reserve First Nations households
Ex. #	AMC-4-52	"	"	"	"	"	"	Alternative Rate Design Proposal
Ex. #	AMC-4-53	"	"	"	"	"	"	Diesel General Service rate increase
Ex. #	AMC-4-54	"	"	"	"	"	"	Energy-efficiency & weatherization initiatives
Ex. #	AMC-4-55	"	"	"	"	"	"	Fair & equitable rates
Ex. #	AMC-4-56	"	"	"	"	"	"	General ratemaking principles - marginal costs
Ex. #	AMC-5	Letter by Assembly of Manitoba Chiefs in response to Manitoba Hydro's August 2, 2017 letter re Information Requests - dated August 4, 2017						
Ex. #	AMC-6	Assembly of Manitoba Chiefs (AMC) to Manitoba Hydro (MH) - Round 2 Information Requests						
Ex. #	AMC-6-1	"	"	"	"	"	"	data on-reserve FN Residential customers only
Ex. #	AMC-6-2	"	"	"	"	"	"	table for each FN in province for 2016
Ex. #	AMC-6-3	"	"	"	"	"	"	impediments to using Indian Status as a criterion
Ex. #	AMC-6-4	"	"	"	"	"	"	tax treatment available to person with Indian Status under Indian Act
Ex. #	AMC-6-5	"	"	"	"	"	"	customers participating in FN Power Smart Program
Ex. #	AMC-6-6	"	"	"	"	"	"	responses of customers who are resident on FN reserves
Ex. #	AMC-6-7	"	"	"	"	"	"	clarify insulation upgrades, commercial Geothermal Program, Community Geothermal Program

Ex. #	AMC-6-8	"	"	"	"	"	"	AEP program available to Indigenous ratepayers
Ex. #	AMC-6-9	"	"	"	"	"	"	General Service customers in Indigenous communities, or covered by Indigenous or FN PSP
Ex. #	AMC-6-10	"	"	"	"	"	"	FN home meet all criteria to be eligible for insulation upgrades
Ex. #	AMC-6-11	"	"	"	"	"	"	Non-Electric apply to all 3 zones (urban, rural, Indigenous)
Ex. #	AMC-6-12	"	"	"	"	"	"	table for FN participants only
Ex. #	AMC-6-13	"	"	"	"	"	"	MH deciding in what order to offer programs to FN Communities
Ex. #	AMC-6-14	"	"	"	"	"	"	contribution from Band Council for paying MH Bills vs. non assistance
Ex. #	AMC-6-15	"	"	"	"	"	"	1/3 of all on-reserve FN households, spend 10% or more of total income on <u>energy</u>
Ex. #	AMC-6-16	"	"	"	"	"	"	explain FN owned service and infrastructure
Ex. #	AMC-6-17	"	"	"	"	"	"	simulation model used by PRA, how it models household on and off reserve
Ex. #	AMC-6-18	"	"	"	"	"	"	updated tables of PRA reports
Ex. #	AMC-6-19	"	"	"	"	"	"	members of Bill Affordability Working Group, other than MH and <u>Government entities</u>
Ex. #	AMC-6-20	"	"	"	"	"	"	weather-adjusted electricity twice as great for FN residential customers
Ex. #	AMC-6-21	"	"	"	"	"	"	FN in province, repairs
Ex. #	AMC-6-22	"	"	"	"	"	"	Indigenous Energy Advisors for each FN community
Ex. #	AMC-6-23	"	"	"	"	"	"	revisde table, PRA report
Ex. #	AMC-6-24	"	"	"	"	"	"	household income on FN reserve grow rate

Ex. #	AMC-6-25	"	"	"	"	"	"	formuals, of calculations used to produce figures in PRA figures 7-8
Ex. #	AMC-6-26	"	"	"	"	"	"	formuals, of calculations used to produce figures in PRA figures 9-10
Ex. #	AMC-6-27	"	"	"	"	"	"	updated Figure 1 account application of rate increase to fixed change
Ex. #	AMC-6-28	"	"	"	"	"	"	update Tables 1 and 2, application of rate increase to fixed change
Ex. #	AMC-6-29	"	"	"	"	"	"	lost revenues to MH various affordability measures
Ex. #	AMC-6-30	"	"	"	"	"	"	rate impacts on non-energy-poor residential customers
Ex. #	AMC-6-31	"	"	"	"	"	"	MH to access data on customer-specific basis all on-reserve FN households
Ex. #	AMC-6-32	"	"	"	"	"	"	table for each FN in province regarding if gas is available
Ex. #	AMC-6-33	"	"	"	"	"	"	version of Figure 5 from on-reserve customers only
Ex. #	AMC-7	Implications of Manitoba Hydro's General Rate Application by Philip Raphals Executive Director of Helios Centre						
Ex. #	AMC-7-1	Implications of Manitoba Hydro's General Rate Application by Philip Raphals Executive Director of Helios Centre Revised						
Ex. #	AMC-8	AMC to GAC Information Requests						
Ex. #	AMC-8-1	"	"	"	"	"	"	Annual Income
Ex. #	AMC-8-2	"	"	"	"	"	"	Paul Chernick Testimony
Ex. #	AMC-9	Truth and Reconciliation Commision of Canada - Call to Action						
Ex. #	AMC-10	United Nations Declaration of Rights of Indigenous Peoples						
Ex. #	AMC-11	AMC to MH - Executive Panel Written Interrogation						

Ex. #	AMC-11-1	" " " " " "	Action Plan/ Written Policy includes TRC Calls to Action
Ex. #	AMC-11-2	" " " " " "	Plan
Ex. #	AMC-11-3	" " " " " "	MH Implement TRC Call to Action
Ex. #	AMC-11-4	" " " " " "	redress Indigenous Peoples in accordance with UNDRIP
Ex. #	AMC-11-5	" " " " " "	budgetary impact of plans on Financial Position
Ex. #	AMC-12	Book of Documents - Revenue Requirement Panel	
Ex. #	AMC-13	Senate Report On-Reserve Housing and Infrastructure	
Ex. #	AMC-14	Philip Raphals Presentation	
Ex. #	AMC-15	Senate Interim Report On-Reserve Housing Chanllanges and Scuesses	
Ex. #	AMC-16	AMC letter to all parties re Legal Argument - January 29, 2018	
Ex. #	AMC-17	AMC Undertaking 71 - Electrical Power and Control Act Newfoundland and Labrador	
Ex. #	AMC-18	AMC Undertaking 70 - Ontario Energy and Poverty Tax Credit	
Ex. #	AMC-19	AMC Undertaking 69 - First Nation Bill Assistance	
Ex. #	AMC-20	Book of Authorities - Closing Submissions	
Ex. #	AMC-21	AMC Final Written Submissions	
Ex. #	AMC-22	AMC Final Submissions - Presentation	



**EXHIBIT LIST FOR
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Business Council of Manitoba (BCoM) Exhibits

Ex. #	BCoM-1	Submission re Manitoba Hydro's Interim Rate Request (email dated July 12, 2017)						
Ex. #	BCoM-2	Business Council of Manitoba's Intervener Budget Submission						
Ex. #	BCoM-3	Business Council of Manitoba's letter to PUB re Issues and Expert Evidence - September 15, 2017						
Ex. #	BCoM-4	Business Council of Manitoba's Review and Vary Application re Intervener Budget Decision - September 25, 2017						
Ex. #	BCoM-5	BCM to Coalition (Simpson/Compton)						
Ex. #	BCoM-5-1	"	"	"	"	"	"	Risk of credit downgrade of MH by DBRS
Ex. #	BCoM-5-2	"	"	"	"	"	"	Risk of Credit downgrade of MH by Moodys
Ex. #	BCoM-5-3	"	"	"	"	"	"	Risk of Credit downgrade of MH by Standard & Poor's
Ex. #	BCoM-5-4	"	"	"	"	"	"	Risk of Credit downgrade of MB by DBRS
Ex. #	BCoM-5-5	"	"	"	"	"	"	Risk of Credit downgrade of MB by Moodys
Ex. #	BCoM-5-6	"	"	"	"	"	"	Risk of Credit downgrade of MB by Standard & Poor's

Ex. #	BCoM-5-7	"	"	"	"	"	"	Credit Rating Reports
Ex. #	BCoM-5-8	"	"	"	"	"	"	DBRS statement
Ex. #	BCoM-5-9	"	"	"	"	"	"	Recover costs Increased rates
Ex. #	BCoM-5-10	"	"	"	"	"	"	Debt financial burden re: cash flow
Ex. #	BCoM-5-11	"	"	"	"	"	"	Self Supporting Status
Ex. #	BCoM-5-12	"	"	"	"	"	"	Standard and Poor statement
Ex. #	BCoM-5-13	"	"	"	"	"	"	MH debt load
Ex. #	BCoM-5-14	"	"	"	"	"	"	Gov support Utility in event of financial distress
Ex. #	BCoM-5-15	"	"	"	"	"	"	Standard and Poor
Ex. #	BCoM-5-16	"	"	"	"	"	"	MH credit rating agencies
Ex. #	BCoM-5-17	"	"	"	"	"	"	credit rating downgrades, on rate increase
Ex. #	BCoM-5-18	"	"	"	"	"	"	Borrowing costs affect credit rating downtrades
Ex. #	BCoM-5-19	"	"	"	"	"	"	DBRS Combining MH debt with MB debt
Ex. #	BCoM-5-20	"	"	"	"	"	"	Moody combining debt
Ex. #	BCoM-5-21	"	"	"	"	"	"	Sel supporting status contributing factor to downgrade
Ex. #	BCoM-5-22	"	"	"	"	"	"	Self Supporting Status increased borrowing costs
Ex. #	BCoM-5-23	"	"	"	"	"	"	Debt/Equity ratio target

Ex. #	BCoM-5-24	"	"	"	"	"	"	payind debt down and increasing rates
Ex. #	BCoM-5-25	"	"	"	"	"	"	Debt Situation
Ex. #	BCoM-5-26	"	"	"	"	"	"	Cash flow
Ex. #	BCoM-5-27	"	"	"	"	"	"	Cash flow change over 10 years
Ex. #	BCoM-5-28	"	"	"	"	"	"	Cash Flow with credit agencies
Ex. #	BCoM-5-29	"	"	"	"	"	"	Increase in borrowing costs
Ex. #	BCoM-5-30	"	"	"	"	"	"	Interest rate increase on cash flow
Ex. #	BCoM-5-31	"	"	"	"	"	"	Debt/Equity ratio compare to other utilities
Ex. #	BCoM-5-32	"	"	"	"	"	"	Rate Increase on Economy
Ex. #	BCoM-5-33	"	"	"	"	"	"	Job reduction
Ex. #	BCoM-5-34	"	"	"	"	"	"	economy and job impact on credit rating downgrade
Ex. #	BCoM-6	BCM to MIPUG (1-32) Information Requests						
Ex. #	BCoM-6-1	"	"	"	"	"	"	risk of credit downgrade
Ex. #	BCoM-6-2	"	"	"	"	"	"	risk of credit downgrade
Ex. #	BCoM-6-3	"	"	"	"	"	"	risk of credit downgrade
Ex. #	BCoM-6-4	"	"	"	"	"	"	risk of credit downgrade
Ex. #	BCoM-6-5	"	"	"	"	"	"	risk of credit downgrade

