



“When You Talk - We Listen!”



MANITOBA PUBLIC UTILITIES BOARD

Re :

MANITOBA HYDRO

2017/18 and 2018/19

GENERAL RATE APPLICATION

PUBLIC HEARING

Before Board Panel:

- Robert Gabor - Board Chairperson
- Marilyn Kapitany - Vice-Chairperson
- Larry Ring, QC - Board Member
- Shawn McCutcheon - Board Member
- Sharon McKay - Board Member
- Hugh Grant - Board Member

HELD AT:

Public Utilities Board

400, 330 Portage Avenue

Winnipeg, Manitoba

December 4, 2017

Pages 1 to 309

## APPEARANCES

1  
2 Bob Peters ) Board Counsel  
3 Dayna Steinfeld )  
4  
5 Patti Ramage ) Manitoba Hydro  
6 Odette Fernandes )  
7  
8 Byron Williams ) Consumers Coalition  
9 Katrine Dilay )  
10  
11 William Gange ) GAC  
12 Peter Miller )  
13  
14 Antoine Hacault ) MIPUG  
15  
16 George Orle ) MKO  
17  
18 Senwung Luk ) Assembly of  
19 Corey Shefman ) Manitoba Chiefs  
20  
21 Kevin Williams ) Business Council  
22 Douglas Finkbeiner ) of Manitoba  
23  
24 Daryl Ferguson ) City of Winnipeg  
25



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3	PUB-1	PUB letter to Manitoba Hydro dated	
4		March 17, 2017 re 2017 Rate	
5		Applications	
6	PUB-2	PUB Rules of Practice and Procedure	
7	PUB-3	PUB letter to Manitoba Hydro and	
8		Intervenors of Record dated March	
9		31, 2017 re Planning Meeting and	
10		Minimum Filing Requirements (MFRs)	
11	PUB-4	Order in Council 92/2017 dated	
12		April 5, 2017	
13	PUB-5	PUB letter to Manitoba Hydro and	
14		Intervenors of Record dated April	
15		24, 2017 re Intervener Proposed	
16		MFR and Additional PUB MFRs	
17	PUB-6	PUB cover letter for public notice	
18		- dated May 9, 2017	
19	PUB-7	PUB public notice - Manitoba Hydro's	
20		rate application	
21	PUB-8	PUB to Manitoba Hydro and Intervenors	
22		of Record re August 1, 2017 interim	
23		rate request and GRA process matters	
24		dated May 17, 2017	
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1	LIST OF EXHIBITS	
2	EXHIBIT NO.	PAGE NO.
3	PUB-9	PUB to Manitoba Hydro re Revised
4		Minimum Filing Requirements of the
5		Public Utilities Board dated May
6		23, 2017
7	PUB-10	PUB to all parties re process matters
8		dated May 26, 2017
9	PUB-11	PUB to potential new Intervenors re
10		process matters dated May 26, 2017
11	PUB-12	PUB to all parties re August 1, 2017
12		interim rate request review process
13		dated June 9, 2017
14	PUB-13	PUB to all parties re interim rate
15		request oral hearing - dated June
16		15, 2017
17	PUB-14	PUB Order No. 70/17 - Procedural
18		Order in respect of Manitoba Hydro's
19		2017/18 and 2018/1 General Rate
20		Application - June 30, 2017
21	PUB-15	PUB's response to the Coalition's
22		letter re cost of service model
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1	LIST OF EXHIBITS		
2	EXHIBIT NO.	DESCRIPTION	PAGE NO.
3	PUB-16	PUB Order No. 82/17 - an Order in	
4		request of Manitoba Hydro's process	
5		motion for confidential and	
6		commercially sensitive documents	
7		requested in Manitoba Hydro's 2017/18	
8		and 2018/19 General Rate Application	
9		- July 28, 2017	
10	PUB-17	PUB Order No. 80/17 - an Order in	
11		request of Manitoba Hydro's	
12		application for a 7.9 percent interim	
13		rate increase effective August 1,	
14		2017 - July 31, 2017	
15	PUB-18	PUB Order No. 85/17 - Order approving	
16		Manitoba Hydro's rate filings for	
17		August 1, 2017 rates - August 3, 2017	
18	PUB-19	Public Utilities Board (PUB) to	
19		Manitoba Hydro (MANITOBA HYDRO) -	
20		Round 1 Information Requests	
21	PUB-20	PUB letter dated August 18, 2017 to	
22		Manitoba Hydro re Round 1 Information	
23		Requests (1-158)	
24	PUB-21	PUB letter re City of Winnipeg's	
25		request to intervene - August 25, 2017	