Ex. #	BCoM-6-24	" " " " " "	Credit ratings
Ex. #	BCoM-6-25	" " " " " "	Borrowing costs affect credit rating downtrades
Ex. #	BCoM-6-26	" " " " " "	Credit Rating downgrades
Ex. #	BCoM-6-27	" " " " " "	Debt for credit rating
Ex. #	BCoM-6-28	" " " " " "	Debt for credit rating
Ex. #	BCoM-6-29	" " " " " "	Debt/Equity ratio target
Ex. #	BCoM-6-30	" " " " " "	Debt on structure and operations
Ex. #	BCoM-6-31	" " " " " "	Financial Indicators monitored
Ex. #	BCoM-6-32	" " " " " "	Debt payment and Increasing rate
Ex. #	BCoM-7	Business Council of Manitoba letter to PUB dated November 23, 2017	
Ex. #	BCoM-8	Business Council of Manitoba - Dr. Yatchew - Inforamtion Requests	
Ex. #	BCoM-8-1	" " " " " "	MH Future earnings
Ex. #	BCoM-8-2	" " " " " "	Electric Operations Projected Operating Statement
Ex. #	BCoM-8-3	" " " " " "	reduced net earnings result in bond raters concluding MH no longer self-supporting
Ex. #	BCoM-8-4	" " " " " "	level of reduced net earnings, result in reduction of bond rating
Ex. #	BCoM-8-5	" " " " " "	downgrade of credit rating of Prov or utilities relates to interest rates or borrowing costs
Ex. #	BCoM-8-6	" " " " " "	increase borrowing costs exposed from ineterest rate

Ex. #	BCoM-8-7	"	"	"	"	"	"	borrowing costs exposed absolute dollar cost prespective credit downgrade
Ex. #	BCoM-8-8	"	"	"	"	"	"	macroeconomic prespective expected impact on MH or Prov MB credit downgrade
Ex. #	BCoM-8-9	"	"	"	"	"	"	risk of credit downgrade for MH and MB
Ex. #	BCoM-8-10	"	"	"	"	"	"	credit downgrade increased or decreased

**EXHIBIT LIST FOR
MANITOBA HYDRO
2017/18 & 2018/19 General Rate Application**

February 16, 2018

CONSUMER ASSOCIATION OF CANADA (MANITOBA) and WINNIPEG HARVEST (COALITION)

Ex. #	CC-1	Consumer Coalition letter dated March 28, 2017 re Manitoba Hydro's March 24, 2017 letter
Ex. #	CC-2	Minimum Filing Requirements (MFRs) of the Consumer Coalition
Ex. #	CC-3	Coalition Letter re Manitoba Hydro's Interim Rate Application dated May 26, 2017
Ex. #	CC-3-1	Appendix A - An Interim Rate Addition Table
Ex. #	CC-3-2	Appendix B - Interim Rate Request
Ex. #	CC-4	"Rate Shock and Malleable Metrics: Avoiding an Unreasonable Rush to Judgment" - Submission of the Consumers Coalition re Interim Rate Request
Ex. #	CC-4-1	Revised July 17, 2017 - "Rate Shock and Malleable Metrics: Avoiding an Unreasonable Rush to Judgment" - Submission of the Consumers Coalition re Interim Rate Request
Ex. #	CC-4-2	Revised July 18, 2017 - "Rate Shock and Malleable Metrics: Avoiding an Unreasonable Rush to Judgment" - Submission of the Consumers Coalition re Interim Rate Request
Ex. #	CC-5	Budget Submission dated July 14, 2017
Ex. #	CC-5-1	Attachment A - Draft Budget and Workplan
Ex. #	CC-5-2	Attachment B - Issues List

Ex. #	CC-6	"Avoiding a Rate Shock Rush to Judgement" - Presentation by the Consumer Coalition - July 18, 2017
Ex. #	CC-6-1	Revised "Avoiding a Rate Shock Rush to Judgement" - Presentation by the Consumer Coalition - July 18, 2017
Ex. #	CC-7	Coalition's letter dated July 18, 2017 re Revised Interim Rate Submission
Ex. #	CC-8	Coalition re COSS Model - July 20, 2017
Ex. #	CC-9	Coalition's response to Manitoba Hydro's comments on Intervener Budgets - July 24, 2017
Ex. #	CC-10	Consumers Coalition (Coalition) to Manitoba Hydro - Round 1 Information Requests
Ex. #	CC-10-1	Coalition to MH - Round 1 Irs Ten year target - 75:25 equity ratio
Ex. #	CC-10-2	" " " " " " " Need to improve equity level
Ex. #	CC-10-3	" " " " " " " Uncertainty analysis - equity ratio results
Ex. #	CC-10-4	" " " " " " " Change in underlying assumptions
Ex. #	CC-10-5	" " " " " " " 2016 Financial Statement values - Property, Plant and Equipment
Ex. #	CC-10-6	" " " " " " " Intangible Assets - Remaining Useful Life
Ex. #	CC-10-7	" " " " " " " Property, Plant and Equipment - Remaining Useful Life
Ex. #	CC-10-8	" " " " " " " Full set of financial statements generation for each of the scenarios in Figure 4.4 - Key variable sensitivity impacts to MH16 retained earnings
Ex. #	CC-10-9	" " " " " " " Uncertainty analysis - Water flow variability

Ex. #	CC-10-10	"	"	"	"	"	"	Uncertainty analysis - Export Revenue
Ex. #	CC-10-11	"	"	"	"	"	"	Uncertainty analysis - equity ratio
Ex. #	CC-10-12	"	"	"	"	"	"	Uncertainty analysis - net debt
Ex. #	CC-10-13	"	"	"	"	"	"	Uncertainty analysis - retained earnings
Ex. #	CC-10-14	"	"	"	"	"	"	Uncertainty analysis - Interest coverage ratio & capital coverage ratio
Ex. #	CC-10-15	"	"	"	"	"	"	Credibility of equity ratio plan
Ex. #	CC-10-16	"	"	"	"	"	"	Inadequacy of previous financial plans
Ex. #	CC-10-17	"	"	"	"	"	"	Corporate strategic plan and dashboard
Ex. #	CC-10-18	"	"	"	"	"	"	Manitoba Clean Environment Commission - Lake Winnipeg Regulation Report - Nelson & Churchill River systems
Ex. #	CC-10-18	"	"	"	"	"	"	Debt Management Strategy
Ex. #	CC-10-19	"	"	"	"	"	"	Debt Management Strategy - Interest rate information
Ex. #	CC-10-20	"	"	"	"	"	"	Debt Management Strategy - Debt retirement
Ex. #	CC-10-21	"	"	"	"	"	"	Debt Management Strategy
Ex. #	CC-10-22	"	"	"	"	"	"	Lower Electric Load Forecast and Domestic Revenues
Ex. #	CC-10-23	"	"	"	"	"	"	Manitoba Hydro Climate Change Report

Ex. #	CC-10-24	"	"	"	"	"	"	Electric Load Forecast 2016 - Prime drivers of growth
Ex. #	CC-10-25	"	"	"	"	"	"	Electric Load Forecast 2016 - General Service Top Customers
Ex. #	CC-10-26	"	"	"	"	"	"	Electric Load Forecast 2016 - Load Sensitivities and extreme events
Ex. #	CC-10-27	"	"	"	"	"	"	Load Forecast - Price Elasticities - Reasonableness of value estimated
Ex. #	CC-10-28	"	"	"	"	"	"	Load Forecast - Forecast of residential dwellings
Ex. #	CC-10-29	"	"	"	"	"	"	2017 Energy Price Outlook
Ex. #	CC-10-30	"	"	"	"	"	"	Load Forecast - GS Top Consumers Forecast - short term vs long term forecast
Ex. #	CC-10-31	"	"	"	"	"	"	Load Forecast - GS Top Consumers Forecast - major changes & effects
Ex. #	CC-10-32	"	"	"	"	"	"	Load Forecast - GS Top Consumers Forecast - Potential Large Industrial Loads Forecast
Ex. #	CC-10-33	"	"	"	"	"	"	Load Forecast - GS Top Consumers Forecast - Potential Large Industrial Loads Forecast
Ex. #	CC-10-34	"	"	"	"	"	"	Economic Outlook - Changes in Outlook - Population Forecasts
Ex. #	CC-10-35	"	"	"	"	"	"	Load Forecast - Residential Customer Count - Basis for Forecast
Ex. #	CC-10-36	"	"	"	"	"	"	Load Forecast - Multiple Customer Sectors - Potential Distributed Generation
Ex. #	CC-10-37	"	"	"	"	"	"	Load Forecast - Adjustments made for IFF16
Ex. #	CC-10-38	"	"	"	"	"	"	Load Forecast - Load Forecast Uncertainty

Ex. #	CC-10-39	"	"	"	"	"	"	Load Forecast - Definitions - Domestic Sales
Ex. #	CC-10-40	"	"	"	"	"	"	Load Forecast - DSM and forecast savings
Ex. #	CC-10-41	"	"	"	"	"	"	Load Forecast - Residential forecast - Input Assumptions and Methodology Used
Ex. #	CC-10-42	"	"	"	"	"	"	Load Forecast - Residential - Changes from previous forecasts
Ex. #	CC-10-43	"	"	"	"	"	"	Load Forecast - General Service Forecast - Forecast Methodology
Ex. #	CC-10-44	"	"	"	"	"	"	Load Forecast - GS Mass Market - Changes from previous forecasts
Ex. #	CC-10-45	"	"	"	"	"	"	Load Forecast - Top Consumers - Forecast methodology
Ex. #	CC-10-46	"	"	"	"	"	"	Load Forecast - Plug-in electric vehicles - changes in forecasts
Ex. #	CC-10-47	"	"	"	"	"	"	DSM Metrics - Basis for Calculation
Ex. #	CC-10-48	"	"	"	"	"	"	Load Forecast - DSM Savings
Ex. #	CC-10-49	"	"	"	"	"	"	Load Forecast - Impact of DSM - Changes between IFFs
Ex. #	CC-10-50	"	"	"	"	"	"	Supply and Demand Balance - System Firm Energy Demand and Resources - Impact of 2017 Load Forecast
Ex. #	CC-10-51	"	"	"	"	"	"	Export Price Forecast Modelling
Ex. #	CC-10-52	"	"	"	"	"	"	Export Price Forecast Modelling
Ex. #	CC-10-53	"	"	"	"	"	"	Closures of coal facilities - delayed under the Trump Administration in MISO or SPP markets

Ex. #	CC-10-54	"	"	"	"	"	"	Export Price Forecast - Capacity Prices
Ex. #	CC-10-55	"	"	"	"	"	"	Export Price Forecast - Carbon Prices and Restrictions
Ex. #	CC-10-56	"	"	"	"	"	"	Export Price Forecast
Ex. #	CC-10-57	"	"	"	"	"	"	Consultant Export Price Forecasts
Ex. #	CC-10-58	"	"	"	"	"	"	Approvals sought - interim rate orders
Ex. #	CC-10-59	"	"	"	"	"	"	Regulatory deferral accounts
Ex. #	CC-10-60	"	"	"	"	"	"	Deterioration in Financial Outlook
Ex. #	CC-10-61	"	"	"	"	"	"	Reason for a rate increase - need to complete Keeyask
Ex. #	CC-10-62	"	"	"	"	"	"	Favourable water flows
Ex. #	CC-10-63	"	"	"	"	"	"	Favourable interest rates
Ex. #	CC-10-64	"	"	"	"	"	"	Cash Flow for Sustaining and Reliability Projects
Ex. #	CC-10-65	"	"	"	"	"	"	Interest Costs Calculation of Cash Flow
Ex. #	CC-10-66	"	"	"	"	"	"	Cash Flow for Sustaining and Reliability Projects - Calculation of Cash Flow
Ex. #	CC-10-67	"	"	"	"	"	"	Cash Flow for Sustaining and Reliability Projects - Calculation of Cash Flow
Ex. #	CC-10-68	"	"	"	"	"	"	Cash Flow for Sustaining and Reliability Projects - Break Even Period/Requirement

Ex. #	CC-10-69	"	"	"	"	"	"	Alternative Cash Flow Calculation
Ex. #	CC-10-70	"	"	"	"	"	"	Capital Expenditures in Calculation of Cash Flow
Ex. #	CC-10-71	"	"	"	"	"	"	Cash Flow for Keeyask
Ex. #	CC-10-72	"	"	"	"	"	"	Need to improve equity level
Ex. #	CC-10-73	"	"	"	"	"	"	Forecast equity ratio
Ex. #	CC-10-74	"	"	"	"	"	"	Forecast cash flow surplus/deficit
Ex. #	CC-10-75	"	"	"	"	"	"	Comparison of net income from operations
Ex. #	CC-10-76	"	"	"	"	"	"	Economic outlook
Ex. #	CC-10-77	"	"	"	"	"	"	Economic outlook
Ex. #	CC-10-78	"	"	"	"	"	"	Economic outlook
Ex. #	CC-10-79	"	"	"	"	"	"	Long Term Interest Rates
Ex. #	CC-10-80	"	"	"	"	"	"	Bank of Canada interest rates
Ex. #	CC-10-81	"	"	"	"	"	"	Committed Resource assumptions
Ex. #	CC-10-82	"	"	"	"	"	"	Actual/forecast financial statements 2016/17

Ex. #	CC-10-83	"	"	"	"	"	"	Other revenue
Ex. #	CC-10-84	"	"	"	"	"	"	Recent outlook for 2016/17 Other revenue
Ex. #	CC-10-85	"	"	"	"	"	"	IFRS vs CGAAP
Ex. #	CC-10-86	"	"	"	"	"	"	Water rentals
Ex. #	CC-10-87	"	"	"	"	"	"	Fuel and Power purchased costs
Ex. #	CC-10-88	"	"	"	"	"	"	Fuel and Power purchased costs
Ex. #	CC-10-89	"	"	"	"	"	"	Transmission charges
Ex. #	CC-10-90	"	"	"	"	"	"	Power purchased
Ex. #	CC-10-91	"	"	"	"	"	"	Capital taxes
Ex. #	CC-10-92	"	"	"	"	"	"	Other expense under CGAAP
Ex. #	CC-10-93	"	"	"	"	"	"	Other expense under CGAAP
Ex. #	CC-10-94	"	"	"	"	"	"	Projected financial statement
Ex. #	CC-10-95	"	"	"	"	"	"	Regulatory deferral accounts
Ex. #	CC-10-96	"	"	"	"	"	"	Long term debt and net debt values
Ex. #	CC-10-97	"	"	"	"	"	"	Weighted average interest rate

Ex. #	CC-10-98	"	"	"	"	"	"	Export Revenue
Ex. #	CC-10-99	"	"	"	"	"	"	Mix of exports
Ex. #	CC-10-100	"	"	"	"	"	"	Export Revenue
Ex. #	CC-10-101	"	"	"	"	"	"	PUB MFR 83
Ex. #	CC-10-102	"	"	"	"	"	"	Average unit revenue/cost schedule
Ex. #	CC-10-103	"	"	"	"	"	"	Merchant purchases
Ex. #	CC-10-104	"	"	"	"	"	"	Additions to Regulatory deferral accounts
Ex. #	CC-10-105	"	"	"	"	"	"	Conawapa costs
Ex. #	CC-10-106	"	"	"	"	"	"	MIPUG MFR 5 - IFF16 Updates
Ex. #	CC-10-107	"	"	"	"	"	"	Supply chain management initiatives
Ex. #	CC-10-108	"	"	"	"	"	"	Asset management strategies and supply chain management initiatives
Ex. #	CC-10-109	"	"	"	"	"	"	EFT information
Ex. #	CC-10-110	"	"	"	"	"	"	EFT information
Ex. #	CC-10-111	"	"	"	"	"	"	Voluntary Departure Program
Ex. #	CC-10-112	"	"	"	"	"	"	External costs to the Boston Consulting Group's engagement
Ex. #	CC-10-113	"	"	"	"	"	"	Hydro One's 2018-2022 Distribution Rate Application

Ex. #	CC-10-114	"	"	"	"	"	"	Compensation paid to executives
Ex. #	CC-10-115	"	"	"	"	"	"	Hay Consulting
Ex. #	CC-10-116	"	"	"	"	"	"	Post 2018/19 Operating & Administrative Expense forecast
Ex. #	CC-10-117	"	"	"	"	"	"	Reserve margin
Ex. #	CC-10-118	"	"	"	"	"	"	Rate making objectives
Ex. #	CC-10-119	"	"	"	"	"	"	Maximum bill impacts
Ex. #	CC-10-120	"	"	"	"	"	"	Case equity scenario
Ex. #	CC-10-121	"	"	"	"	"	"	Energy poverty based on common use
Ex. #	CC-10-122	"	"	"	"	"	"	Logit regressions - energy poverty
Ex. #	CC-10-123	"	"	"	"	"	"	Low income energy efficiency and weatherization initiatives
Ex. #	CC-10-124	"	"	"	"	"	"	Neighbours Helping Neighbours
Ex. #	CC-10-125	"	"	"	"	"	"	Affordable Energy/Bill Affordability Advisory Committee
Ex. #	CC-10-126	"	"	"	"	"	"	Equal Payment Plan
Ex. #	CC-10-127	"	"	"	"	"	"	Bill payment/matching program
Ex. #	CC-10-128	"	"	"	"	"	"	2016/17 Annual Report - Affordable Energy Fund
Ex. #	CC-10-129	"	"	"	"	"	"	Affordable Energy Fund
Ex. #	CC-10-130	"	"	"	"	"	"	Residential Electric Heating customers

Ex. #	CC-10-131	"	"	"	"	"	"	Conservation rates
Ex. #	CC-10-132	"	"	"	"	"	"	DSM Supplemental Report
Ex. #	CC-10-133	"	"	"	"	"	"	SCC Costs in evaluating DSM and other resources program
Ex. #	CC-10-134	"	"	"	"	"	"	GS Small and Medium customers
Ex. #	CC-10-135	"	"	"	"	"	"	150W LED rates
Ex. #	CC-10-136	"	"	"	"	"	"	Sentinel metered rates
Ex. #	CC-10-137	"	"	"	"	"	"	Limited Use of Billing Demand Report
Ex. #	CC-10-138	"	"	"	"	"	"	Depreciation
Ex. #	CC-10-139	"	"	"	"	"	"	Deferral Account
Ex. #	CC-10-140	"	"	"	"	"	"	Settlement Agreements
Ex. #	CC-10-141	"	"	"	"	"	"	Independent Benchmark
Ex. #	CC-10-142	"	"	"	"	"	"	Electric Business Operations Capital
Ex. #	CC-10-143	"	"	"	"	"	"	Annual Spending Forecast
Ex. #	CC-10-144	"	"	"	"	"	"	Forecast Capital Spending
Ex. #	CC-10-145	"	"	"	"	"	"	20 year outlook of capital expenditures
Ex. #	CC-10-146	"	"	"	"	"	"	Business Operations capital spending 2018-2027

Ex. #	CC-10-147	"	"	"	"	"	"	Diesel GS in Lac Brochet
Ex. #	CC-10-148	"	"	"	"	"	"	SAIDI and SAIFI forecasts
Ex. #	CC-10-149	"	"	"	"	"	"	UMS Group's engagement
Ex. #	CC-10-150	"	"	"	"	"	"	Decision-making criteria for asset replacement
Ex. #	CC-10-151	"	"	"	"	"	"	CIJ/CPJ - Other investment
Ex. #	CC-10-152	"	"	"	"	"	"	Investment categories in Capital Expenditures Table
Ex. #	CC-10-153	"	"	"	"	"	"	Business Operations capital targets
Ex. #	CC-10-154	"	"	"	"	"	"	Capital planning process and assumptions
Ex. #	CC-10-155	"	"	"	"	"	"	Business Operations Support capital expenditures
Ex. #	CC-10-156	"	"	"	"	"	"	Capital spending related to system load capacity
Ex. #	CC-10-157	"	"	"	"	"	"	System Load Capacity project
Ex. #	CC-10-158	"	"	"	"	"	"	Capacity & Growth project, with hot spots
Ex. #	CC-10-159	"	"	"	"	"	"	Growth in Number of Customers by Class
Ex. #	CC-10-160	"	"	"	"	"	"	status update on Kinectrics work
Ex. #	CC-10-161	"	"	"	"	"	"	Asset Condition Assessment Audit, Kinectrics, May 12, 2016, for each asset class
Ex. #	CC-10-162	"	"	"	"	"	"	MH Electrical Infrastructure Condition Assessment Summary Report

Ex. #	CC-10-163	"	"	"	"	"	"	Flagged for Auction Plan
Ex. #	CC-10-164	"	"	"	"	"	"	Rationale for replacement criteria
Ex. #	CC-10-165	"	"	"	"	"	"	Age Limiter defined by Age Limiter Curve
Ex. #	CC-10-166	"	"	"	"	"	"	Functional Failure curve
Ex. #	CC-10-167	"	"	"	"	"	"	Major System Renewal Projects
Ex. #	CC-10-168	"	"	"	"	"	"	Risk Assessment study, forced outages
Ex. #	CC-10-169	"	"	"	"	"	"	consequence costs will reduce with Bipole III
Ex. #	CC-10-170	"	"	"	"	"	"	Risk Assessment study, Pine Falls Units
Ex. #	CC-10-171	"	"	"	"	"	"	failure probability and impact Dorsey HVDC Synchronous Condenser refurbishment
Ex. #	CC-10-172	"	"	"	"	"	"	safety and aging infrastructure concerns of King Station
Ex. #	CC-10-173	"	"	"	"	"	"	Capital Planning assumption
Ex. #	CC-10-174	"	"	"	"	"	"	CIJ/CPJ all 2017-2018 projects
Ex. #	CC-10-175	"	"	"	"	"	"	Portfolio Adjustments for MH's capital expenditures
Ex. #	CC-10-176	"	"	"	"	"	"	MH Assumptoin/expectation impact of large scale asset replacement maintenace costs
Ex. #	CC-10-177	"	"	"	"	"	"	Asset Management partices at MH
Ex. #	CC-10-178	"	"	"	"	"	"	UMS assessment for subcomponent within ten AM domains

Ex. #	CC-10-179	"	"	"	"	"	"	Policy, Strategy and Objectives Documents
Ex. #	CC-10-180	"	"	"	"	"	"	Asset Management competency level
Ex. #	CC-10-181	"	"	"	"	"	"	Asset Management Roadmap/Strategies developed by the Business Unit
Ex. #	CC-10-182	"	"	"	"	"	"	Asset Management improvement plan
Ex. #	CC-10-183	"	"	"	"	"	"	Asset Management Practice
Ex. #	CC-10-184	"	"	"	"	"	"	portion of operating expenditures directed at servicing
Ex. #	CC-10-185	"	"	"	"	"	"	MH capital planning, implementation and cost allocation practices
Ex. #	CC-10-186	"	"	"	"	"	"	MH effects to optimize the allocatin of labour force across planned capital
Ex. #	CC-10-187	"	"	"	"	"	"	MH decision-making assumptions underlying asset replacement strategies
Ex. #	CC-10-188	"	"	"	"	"	"	Consequence categories
Ex. #	CC-10-189	"	"	"	"	"	"	Asset Management planning assumptions
Ex. #	CC-10-190	"	"	"	"	"	"	Replacement capital budget and year of replacment
Ex. #	CC-10-191	"	"	"	"	"	"	Slave Falls project Asset Management planning assumptions
Ex. #	CC-10-192	"	"	"	"	"	"	planned schedule for HVDC BP2 Value Hall Wall Bushing replacement
Ex. #	CC-10-193	"	"	"	"	"	"	Capital Budget planning assumptions
Ex. #	CC-10-194	"	"	"	"	"	"	Assumptions underlying the model