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2	EXHIBIT NO.	DESCRIPTION	PAGE NO.
3	PUB-22	PUB letter dated August 25, 2017 re	
4		Intervenor budgets	
5	PUB-23	PUB letter dated September 11, 2017	
6		re Rule 13 motion by Manitoba Hydro	
7	PUB-24	PUB letter dated September 15, 2017	
8		re GSS-GSM and KAP request to	
9		intervene and Intervenor budgets	
10	PUB-25	PUB letter dated September 26, 2017	
11		re Manitoba Hydro's Round 1	
12		Information Requests Rule 13 motion	
13	PUB-26	Public Utilities Board (PUB) to	
14		Manitoba Hydro (MANITOBA HYDRO) - Round	
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16		Information Requests (1-94)	
17	PUB-27	PUB to all parties re Independent	
18		expert consultants report deadlines	
19		and revised MGF scope of work -	
20		October 5, 2017	
21	PUB-28	Business Council of Manitoba's	
22		application to review and vary Public	
23		Utilities Board decision of August	
24		25, 2017 - October 16, 2017	
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EXHIBIT NO.	DESCRIPTION	PAGE NO.
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	
PUB-30	PUB to all parties re independent expert consultants' scope of work - October 25, 2017	
PUB-31	PUB Order 120/17 - an application by Manitoba Hydro to review and vary Order 112/17	
PUB-32	PUB to AMC - Information Requests (1-4)	
PUB-33	PUB to Coalition - Information Requests (1-33)	
PUB-34	PUB to Green Action Centre (GAC) - Information Requests (1-4)	
PUB-35	PUB to GSS-GSM-KAP - Information Requests (1-12)	
PUB-36	PUB to MIPUG - Information Requests (1-7)	

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5	November 29, 2016 re timing of
6	electric GRA
7	MH-2 Manitoba Hydro letter to PUB dated
8	March 24, 2017 re intentions in
9	respect of 2017 Rate Application(s)
10	MH-3 Manitoba Hydro letter to PUB dated
11	April 12, 2017 re minimum filing
12	requirements and scope of the upcoming
13	General Rate Application.
14	MH-4 Manitoba Hydro letter dated May 5,
15	2017 re General Rate Application.
16	MH-5 Manitoba Hydro 2017/18 and 2018/19
17	General Rate Application
18	MH-6 Manitoba Hydro letter dated May 12,
19	2017 re General Rate Application
20	MH-7 Manitoba Hydro cover letter dated May
21	26,2017 re General Rate Application
22	and MFRs
23	MH-8 Manitoba Hydro to PUB letter dated
24	June 2, 2017 re August 1, 2017 interim
25	rates

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3	MH-9	Manitoba Hydro's written submission
4		on interim rates dated June 20, 2017
5	MH-10	Manitoba Hydro cover letter dated
6		June 21, 2017 re General Rate
7		Application and MFRs
8	MH-11	Manitoba Hydro cover letter dated
9		June 23, 2017 re General Rate
10		Application and MFRs
11	MH-12	Manitoba Hydro cover letter dated
12		June 30, 2017 re General Rate
13		Application and MFRs
14	MH-13	Manitoba Hydro letter dated July 11,
15		2017 re updated financial forecast
16	MH-14	Manitoba Hydro CSI process motion -
17		dated July 11, 2017
18	MH-15	Manitoba Hydro interim rates August
19		1, 2017 reply submission - July 19,
20		2017
21	MH-16	Presentation by Manitoba Hydro -
22		business operations, capital and asset
23		management technical conference -
24		July 20, 2017
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4		operations, capital and asset
5		management technical conference -
6		July 20, 2017
7	MH-18	Response to the Coalition's letter
8		re cost of service (COS) model
9	MH-19	Manitoba Hydro response letter to
10		Intervenor budget submission -
11		July 21, 2017
12	MH-20	COS model access - email dated July
13		26, 217
14	MH-21	Manitoba Hydro comments on Business
15		Council of Manitoba's budget
16		submission - July 28, 2017
17	MH-22	Manitoba Hydro - rate schedules
18		further to Order 80/17 - August 1, 2017
19	MH-23	Proof of revenues based on 2017
20		electric load forecast - August 2, 2017
21	MH-24	Manitoba Hydro to PUB re City of
22		Winnipeg's proposed intervention dated
23		August 2, 2017
24	MH-25	Manitoba Hydro to PUB re Information
25		Requests - August 2, 2017