Ex. #	CC-10-195	"	"	"	"	"	"	RCM analysis to date
Ex. #	CC-10-196	"	"	"	"	"	"	Asset Investment Planning software
Ex. #	CC-10-197	"	"	"	"	"	"	Assess MH utilization of copperleaf software for capital program planning
Ex. #	CC-10-198	"	"	"	"	"	"	MH capital budget planning assumptions
Ex. #	CC-10-199	"	"	"	"	"	"	Assess effectiveness and efficiency of MH supply chain function
Ex. #	CC-10-200	"	"	"	"	"	"	Assess MH capital budget planning assumptions
Ex. #	CC-10-201	"	"	"	"	"	"	Assess scope and nature of anticipated changes to MH asset Management practices
Ex. #	CC-10-202	"	"	"	"	"	"	understand Asset Management objectives
Ex. #	CC-10-203	"	"	"	"	"	"	understand current asset management practices
Ex. #	CC-10-204	"	"	"	"	"	"	Process of setting target level of capital expenditures
Ex. #	CC-10-205	"	"	"	"	"	"	Population risk is forecasted
Ex. #	CC-10-206	"	"	"	"	"	"	Keeyask project full and complete analysis and understanding
Ex. #	CC-10-207	"	"	"	"	"	"	review new revised costs/dates for Keeyask project considered
Ex. #	CC-10-208	"	"	"	"	"	"	Keeyask Recovery Plan, improved cost/schedule performance Keeyask Generation Project
Ex. #	CC-10-209	"	"	"	"	"	"	Bipole III Reliability Project contact management arrangement
Ex. #	CC-10-210	"	"	"	"	"	"	Bipole III project full and complete analysis and understanding

Ex. #	CC-10-211	"	"	"	"	"	"	Manitoba-Minnesota Transmission Project full and complete analysis and understanding
Ex. #	CC-10-212	"	"	"	"	"	"	Saskatchewan commences in 2020/21
Ex. #	CC-10-213	"	"	"	"	"	"	unredacted version of latest CPJ/CIJ Manitoba-Saskatchewan Transmission
Ex. #	CC-10-214	"	"	"	"	"	"	scope and nature of applicant's efforts to justify re-evaluate Keeyask and Bipole III
Ex. #	CC-10-215	"	"	"	"	"	"	planning processes BCG review
Ex. #	CC-10-216	"	"	"	"	"	"	role of ZOR in light of Order 164/16
Ex. #	CC-10-217	"	"	"	"	"	"	other factors considered besides results of Cost of Service Study
Ex. #	CC-10-218	"	"	"	"	"	"	reconcile Compliance filing with Board Order 164/16
Ex. #	CC-10-219	"	"	"	"	"	"	compliance filing Average Rate Base for Sub-Transmission
Ex. #	CC-10-220	"	"	"	"	"	"	Average Rate Base for Distribution has increased slightly
Ex. #	CC-10-221	"	"	"	"	"	"	basis for allocating Common Costs
Ex. #	CC-10-222	"	"	"	"	"	"	test the appropriateness of allocator used for EMS.SCDa portion Communications
Ex. #	CC-10-223	"	"	"	"	"	"	understanding basis for allocating common costs
Ex. #	CC-10-224	"	"	"	"	"	"	understanding basis for allocating common costs
Ex. #	CC-10-225	"	"	"	"	"	"	understanding basis for allocating common costs
Ex. #	CC-10-226	"	"	"	"	"	"	understanding allocation factor used for Net Export Revenue

Ex. #	CC-10-227	"	"	"	"	"	"	clarify treatment of distribution service costs
Ex. #	CC-10-228	"	"	"	"	"	"	understand basis for Meter Investment weighting factors
Ex. #	CC-10-229	"	"	"	"	"	"	Reconcile Revenue Requirement components with cost categories used in Cost of Service
Ex. #	CC-10-230	"	"	"	"	"	"	clarify appropriate starting point for adjustments
Ex. #	CC-10-231	"	"	"	"	"	"	clarify the Revenue Reconciliation adjustments included in Cost of Service Study
Ex. #	CC-10-232	"	"	"	"	"	"	clarify treatment of other Revenue
Ex. #	CC-10-233	"	"	"	"	"	"	clarify Treatment of Capital and other Taxes
Ex. #	CC-10-234	"	"	"	"	"	"	understand Cost of Service treatment of Corporate Allocation
Ex. #	CC-10-235	"	"	"	"	"	"	understand treatment of Net Movement in Regulatory Deferrals
Ex. #	CC-10-236	"	"	"	"	"	"	complete COSS analysis and clarify potential misunderstandings
Ex. #	CC-10-237	"	"	"	"	"	"	understand derivation of Operating Costs used to functionalize Buildings, General Equipment and Communications
Ex. #	CC-10-238	"	"	"	"	"	"	understand basis for sub-functionalization of costs
Ex. #	CC-10-239	"	"	"	"	"	"	understand basis for functionalization of Communications and Control Systems costs
Ex. #	CC-10-240	"	"	"	"	"	"	understand how SEP costs are established
Ex. #	CC-10-241	"	"	"	"	"	"	determine how MH addressed issue of MISO fees as noted in PUB's April 3, 2017 letter
Ex. #	CC-10-242	"	"	"	"	"	"	understand treatment of Wind and Water Rental costs

Ex. #	CC-10-243	"	"	"	"	"	"	understand the functionalization of Common Costs
Ex. #	CC-10-244	"	"	"	"	"	"	determine MH response to Board's Directives from Order 164/16
Ex. #	CC-10-245	"	"	"	"	"	"	understand Manitoba Hydro's functionalization of facilities
Ex. #	CC-10-246	"	"	"	"	"	"	understand MH Functionalization of these costs
Ex. #	CC-10-247	"	"	"	"	"	"	understand MH allocation of Customer Service Costs
Ex. #	CC-10-248	"	"	"	"	"	"	Understand MH allocation of Services costs
Ex. #	CC-10-249	"	"	"	"	"	"	MH plans for future study
Ex. #	CC-11	Consumers Coalition to Business Council of Manitoba re Request for Information on Proposed Evidence - September 18, 2017						
Ex. #	CC-12	Consumers Coalition to Manitoba Hydro - Round 2 Information Requests						
Ex. #	CC-12-1	"	"	"	"	"	"	20 year information for MIPUG
Ex. #	CC-12-2	"	"	"	"	"	"	full raw output for 918 model
Ex. #	CC-12-3	"	"	"	"	"	"	Electric Operations Project Operating statement 104 Water flow
Ex. #	CC-12-4	"	"	"	"	"	"	Electric Operations Project Operating statement 102 Water flow
Ex. #	CC-12-5	"	"	"	"	"	"	calculations and modeling results if domestic rates increases allowed from 2019/29
Ex. #	CC-12-6	"	"	"	"	"	"	Electric Operations Projected Operating Statement
Ex. #	CC-12-7	"	"	"	"	"	"	rate increase in every year after 2028/29

Ex. #	CC-12-8	"	"	"	"	"	"	Assuming climate change, affecting trend and variability of streamflow over time
Ex. #	CC-12-9	"	"	"	"	"	"	price growth contributor to load growth
Ex. #	CC-12-10	"	"	"	"	"	"	reasonableness of residential forecast
Ex. #	CC-12-11	"	"	"	"	"	"	historical proportions of dwellings, by type and area
Ex. #	CC-12-12	"	"	"	"	"	"	Energy prices used as inputs to load forecast
Ex. #	CC-12-13	"	"	"	"	"	"	impacts in two sectors result one increasing and other decreasing
Ex. #	CC-12-14	"	"	"	"	"	"	basis for impact of changes in determination of PLIL
Ex. #	CC-12-15	"	"	"	"	"	"	clarify the impact of changes in approach to determining PLIL
Ex. #	CC-12-16	"	"	"	"	"	"	understand basis for MH decision that premium was not appropriate at this time for long term planning purposes
Ex. #	CC-12-17	"	"	"	"	"	"	response to initial information request
Ex. #	CC-12-18	"	"	"	"	"	"	implication of not allowing balances to be amortized
Ex. #	CC-12-19	"	"	"	"	"	"	understand implications of MH regulatory accounting assumptions
Ex. #	CC-12-20	"	"	"	"	"	"	clarify financial forecasts used in response
Ex. #	CC-12-21	"	"	"	"	"	"	understand implications of Voluntary Departure Program
Ex. #	CC-12-22	"	"	"	"	"	"	implication of actual capital spending in-service additions for 2016/17

Ex. #	CC-12-23	"	"	"	"	"	"	understand consequences of approved Aug 1, 2017 interim rate increase
Ex. #	CC-12-24	"	"	"	"	"	"	clarify basis for cash flow calculation
Ex. #	CC-12-25	"	"	"	"	"	"	understand how forecast load requirements used determining investment needs aligns with overall load forecast
Ex. #	CC-12-26	"	"	"	"	"	"	clarify categories of customers used in response
Ex. #	CC-12-27	"	"	"	"	"	"	clarify basis for deriving marginal costs and portention variation by TOU
Ex. #	CC-12-28	"	"	"	"	"	"	Clarify relevant PCOSS18 results for use in rate design
Ex. #	CC-12-29	"	"	"	"	"	"	understand how items captured in Net Movement are functionalized
Ex. #	CC-12-30	"	"	"	"	"	"	reconcile values reported in response
Ex. #	CC-12-31	"	"	"	"	"	"	understand change in treatment of Buildings and General Equipment with respect to Diesel
Ex. #	CC-12-32	"	"	"	"	"	"	Clarify basis for tables presented in response
Ex. #	CC-12-33	"	"	"	"	"	"	Clarify applicability of principle cited in question to non-TOU circumstances
Ex. #	CC-12-34	"	"	"	"	"	"	Clarify basis for transmission component of marginal costs
Ex. #	CC-12-35	"	"	"	"	"	"	Clarify basis for distribution component of marginal costs
Ex. #	CC-12-36	"	"	"	"	"	"	Clarify basis for labour allocator used in PCOSS18
Ex. #	CC-12-37	"	"	"	"	"	"	Clarify basis for determination of System Load Factor as used in PCOSS18

Ex. #	CC-12-38	"	"	"	"	"	"	Clarify cash flow calculations provided in response
Ex. #	CC-12-39	"	"	"	"	"	"	Understand financial implication of load shifting due to TOU rates
Ex. #	CC-12-40	"	"	"	"	"	"	Clarify circumstances under MH oversees work near electric plant
Ex. #	CC-12-41	"	"	"	"	"	"	understand likelihood of risk identified in response
Ex. #	CC-12-42	"	"	"	"	"	"	update change in financial outlook from MH14
Ex. #	CC-12-43	"	"	"	"	"	"	Treatment volumes associated with Merchant Sales
Ex. #	CC-12-44	"	"	"	"	"	"	scatter diagram with annual hydro bill percentage of income
Ex. #	CC-12-45	"	"	"	"	"	"	basis for evaluating DSM and generation resource options
Ex. #	CC-12-46	"	"	"	"	"	"	determine appropriateness of proposed rates
Ex. #	CC-12-47	"	"	"	"	"	"	Clarify basis for results of benchmarking study prepared in BCG
Ex. #	CC-12-48	"	"	"	"	"	"	change in forecast capital spending and in-service additions
Ex. #	CC-12-49	"	"	"	"	"	"	Business Operations Capital
Ex. #	CC-12-50	"	"	"	"	"	"	annual Business Operations Capital spending for 2027/28 through 2033/34
Ex. #	CC-12-51	"	"	"	"	"	"	reconcile 2016/17 capital contribution
Ex. #	CC-12-52	"	"	"	"	"	"	Keyask project not possible has Bipole III not been committed to

Ex. #	CC-12-53	"	"	"	"	"	"	basis for determining probability of failure v. consequences of failure
Ex. #	CC-12-54	"	"	"	"	"	"	gain clarification on incremental evidence provided by applicant
Ex. #	CC-12-55	"	"	"	"	"	"	clarify use of asset age in determining asset replacement
Ex. #	CC-12-56	"	"	"	"	"	"	understand the effect of the re-prioritization process discussed in response
Ex. #	CC-12-57	"	"	"	"	"	"	clarification on incremental evidence provided by applicant
Ex. #	CC-12-58	"	"	"	"	"	"	Capital and Operating savings, forecast savings
Ex. #	CC-12-59	"	"	"	"	"	"	incremental evidence provided by applicant
Ex. #	CC-12-60	"	"	"	"	"	"	increase/decrease spending outlook over the years
Ex. #	CC-12-61	"	"	"	"	"	"	System Capacity Process
Ex. #	CC-12-62	"	"	"	"	"	"	Capacity Planning Process
Ex. #	CC-12-63	"	"	"	"	"	"	Incremental evidence provided by Application CEMI/CELID
Ex. #	CC-12-64	"	"	"	"	"	"	further detail on incremental evidence provided by applicant
Ex. #	CC-12-65	"	"	"	"	"	"	Methodology used to estimate the portfolio adjustment forecast values for the test year
Ex. #	CC-12-66	"	"	"	"	"	"	formal mandate, objectives, timelines and milestones for division over following 3 years
Ex. #	CC-12-67	"	"	"	"	"	"	correspondence between MH and UMS

Ex. #	CC-12-68	"	"	"	"	"	"	Summary Report on Current Maintenance Plan
Ex. #	CC-12-69	"	"	"	"	"	"	itemized breakdown of Other category for Pointe Du Bois Spillway and Riel 230/500 KV Station
Ex. #	CC-12-70	"	"	"	"	"	"	MH attempted to quantify magnitude of avoided costs
Ex. #	CC-12-71	"	"	"	"	"	"	Keeyask Project complete analysis and understanding of project
Ex. #	CC-12-72	"	"	"	"	"	"	expect Keeyask Recovery Plan result in improved cost/schedule performances for Generation Project
Ex. #	CC-12-73	"	"	"	"	"	"	Bipole Project complete analysis and understanding of project
Ex. #	CC-12-74	"	"	"	"	"	"	Gas Generation Service evaluated alternative to Keeyask and Bipole III
Ex. #	CC-12-75	"	"	"	"	"	"	Major Project Business Unit associated with Generation or Transmission using MH SAP
Ex. #	CC-12-76	"	"	"	"	"	"	Other Revenue, Other Expenses and Corporate Allocation are functionalized
Ex. #	CC-12-77	"	"	"	"	"	"	nature of direction or conclusion from the PUB
Ex. #	CC-12-78	"	"	"	"	"	"	readily know which of the illustrative rates would apply to them
Ex. #	CC-12-79	"	"	"	"	"	"	Residential Diesel customers considered Basic Standard
Ex. #	CC-12-80	"	"	"	"	"	"	MH use of Electric Heat Billed classification
Ex. #	CC-12-81	"	"	"	"	"	"	load profiles for Electric Heat Billed and Non Heat Billed customers
Ex. #	CC-12-82	"	"	"	"	"	"	why necessary to achieve revenue for class as a whole

Ex. #	CC-12-83	"	"	"	"	"	"	Electric Billed Customers and Non Heat Billed Customers, of Figure 5
Ex. #	CC-12-84	"	"	"	"	"	"	Mertis of illustrative rate design set out by MH
Ex. #	CC-12-85	"	"	"	"	"	"	Implications/Impact of removal of URA from COSS Study on Residential rates
Ex. #	CC-12-86	"	"	"	"	"	"	basis for 2 % as increase energy charge for Non Heat Billed customers
Ex. #	CC-12-87	"	"	"	"	"	"	need for COSS revisions
Ex. #	CC-12-88	"	"	"	"	"	"	how bills assigned to each of four seasons for purposes of responding
Ex. #	CC-12-89	"	"	"	"	"	"	heating requirements vary across Manitoba residential customers
Ex. #	CC-13	Consumers Coalition to PUB re Proposed Scope of Work for the Independent Expert Consultants retained by the PUB - September 22, 2017						
Ex. #	CC-14	Consumers Coalition response to Manitoba Hydro's September 7, 2017 CSI Motion - September 26, 2017						
Ex. #	CC-14-1	Appendices to Consumers Coalition CSI Motion response						
Ex. #	CC-15	Consumers Coalition re Revised Budget for Dr. Gotham - September 26, 2017						
Ex. #	CC-15-1	Revised Budget and Workplan for Dr. Gotham - Blackline						
Ex. #	CC-15-2	Revised Budget and Workplan for Dr. Gotham - Clean						
Ex. #	CC-16	Letter from Coalition dated October 31, 2017 re Filing of Consumers Coalition Evidence						
Ex. #	CC-17	Review of Manitoba Hydro Financial Targets: Report to the Manitoba PUB - by Morrison Park Advisors (MPA)						

Ex. #	CC-17-1	Errata to Morrison Park Avidors Report
Ex. #	CC-18	The Effect of the Proposed Hydro Rate Increase on the Manitoba Economy - by Dr. Janice Compton and Dr. Wayne Simpson
Ex. #	CC-19	Review of Manitoba Hydro's 2017/18 and 2018/19 GRA Sustainment Capital - by METSCO Energy Solutions Inc.
Ex. #	CC-20	Manitoba Public Utilities Board: Manitoba Hydro's 2017/18 and 2018/19 General Rate Application - by William Harper, Econalysis Consulting Services
Ex. #	CC-21	Energy Poverty in Manitoba and the Impact of the Proposed Hydro Rate Increase: An Assessment of the Bill Affordability Study in the Manitoba Hydro GRA - by Dr. Wayne Simpson
Ex. #	CC-22	Consumers Coalition to AMC Information Requests
Ex. #	CC-22-1	" " " " " " " Definition of Low-Income customers
Ex. #	CC-22-2	" " " " " " " Peer-Reviewed and Literature reviewed in preparation of Mr. Raphael's evidence
Ex. #	CC-22-3	" " " " " " " Consumer engagement conducts preparation of Mr. Raphael's evidence
Ex. #	CC-22-4	" " " " " " " elements considered in deciding bill affordability measures
Ex. #	CC-23	Coalition to GAC
Ex. #	CC-23-1	" " " " " " " Net Income
Ex. #	CC-23-2	" " " " " " " Societal Cost Test, Total Resource Cost Test
Ex. #	CC-23-3	" " " " " " " Class Load factors
Ex. #	CC-23-4	" " " " " " " Annual Savings for customer

Ex. #	CC-23-5	"	"	"	"	"	"	LICO-125 residential customers
Ex. #	CC-23-6	"	"	"	"	"	"	Customers Inclining rate structure applies
Ex. #	CC-23-7	"	"	"	"	"	"	Low-income customers
Ex. #	CC-23-8	"	"	"	"	"	"	Peer-Reviewed and Literature reviewed
Ex. #	CC-23-9	"	"	"	"	"	"	consumer engagement conducted in prep of Mr. Chernick's tetimony
Ex. #	CC-23-10	"	"	"	"	"	"	Rate proposals
Ex. #	CC-24	Coalition to GSS-GSM-KAP						
Ex. #	CC-24-1	"	"	"	"	"	"	LEI Evidence - Macroeconomic Impact
Ex. #	CC-25	Coalition to MIPUG						
Ex. #	CC-25-1	"	"	"	"	"	"	US and Saskatchewan utility supply
Ex. #	CC-25-2	"	"	"	"	"	"	DSM costs in IFF16 than in NFAT
Ex. #	CC-25-3	"	"	"	"	"	"	Hydro Uncertainty Analysis
Ex. #	CC-26	Letter to PUB dated November 16, 2017 re Responses to Irs on Intervener Evidence (Coalition & MIPUG)						
Ex. #	CC-27	Coalition to City of Winnipeg						
Ex. #	CC-27-1	"	"	"	"	"	"	Conference Board of Canada report

Ex. #	CC-27-2	"	"	"	"	"	"	Risk Analysis
Ex. #	CC-28	Coalition-Daymank (export) Information Requests						
Ex. #	CC-28-1	"	"	"	"	"	"	Mr Chernicks Assessment of US (MISO) supply mix
Ex. #	CC-28-2	"	"	"	"	"	"	forecast and actual values, Export Price Forecast
Ex. #	CC-28-3	"	"	"	"	"	"	on-peak and off-peak export prices
Ex. #	CC-28-4	"	"	"	"	"	"	key inputs into export energy price forecast: Natural Gas, Carbon and Capacity
Ex. #	CC-28-5	"	"	"	"	"	"	MH market view and Consultants market view
Ex. #	CC-28-6	"	"	"	"	"	"	MH adjustments
Ex. #	CC-28-7	"	"	"	"	"	"	IFF16 actual inflows
Ex. #	CC-28-8	"	"	"	"	"	"	export revenues determined by average revenues across inflow conditions
Ex. #	CC-28-9	"	"	"	"	"	"	appropriateness of premium for surplus dependable energy and capacity
Ex. #	CC-28-10	"	"	"	"	"	"	implications of findings regarding MHs forecast export revenue
Ex. #	CC-28-11	"	"	"	"	"	"	extraprovincial revenue forecast
Ex. #	CC-28-12	"	"	"	"	"	"	implications on MH export price forecast
Ex. #	CC-28-13	"	"	"	"	"	"	reasonableness of assumption

Ex. #	CC-28-14	"	"	"	"	"	"	magnitude of significance on MH export price forecast
Ex. #	CC-28-15	"	"	"	"	"	"	high and low price cases developed by changing natural gas price
Ex. #	CC-29	Coalition-Yatchew Information Requests						
Ex. #	CC-29-1	"	"	"	"	"	"	Price Elasticities
Ex. #	CC-29-2	"	"	"	"	"	"	Measuring Energy poverty
Ex. #	CC-29-3	"	"	"	"	"	"	mechanism for assisting low income households
Ex. #	CC-29-4	"	"	"	"	"	"	Economic Outlook- GDP
Ex. #	CC-29-5	"	"	"	"	"	"	Economic Outlook - Exchange Rate
Ex. #	CC-29-6	"	"	"	"	"	"	Impact of Rate Increase
Ex. #	CC-29-7	"	"	"	"	"	"	lower rate increase
Ex. #	CC-29-8	"	"	"	"	"	"	electricity price increases in Ontario affected rate of growth
Ex. #	CC-29-9	"	"	"	"	"	"	incorrectly estimated price elasticities
Ex. #	CC-30	Coalition-Daymark (Load Forecast) Information Requests						
Ex. #	CC-30-1	"	"	"	"	"	"	Price Elasticity, Accuracy of price elasticity values
Ex. #	CC-30-2	"	"	"	"	"	"	Stochastic Risk Assessment, Impact of Multicollinearity on Stochastic Risk Assessment

Ex. #	CC-30-18	" " " " " " " DSM savings are adjusted via PLIL Model for Top Customer category
Ex. #	CC-31	Opening Statement
Ex. #	CC-32-1	Book of Documents - Sustaining Capital
Ex. #	CC-32-2	Book of Documents - Revenue Requirement Panel
Ex. #	CC-32-3	Book of Documents - COSS and Rate Design and Bill Affordability Panel
Ex. #	CC-32-3-1	" " " " " " " Energy Poverty Figures
Ex. #	CC-33	Coalition-MGF - Information Requests
Ex. #	CC-33-1	" " " " " " " Overall Keyask Project Management
Ex. #	CC-33-2	" " " " " " " Keyask Project Cost Overrun -GCC
Ex. #	CC-33-3	" " " " " " " Keyask Project Cost Overrun - Generating Station
Ex. #	CC-33-4	" " " " " " " Keyask Project Cost Estimating
Ex. #	CC-33-5	" " " " " " " Keyask Estimate Adjustments
Ex. #	CC-33-6	" " " " " " " Keyask Basis of Schedule
Ex. #	CC-33-7	" " " " " " " Keyask Schedule Baseline
Ex. #	CC-33-8	" " " " " " " Keyask -BBE Schedule Negative Float

Ex. #	CC-33-9	" " " " " " "	Keyask - BBE Forecast Completion Date
Ex. #	CC-33-10	" " " " " " "	Keyask Contract Management
Ex. #	CC-33-11	" " " " " " "	Keyask Craft to Foreman Ratio
Ex. #	CC-33-12	" " " " " " "	Keyask Board Recommendation
Ex. #	CC-33-13	" " " " " " "	Keyask Estimated Final Cost Range
Ex. #	CC-33-14	" " " " " " "	Keyask Cost Contingency
Ex. #	CC-33-15	" " " " " " "	Keyask Concrete Quantity and Earthwork fill Reporting
Ex. #	CC-33-16	" " " " " " "	Keyask Construction - Various Items
Ex. #	CC-33-17	" " " " " " "	HVDC Converter Stations - Risk Management
Ex. #	CC-33-18	" " " " " " "	Bipole III Transmission Line Risk Register
Ex. #	CC-33-19	" " " " " " "	Bipole III Transmission Line - Rokstad Power Company Schedule
Ex. #	CC-34		Coalition Letter to PUB re Public Presentations dated December 22, 2017
Ex. #	CC-35		Chart of Rate Increases and Bill Impact
Ex. #	CC-36		Consumers Coalition to MGF (KCB) Information Requests
Ex. #	CC-36-1	" " " " " " "	CC-33-3

Ex. #	CC-37	Load Forecasting In Electric Utility Integrated Resource Planning
Ex. #	CC-38	What are the Effects of Multicollinearity and when can I Ignore them Article
Ex. #	CC-39	NERC - Long Term Reliability Assessment
Ex. #	CC-40	US Energy Information Administration - Assumptions to the Annual Energy Outlook 2017
Ex. #	CC-41	US Federal Energy Regulatory Commission Decision
Ex. #	CC-42	Alberta's Renewable Electricity Program
Ex. #	CC-43	Presentation of Dr. Compton and Dr. Simpson - Rate Impacts on Manitoba Economy
Ex. #	CC-44	Presentation of Dr. Simpson - Rate Increases and Energy Poverty
Ex. #	CC-45	Presentation of Morrison Park Advisors (MPA)
Ex. #	CC-45-1	Debt Ratios Calculation - from MPA Presentation
Ex. #	CC-46	William Harper of Econalysis Presentation
Ex. #	CC-47	MMTP - NEP Application
Ex. #	CC-48	Correction to Mr. Bill Harper (Ecoalysis) Testimony
Ex. #	CC-49	British Columbia DSM Regulations
Ex. #	CC-50	London Economics - Ontario Power Report

Ex. #	CC-51	Consumers Coalition Undertaking 51- of Janice Compton and Wayne Simpson
Ex. #	CC-52	METSCO Presentation
Ex. #	CC-53	Consumers Coalition letter to all parties re Legal Argument - January 29, 2018
Ex. #	CC-54	Consumers Coalition Closing Submission Presentation
Ex. #	CC-55	Book of References for Closing Submissions
Ex. #	CC-56	Legal Sources



**EXHIBIT LIST FOR
MANITOBA HYDRO
2017/18 & 2018/19 General Rate Application**

February 16, 2018

CITY OF WINNIPEG (CoW) Exhibits

Ex. #	CoW-1	Email from the City of Winnipeg dated April 7, 2017 re Manitoba Hydro's Intentions in Respect of 2017 Rate Application
Ex. #	CoW-2	Report by the City of Winnipeg - October 31, 2017
Ex. #	CoW-3	Tyler Markowsky Presentation on behalf of City of Winnipeg
Ex. #	CoW-4	City of Winnipeg Undertakings 66-68
Ex. #	CoW-5	City of Winnipeg Closing Submissions Presentation



**EXHIBIT LIST FOR
MANITOBA HYDRO
2017/18 & 2018/19 General Rate Application**

February 16, 2018

GREEN ACTION CENTRE (GAC) Exhibits

Ex. #	GAC-1	Green Action Centre letter dated April 7, 2017 re Scope of Proposed 2017 General Rate Application
Ex. #	GAC-2	GAC's Minimum Filing Requirements (MFRs)
Ex. #	GAC-3	GAC Position on Interim Rate Increase dated May 26, 2017
Ex. #	GAC-3-1	Attachment to GAC letter dated May 26, 2017
Ex. #	GAC-4	Interim Rate Request Submission - July 18, 2017
Ex. #	GAC-5	Green Action Centre to PUB re Budget Submission dated July 14, 2017
Ex. #	GAC-5-1	GCH Budget
Ex. #	GAC-5-2	Budget RII Estimate
Ex. #	GAC-6	GAC's response to Coalition's letter re Cost of Service Model
Ex. #	GAC-7	Green Action Centre to Manitoba Hydro - Round 1 Information Requests
Ex. #	GAC-7-1	" " " " " " " Bill Frequency for residential class
Ex. #	GAC-7-2	" " " " " " " Average Bill for residential customer by moth, tariff subclass past 5 years

Ex. #	GAC-7-3	"	"	"	"	"	"	Basic, Low-income, non-low-income customers with and without electric heat
Ex. #	GAC-7-4	"	"	"	"	"	"	Domestic and Export Revenue, Forecast and Actual
Ex. #	GAC-7-5	"	"	"	"	"	"	Billing demand by month for each rate year
Ex. #	GAC-7-6	"	"	"	"	"	"	Proofs of Revenue
Ex. #	GAC-7-7	"	"	"	"	"	"	Number of billing units assumed, source, total revenue and any adjustments
Ex. #	GAC-7-8	"	"	"	"	"	"	Number of test year billing Units
Ex. #	GAC-7-9	"	"	"	"	"	"	Bill Comparision
Ex. #	GAC-7-10	"	"	"	"	"	"	Domestic Rate Clas, demand, energy, customer and other charges under existing and prosped rates
Ex. #	GAC-7-11	"	"	"	"	"	"	Analysis of Seasonal Variation in Marginal Costs
Ex. #	GAC-7-12	"	"	"	"	"	"	Seasonally-differentiated rates for Resdidential and General Service no-demand rates
Ex. #	GAC-7-13	"	"	"	"	"	"	Seasonally-differentiated rates for General Service Small and Medium demand rates
Ex. #	GAC-7-14	"	"	"	"	"	"	demand-related costs in peak period energy charge rather than demand charge
Ex. #	GAC-7-15	"	"	"	"	"	"	metering in place by class
Ex. #	GAC-7-16	"	"	"	"	"	"	Plan for upgrading metering by class

Ex. #	GAC-7-17	"	"	"	"	"	"	Appendix 8.4-8.7
Ex. #	GAC-7-18	"	"	"	"	"	"	explain common bus total energy is greater than sum of class total energy
Ex. #	GAC-7-19	"	"	"	"	"	"	basis for the selection of time periods
Ex. #	GAC-7-20	"	"	"	"	"	"	estimate of each component of the avoided cost used to screen DSM programs
Ex. #	GAC-7-21	"	"	"	"	"	"	Derivation of the avoided costs used to screen DSM programs
Ex. #	GAC-7-22	"	"	"	"	"	"	avoided distribution costs in its Power Smart cost effective metrics
Ex. #	GAC-7-23	"	"	"	"	"	"	Value to avoided T&D used by MH for screening DSM at any time since January 2010
Ex. #	GAC-7-24	"	"	"	"	"	"	MH Current estimates of avoided T&D costs and basis of the estimates
Ex. #	GAC-7-25	"	"	"	"	"	"	Distribution planning Guidelines
Ex. #	GAC-7-26	"	"	"	"	"	"	Percentage of Transmission, subtransmission and distributoin plant that is drive by customer's individual
Ex. #	GAC-7-27	"	"	"	"	"	"	Marginal cost study
Ex. #	GAC-7-28	"	"	"	"	"	"	SEP prices aggregated by season and time of period for the past 5 years
Ex. #	GAC-7-29	"	"	"	"	"	"	Estimate of Marginal Energy Costs by season and time period
Ex. #	GAC-7-30	"	"	"	"	"	"	Derivation the marginal energy cost estimates

Ex. #	GAC-7-31	"	"	"	"	"	"	Current forecast of average hourly export price by season and time period
Ex. #	GAC-7-32	"	"	"	"	"	"	Prices for firm export sales under each existing MH contact
Ex. #	GAC-7-33	"	"	"	"	"	"	Prices negotiation with Wisconsin Public Service, Minnesota Power and any other extra-provincial
Ex. #	GAC-7-34	"	"	"	"	"	"	Derivation of estimate of marginal generation cost
Ex. #	GAC-7-35	"	"	"	"	"	"	Estimate of marginal Geratio cost
Ex. #	GAC-7-36	"	"	"	"	"	"	Projected annual revenue requirements of Keeyask Project and assumptions and calculations
Ex. #	GAC-7-37	"	"	"	"	"	"	Estimate of costs per kW.h for power supply from Keeyask
Ex. #	GAC-7-38	"	"	"	"	"	"	Keeyask Project cost-effective
Ex. #	GAC-7-39	"	"	"	"	"	"	Derivation of Company's estimates of marginal T&D costs
Ex. #	GAC-7-40	"	"	"	"	"	"	Fixed and Variable O&M cost estimates included in marginal T&D cost estimates
Ex. #	GAC-7-41	"	"	"	"	"	"	Demand and energy loss factors applied to generation, tranmission and distribution marginal cost
Ex. #	GAC-7-42	"	"	"	"	"	"	Justification for each system load capacity tranmission or distribution project
Ex. #	GAC-7-43	"	"	"	"	"	"	Description of Project and explanation of justification
Ex. #	GAC-7-44	"	"	"	"	"	"	categories of projects included in Customer Connections-Residential Commercial & Industrial

Ex. #	GAC-7-45	"	"	"	"	"	"	Estimate of portion of expenditures on Customer Connections-Residential, Commercial & Industrial yearly
Ex. #	GAC-7-46	"	"	"	"	"	"	Nature of Portfolio Adjustments
Ex. #	GAC-7-47	"	"	"	"	"	"	Justification documents for each project
Ex. #	GAC-7-48	"	"	"	"	"	"	Purpose of expenditure of each project
Ex. #	GAC-7-49	"	"	"	"	"	"	Cause of reliability problem
Ex. #	GAC-7-50	"	"	"	"	"	"	Table 2.2.1.1 System Load Capacity
Ex. #	GAC-7-51	"	"	"	"	"	"	Revisions directed by Board in Order 164//16 not reflected in updated PCOSS14 or PCOSS18
Ex. #	GAC-7-52	"	"	"	"	"	"	Modifications made to PCOSS14 and PCOSS18 not explained in Tab 8
Ex. #	GAC-7-53	"	"	"	"	"	"	Why is PCOSS18 referred to as Rudimentary
Ex. #	GAC-7-54	"	"	"	"	"	"	MH Modification listed, supporting work
Ex. #	GAC-7-55	"	"	"	"	"	"	PCOSS14 Reflecting Order
Ex. #	GAC-7-56	"	"	"	"	"	"	Revision of labour allocator to reflect refunctionalization of Generation Outlet Transmission
Ex. #	GAC-7-57	"	"	"	"	"	"	Eliminated assignment of NEB fees to export
Ex. #	GAC-7-58	"	"	"	"	"	"	AEF assigned to exports why decreased
Ex. #	GAC-7-59	"	"	"	"	"	"	Assignment of Water Rental and variable O&D to exports

Ex. #	GAC-7-60	"	"	"	"	"	"	Calculation work of System Load Factor in PCOSS14 and PCOSS18
Ex. #	GAC-7-61	"	"	"	"	"	"	Basis of updated Operating and Depreciation reflect additional Generation Outlet Transmission
Ex. #	GAC-7-62	"	"	"	"	"	"	How MH updated Generation pool costs for classified on SLF, and cost classified as 100% Energy
Ex. #	GAC-7-63	"	"	"	"	"	"	How MH updated Transmission costs for 100% Demand, and US interface costs classified on SLF
Ex. #	GAC-7-64	"	"	"	"	"	"	Adjustment to C10 cost directly assigned to GSL 30-100 classes
Ex. #	GAC-7-65	"	"	"	"	"	"	Functionalization of additional Generation Outlet Transmission
Ex. #	GAC-7-66	"	"	"	"	"	"	Functionalization of additional Generation Outlet Transmission
Ex. #	GAC-7-67	"	"	"	"	"	"	Revision of Revenue to include forecast Late Payment & Adjustment revenue allocated based on actual
Ex. #	GAC-7-68	"	"	"	"	"	"	Basis of customer weights
Ex. #	GAC-7-69	"	"	"	"	"	"	Basis of multi-family adjustment to C27 Service Drop allocator
Ex. #	GAC-7-70	"	"	"	"	"	"	PCOSS18 changes
Ex. #	GAC-7-71	"	"	"	"	"	"	Modification to inputs and methodology reflected in PCOSS18 but not in the updated PCOSS14
Ex. #	GAC-8	Green Action Centre letter re Rate Design for Affordability - July 31, 2017						
Ex. #	GAC-9	Green Action Centre to Manitoba Hydro - Round 2 Information Requests						
Ex. #	GAC-9-1	"	"	"	"	"	"	Number of Bills by month of LICO 125 customers

Ex. #	GAC-9-2	"	"	"	"	"	"	Description of Survey sample as requested
Ex. #	GAC-9-3	"	"	"	"	"	"	Average Bill size in kW.h residential customers by month
Ex. #	GAC-9-4	"	"	"	"	"	"	Sample of Estimated total LICO-125 customers
Ex. #	GAC-9-5	"	"	"	"	"	"	2017 System Load Forecast
Ex. #	GAC-9-6	"	"	"	"	"	"	Historical Load Factor Data
Ex. #	GAC-9-7	"	"	"	"	"	"	Proof of Revenue
Ex. #	GAC-9-8	"	"	"	"	"	"	Mariginal Generation Capacity Cost
Ex. #	GAC-9-9	"	"	"	"	"	"	Common Bus Total Energy
Ex. #	GAC-9-10	"	"	"	"	"	"	Calculation of customer class total energy for common bus total energy
Ex. #	GAC-9-11	"	"	"	"	"	"	Changes in planned expenditures and calcautaion of avoided transmission cost
Ex. #	GAC-9-12	"	"	"	"	"	"	Derivation of Company's 2010 estimate of avoided tranmission cost
Ex. #	GAC-9-13	"	"	"	"	"	"	MH estimates of avoided T&D
Ex. #	GAC-9-14	"	"	"	"	"	"	Transmission, subtransmission and distribution plant capacity, other than service drops
Ex. #	GAC-9-15	"	"	"	"	"	"	non fuel O&M cost reflected in estimate of merginal generation capacity cost per kW.vr
Ex. #	GAC-9-16	"	"	"	"	"	"	benefirs of Keeyask project equal or exceed total revenue requirements
Ex. #	GAC-9-17	"	"	"	"	"	"	estimates of marginal T&D cost
Ex. #	GAC-9-18	"	"	"	"	"	"	Study Reports SPD2010/02 and SPD 04/05

Ex. #	GAC-9-19	" " " " " "	Growth-related expenditures
Ex. #	GAC-9-20	" " " " " "	Marginal Transmission cost
Ex. #	GAC-9-21	" " " " " "	decommissioning would be needed if there were no load growth in Stanley area
Ex. #	GAC-9-22	" " " " " "	Marginal distribution cost
Ex. #	GAC-9-23	" " " " " "	Demand and energy loss factors applied to derive marginal generation cost
Ex. #	GAC-9-24	" " " " " "	marginal generation cost component includes 14% loss factor
Ex. #	GAC-9-25	" " " " " "	Calculations of Illustrative rates
Ex. #	GAC-9-26	" " " " " "	Illustrative Proof of Revenue
Ex. #	GAC-9-27	" " " " " "	Concerns about customer confusion would be resolved
Ex. #	GAC-9-28	" " " " " "	Bill Affordability Working Group criteria not part of rationale
Ex. #	GAC-9-29	" " " " " "	Revenue shift from all-electric to standard customers
Ex. #	GAC-10	GAC's position re Manitoba Hydro's CSI Motion - September 27, 2017	
Ex. #	GAC-11	Direct Testimony of Paul Chernick on behalf of Green Action Centre	
Ex. #	GAC-12	GAC to Coalition (Harper)	
Ex. #	GAC-12-1	" " " " " "	Export and Client
Ex. #	GAC-12-2	" " " " " "	Expert concerns
Ex. #	GAC-12-3	" " " " " "	Expert view on Fairness and Equity

Ex. #	GAC-13	GAC to MIPUG
Ex. #	GAC-13-1	" " " " " Basis of assertion
Ex. #	GAC-13-2	" " " " " Bowman basis of assertion
Ex. #	GAC-13-3	" " " " " Coal generation
Ex. #	GAC-14	Opening Statement
Ex. #	GAC-15	Green Action Centre Book of Documents
Ex. #	GAC-16	Space Heating Annual Operating Cost Comparison Chart
Ex. #	GAC-17	Oral Evidence of Paul Chernick
Ex. #	GAC-18	GAC letter to all parties re Legal Argument - January 29, 2018
Ex. #	GAC-19	GAC Undertaking 39 - Electric Space Heating for on-reserve customers
Ex. #	GAC-20	GAC Undertaking 40 - Transmission and Distribution Costs
Ex. #	GAC-21	GAC Undertaking 41- Northern Allowance
Ex. #	GAC-22	GAC Undertaking 42 - PUB/GAC 6(a) Response
Ex. #	GAC-23	GAC Undertaking 43 - Cost Impact of Rate Design Proposal for on-reserve residential customers
Ex. #	GAC-24	GAC Undertaking 44 - Rate Design if on-reserve customers eligible for low-income rates
Ex. #	GAC-25	Green Action Centre Final Argument
Ex. #	GAC-26	Green Action Centre Closing Submissions



EXHIBIT LIST FOR
MANITOBA HYDRO
2017/18 & 2018/19 General Rate Application

February 16, 2018

General Service Small Customers and General Service Medium Customer Classes (GSS/GSM)

Ex. #	GSS/GSM-1	Submission on Interim Rate Request Application
Ex. #	GSS/GSM-2	Letter to PUB re Budget dated July 14, 2017
Ex. #	GSS/GSM-2-1	London Economics International LLC (LEI) Proposed Budget
Ex. #	GSS/GSM-2-2	AJ Goulding - Curriculum Vitae
Ex. #	GSS/GSM-3	Email re MH's Comments on Intervener Budgets - July 26, 2017
Ex. #	GSS/GSM-4	General Service Small/General Service Medium to Manitoba Hydro - Round 1 Information Requests
Ex. #	GSS/GSM-4-1	" " " " " " Utilization rates of Bipole I and II over the past 5 years
Ex. #	GSS/GSM-4-2	" " " " " " export contacts taken place absence of Bipole III
Ex. #	GSS/GSM-4-3	" " " " " " breakdown of cost on Keeyask
Ex. #	GSS/GSM-4-4	" " " " " " Breakdown of Cancellation cost estimate

Ex. #	GSS/GSM-4-5	" " " " " "	BCG Bipole III, Keeyask and Tie-Line summed demand growth
Ex. #	GSS/GSM-4-6	" " " " " "	Bipole III, Keeyask and Tie-Line aggregate basis instead of individually
Ex. #	GSS/GSM-4-7	" " " " " "	Variable hydraulic operation and maintenance costs
Ex. #	GSS/GSM-4-8	" " " " " "	Assigned export costs
Ex. #	GSS/GSM-4-9	" " " " " "	RCC schedule for all customer classes after each class NER revenue deducted from total
Ex. #	GSS/GSM-5	GSS/GSM Letter re Combined Intervention with KAP - letter dated August 22, 2017	
Ex. #	GSS/GSM-6	GSS/GSM Revised Budget for London Economics International - September 6, 2017	
Ex. #	GSS/GSM-7	GSS/GSM Legal Budget - September 7, 2017	
Ex. #	GSS/GSM-8	General Service Small/General Service Medium to Manitoba Hydro - Round 2 Information Requests	
Ex. #	GSS/GSM-8-1	" " " " " "	Impact of Bipole III on Bipole I and Bipole II levels of utilization
Ex. #	GSS/GSM-8-2	" " " " " "	Nature of costs included in Other Generating Station costs
Ex. #	GSS/GSM-8-3	" " " " " "	Cost of each cancellation cost item
Ex. #	GSS/GSM-9	Review of Manitoba Hydro's General Rate Application on behalf of the Small and Medium General Service Customer Classes and Keystone Agricultural Producers by London Economics	
Ex. #	GSS/GSM-9-1	London Economics International- Letter Summary of Errata	

Ex. #	GSS/GSM-9-2	London Economics International Report with Errata	
Ex. #	GSS/GSM-10	GSS-GSM to Coalition	
Ex. #	GSS/GSM-10-1	" " " " " "	Effects of Proposed Hydro Rate Increase on Economy
Ex. #	GSS/GSM-11	GSS-GSM to MIPUG	
Ex. #	GSS/GSM-11-1	" " " " " "	DSM Recommendations and TOU
Ex. #	GSS/GSM-12	GSS-GSM to Coalition (MPA)	
Ex. #	GSS/GSM-12-1	" " " " " "	debt service coverage
Ex. #	GSS/GSM-12-2	" " " " " "	interest rates and export prices
Ex. #	GSS/GSM-13	London Economics International Presentation	
Ex. #	GSS/GSM-14	GSS Letter to all parties re Legal Argument - January 29, 2018	
Ex. #	GSS/GSM-15	LEI Undertaking 72 - Hydro Values re-calculated from LEI Report	
Ex. #	GSS/GSM-16	January 26th Transcript Corrections	
Ex. #	GSS/GSM-17	GSS/GSM Book of Documents	
Ex. #	GSS/GSM-18	Supplementary Book of Documents	



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Keystone Agricultural Producers (KAP) Exhibits

Ex. #	KAP-1	KAP Budget Submission dated July 14, 2017
Ex. #	KAP-1-1	Attachment - Draft Budget
Ex. #	KAP-2	Interim Rate Request Submission dated July 14, 2017



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MANITOBA INDUSTRIAL POWER USERS GROUP (MIPUG)

Ex. #	MIPUG-1	MIPUG's Minimum Filing Requirements
Ex. #	MIPUG-2	MIPUG's Interim Rate Response letter dated May 25, 2017
Ex. #	MIPUG-2-1	Attachment 1 to MIPUG's letter dated May 25, 2017
Ex. #	MIPUG-3	MIPUG Budget Submission
Ex. #	MIPUG-4	Submission on Interim Rate Request dated July 14, 2017
Ex. #	MIPUG-5	2017/18 Interim Rate Supporting Materials - July 18, 2017 Presentation
Ex. #	MIPUG-6	MIPUG's response to Manitoba Hydro's comments on Budgets - July 25, 2017
Ex. #	MIPUG-7	MIPUG to Manitoba Hydro - Round 1 Information Requests
Ex. #	MIPUG-7-1	" " " " " " Model scenario for Keeyask costs
Ex. #	MIPUG-7-2	" " " " " " Financial forecasts to recover to target level over 20 year period

Ex. #	MIPUG-7-3	"	"	"	"	"	"	Export Price and Interest Rate Probabilities
Ex. #	MIPUG-7-4	"	"	"	"	"	"	RCC Range History
Ex. #	MIPUG-7-5	"	"	"	"	"	"	Time of Use rates for industrial customers
Ex. #	MIPUG-7-6	"	"	"	"	"	"	Efficient Manitoba Act - net Movement in Regulatory Deferral Accounts
Ex. #	MIPUG-7-7	"	"	"	"	"	"	Total Debt
Ex. #	MIPUG-7-8	"	"	"	"	"	"	S&P rating methodology financial risk
Ex. #	MIPUG-7-9	"	"	"	"	"	"	breakdown of increase in financial expense between 2014/15 and 2016/17
Ex. #	MIPUG-7-10	"	"	"	"	"	"	Long-term dependable forecast prices
Ex. #	MIPUG-7-11	"	"	"	"	"	"	Reconciliation of Revenue
Ex. #	MIPUG-7-12	"	"	"	"	"	"	PCOSS14 Compliance filing without deducting Net Export Revenue (NER)
Ex. #	MIPUG-7-13	"	"	"	"	"	"	Chart back to actual results to 1986/87
Ex. #	MIPUG-7-14	"	"	"	"	"	"	Calculations for Interest Allocated to Construction by year
Ex. #	MIPUG-7-15	"	"	"	"	"	"	Credit rating agencies in rating reports and recommendations
Ex. #	MIPUG-7-16	"	"	"	"	"	"	extend to show 20 year financial forecast
Ex. #	MIPUG-7-17	"	"	"	"	"	"	CV's for HM Staff
Ex. #	MIPUG-7-18	"	"	"	"	"	"	5 year and 7 year drought impacts for MH16

Ex. #	MIPUG-7-19	" " " " " "	Extended Table for forecast years
Ex. #	MIPUG-7-20	" " " " " "	cash flow requirements regarding further borrowing and debt management plans
Ex. #	MIPUG-7-21	" " " " " "	compare 2016-2017 Load Forecast
Ex. #	MIPUG-7-22	" " " " " "	20 year financial forecast schedule for MH16
Ex. #	MIPUG-7-23	" " " " " "	schedule of rate increases to target customer class TCC
Ex. #	MIPUG-8		MIPUG re Scope of Work for Independent Expert Consultants - August 9, 2017
Ex. #	MIPUG-9		MIPUG to Manitoba Hydro - Round 2 Information Requests
Ex. #	MIPUG-9-1	" " " " " "	Interm rate Increases, annual values
Ex. #	MIPUG-9-2	" " " " " "	Retaining earnings needed to achieve target specified targeted date
Ex. #	MIPUG-9-3	" " " " " "	Figure 3-1 from Appendix 4.1 updated
Ex. #	MIPUG-9-4	" " " " " "	DBRS Retained Earnings as measure of equity, AOCI effectively not included as offset
Ex. #	MIPUG-9-5	" " " " " "	GSL 30-11kV and GSL>100kV revenue forecast for 2017/18 and 2018/19
Ex. #	MIPUG-9-6	" " " " " "	Calculates Marginal Costs
Ex. #	MIPUG-9-7	" " " " " "	Additions of regulatory deferral accounts for loss on disposal of assets
Ex. #	MIPUG-9-8	" " " " " "	Breakdowns of Allocation, Customer Class share for non energy revenue
Ex. #	MIPUG-9-9	" " " " " "	Interest rate used for Keeyask borrowings
Ex. #	MIPUG-9-10	" " " " " "	Deferred overhead balance by year to Major New Generation and Transmission v. Capital Projects

Ex. #	MIPUG-9-11	" " " " " "	Supplemental Filing Loss on Disposal of Assets
Ex. #	MIPUG-9-12	" " " " " "	DSM Deferral
Ex. #	MIPUG-9-13	" " " " " "	Evaluate proposed ELG Amortisation Approach
Ex. #	MIPUG-9-14	" " " " " "	Gains on disposal and on retirement
Ex. #	MIPUG-9-15	" " " " " "	change to ELG, and net effects of higher cost
Ex. #	MIPUG-9-16	" " " " " "	amortization of ELG/ASL difference
Ex. #	MIPUG-9-17	" " " " " "	Financial Structure and Regulatory framework
Ex. #	MIPUG-9-18	" " " " " "	offset to cost and cost impacts of Bipole III
Ex. #	MIPUG-9-19	" " " " " "	Weighted Average Term to Maturity
Ex. #	MIPUG-9-20	" " " " " "	Considered Borrowing requirements & Maturity Schedule
Ex. #	MIPUG-9-21	" " " " " "	Contact Centre - Outages and Marketing R&D use and importance
Ex. #	MIPUG-10		MIPUG re Scope of Work for Independent Expert Consultants - Daymark Consultants - September 21, 2017
Ex. #	MIPUG-11		MIPUG to Business Council of Manitoba re Issues and Proposed Evidence - September 21, 2017
Ex. #	MIPUG-12		MIPUG response to Manitoba Hydro's September 7, 2017 CSI Motion - September 27, 2017 and October 4, 2017
Ex. #	MIPUG-13		Prefiled Testimony of Patrick Bowman
Ex. #	MIPUG-14		Prefiled Testimony of Cameron Osler and Gerry Forrest
Ex. #	MIPUG-15		Supplementary Background Papers

Ex. #	MIPUG-16	MIPUG to AMC Information Request			
	MIPUG-16-1	"	"	"	Shortfall arising from Low Income Program
Ex. #	MIPUG-17	MIPUG to Coalition (Simpson) Information Request			
		"	"	"	Carbon Pricing
Ex. #	MIPUG-18	MIPUG to Coalition (Harper) Information Request			
		"	"	"	improving regulatory review of Capital Plan
Ex. #	MIPUG-19	MIPUG to GAC Information Request			
		"	"	"	Marginal Cost Estimates, weaknesses
Ex. #	MIPUG-20	MIPUG to Daymark (Load Forecast) Information Request			
Ex. #	MIPUG-20-1	"	"	"	Base load forecast and Price Elasticity
Ex. #	MIPUG-21	MIPUG to Dr. Adonis Yatchew Information Request			
Ex. #	MIPUG-21-1	"	"	"	Effect of Proposed Hydro Rate Increase on Manitoba Economy
Ex. #	MIPUG-21-2	"	"	"	Impact on Industry
Ex. #	MIPUG-21-3	"	"	"	Provincial electricity demand
Ex. #	MIPUG-21-4	"	"	"	Economic Impact - taxes
Ex. #	MIPUG-22	Opening Statement			
Ex. #	MIPUG-23-1	MIPUG Book of Documents 1 - Policy Panel			

Ex. #	MIPUG-23-2	MIPUG Book of Documents 2 - Revenue Requirement Panel	
Ex. #	MIPUG-23-3	MIPUG Book of Documents 3 - Rate Design and COSS Panel	
Ex. #	MIPUG-24	MIPUG to MGF - Information Requests	
Ex. #	MIPIG -24 -1	" " " " " "	General MGF Report
Ex. #	MIPIG -24 -2	" " " " " "	General Prudence
Ex. #	MIPIG -24 -3	" " " " " "	Executive Summary -GCC
Ex. #	MIPIG -24 -4	" " " " " "	Cost Estimates
Ex. #	MIPUG-25	MIPUG to MGF (KCB) Information Requests	
Ex. #	MIPUG-25-1	" " " " " "	MIPUG-25-2
Ex. #	MIPUG-25-2	" " " " " "	MIPUG-25-3
Ex. #	MIPUG-26	MIPUG Presentation - Patrick Bowman, Cam Osler and Gerry Forest	
Ex. #	MIPUG-27	Reference Documents for MIPUG Presentation	
Ex. #	MIPUG-28	MIPUG to all parties re Legal Argument - January 29, 2018	
Ex. #	MIPUG-29	2013 Electric Load Forecast	
Ex. #	MIPUG-30	MIPUG Undertaking 65 - Water Rentals	
Ex. #	MIPUG-31	MIPUG Undertaking Transcript Page 6469-6470 - Unit Costs Hydro Domestic System	
Ex. #	MIPUG-32	Figures for Cross of MH Rebuttal - for Identification	

Ex. #	MIPUG-33	Final Argument with Attachments
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MANITOBA KEEWATINOWI OKIMAKANAK (MKO)

Ex. #	MKO -1	MKO's suggested Minimum Filing Requirements (MFRs)
Ex. #	MKO -2	MKO's Submission on Interim Rates dated May 26, 2017
Ex. #	MKO -3	MKO Comment on Interim Rate Request - email dated July 14, 2017
Ex. #	MKO -4	Detailed Budget Submission
Ex. #	MKO -5	MKO to MH Round 1 Information Requests
Ex. #	MKO-5-1	" " " " " " MKO FN communities Customer Accounts
Ex. #	MKO-5-2	" " " " " " Number of low-income customers
Ex. #	MKO-5-3	" " " " " " Residential Customer accounts
Ex. #	MKO-5-4	" " " " " " Removal of Mirigation cot from rates
Ex. #	MKO-5-5	" " " " " " Natural Gas Services
Ex. #	MKO-5-6	" " " " " " filing next Diesel Community rate Application
Ex. #	MKO-5-7	" " " " " " DSM program in MKO

Ex. #	MKO-5-8	" " " " " " Percentage increase in use
Ex. #	MKO -6	MKO Letter to all parties re Legal Argument - January 29, 2018
Ex. #	MKO -7	MKO Final Submission



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Daymark Energy Advisors (DEA) Exhibits

Ex. #	DEA- 1	Daymark Energy Advisors Report - Exports	
Ex. #	DEA-2-1	Daymark Energy Advisors Report - Forecast Revised November 28, 2017	
Ex. #	DEA-2-2	Daymark Energy Advisors Errata to Load Forecast Report Review	
Ex. #	DEA-3	W. Haight to R. Peters and D. Steineld Letter re IEC Reports - CSI Process dated November 23, 2017	
Ex. #	DEA-4	Daymark Energy Advisors Report - Saskpower	
Ex. #	DEA-5	Daymark Energy Advisors Load Forecast Presentation	
Ex. #	DEA-6	Daymark Energy Advisors Load Forecast CVs	
Ex. #	DEA-6-1	" " " " " "	CV of Kathleen Kelly
Ex. #	DEA-6-2	" " " " " "	CV of Suman Gautam
Ex. #	DEA-7	Daymark Energy Advisors Export Presentation	
Ex. #	DEA-8	Daymark Energy Advisors Export CVs	
Ex. #	DEA-8-1	" " " " " "	CV of Dan Peaco

Ex. #	DEA-8-2	" " " " " "	CV of Doug Smith
Ex. #	DEA-9 CSI	Daymark Energy Advisors Export Revenue Presentation - Confidential	
Ex. #	DEA-10	Daymark Energy Advisors Saskpower Presentation	
Ex. #	DEA-11 CSI	Daymark Energy Advisors Saskpower Presentation - Confidential	
Ex. #	DEA-12	Daymark Energy Advisors Load Forecast Undertakings 45-47	
Ex. #	DEA-13	Daymark Energy Advisors Exports Undertaking 48 - Carbon Values	

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Dr. Adonis Yatchew (AY) Exhibits

Ex. #	AY-1	Yatchew's Report
Ex. #	AY-2	Dr. Yatchew's Presentation
Ex. #	AY-3	Dr. Yatchew CV
Ex. #	AY-4	Dr. Yatchew Undertaking 1 - CO2 per Capita
Ex. #	AY-5	Dr. Yatchew Undertaking 2 - per capita debt in Manitoba

Ex. #	MGF-4	MGF Presentation	
Ex. #	MGF-4-1	" " " " " " " "	MGF -Keeyask Estimated Project Values
Ex. #	MGF-5	Amplitude Presentation	
Ex. #	MGF-6	KCB Presentation	
Ex. #	MGF-7 CSI	MGF Confidential Presentation	
Ex. #	MGF-8 CSI	Amplitude Confidential Presentation	
Ex. #	MGF-9 CSI	KCB Confidential Presentation	
Ex. #	MGF-10	MGF Undertakings 73 and 74	