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3	MH-26	Revised rate schedules to be	
4		effective August 1, 2017 - area and	
5		roadway lighting (Outdoor lighting)	
6		light emitting diode (LED) rates -	
7		letter dated August 24, 2017	
8	MH-27	Letter from KA Shepherd of Manitoba	
9		Hydro re First Round Information	
10		Requests - September 5, 2017	
11	MH-28	Manitoba Hydro - CSI motion - September	
12		7, 2017	
13	MH-29	Manitoba Hydro to PUB re remaining	
14		minimum filing requirements - September	
15		7, 2017	
16	MH-30	Manitoba Hydro re appendix 9.14 report	
17		on rate design for the residential	
18		class - September 14, 2017	
19	MH-31	Manitoba Hydro to PUB re independent	
20		expert consultants status and scope -	
21		September 18, 2017	
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3	MH-33	Manitoba Hydro to PUB re revised	
4		Information Requests - September 21,	
5		2017	
6	MH-34	Manitoba Hydro to PUB re independent	
7		expert consultants scope of work -	
8		October 2, 2017	
9	MH-35	Manitoba Hydro CSI motion - Manitoba	
10		Hydro reply to Intervenor submissions	
11		- October 6, 2017	
12	MH-36	Manitoba Hydro to PUB re Round II	
13		Information Requests - October 16, 2017	
14	MH-37	Manitoba Hydro to PUB re revised Round	
15		I Information Request - October 24,	
16		2017	
17	MH-38	Manitoba Hydro request to review and	
18		vary Order 112/17 - October 30, 2017	
19	MH-39	Manitoba Hydro to AMC Information	
20		Request (1-8)	
21	MH-40	Manitoba Hydro Coalition (Compton/ Simpson) Information Requests (1-6)	
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23	MH-41	Manitoba Hydro to Coalition (ECS)	
24		Information Requests (1-16)	
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3	MH-42	Manitoba Hydro to Coalition (METSCO)
4		Information Requests (1-5)
5	MH-43	Manitoba Hydro to Coalition (Simpson)
6		Information Requests (1-25)
7	MH-44	Manitoba Hydro to Coalition (MPA)
8		Information Requests (1-25)
9	MH-45	Manitoba Hydro to Green Action Centre
10		(GAC) Information Requests (1-10)
11	MH-46	Manitoba Hydro to GSS/GSM - KAP
12		Information Requests (1-12)
13	MH-47	Manitoba Hydro to MIPUG (Bowman)
14		Information Requests (1-24)
15	MH-48	Manitoba Hydro to MIPUG (Osler/Forrest)
16		Information Requests (1-5)
17	MH-49	Manitoba Hydro to UB revised MFRs
18	MH-50	Manitoba Hydro to City of Winnipeg
19		(COW) Information Requests (1-9)
20	MH-51	Manitoba Hydro - CSI motion - Round II
21		Information Request - November 21,
22		2017
23	MH-52	Manitoba Hydro rebuttal evidence -
24		November 22, 2017
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AMC-1	Assembly of Manitoba Chiefs letter re	
	interim rates dated July 14, 2017	
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AMC-2-1	Issues list for AMC budget	
AMC-3	Reply to Manitoba Hydro's letter dated	
	July 21, 2017 re Intervenor budgets	
AMC-3-1	CV of Philip Raphals	
AMC-4	Assembly of Manitoba Chiefs (AMC) to	
	Manitoba Hydro (MH) - Round I	
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AMC-5	Letter in response to Manitoba Hydro's	
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AMC-6	Assembly of Manitoba Chiefs (AMC) to	
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4		(email dated July 12, 2017)
5	BcoM-2	Intervenor budget submission
6	BCoM-3	Business Council of Manitoba's letter
7		to PUB re issues and expert evidence
8		- September 15, 2017
9	BCoM-4	Business Council of Manitoba's review
10		and vary application re Intervenor
11		budget decision - September 25, 2017
12	BCoM-5	Business Council of Manitoba to
13		Coalition (Simpson/Compton) -
14		Information Requests (1-34)
15	BcoM-6	Business Council of Manitoba to MIPUG
16		- Information Requests (1-32)
17	COW-1	Email from City of Winnipeg dated April
18		7, 2017 re: Hydro's intentions in
19		respect of 2017 rate application.
20	COW-2	Report by City of Winnipeg - October
21		31, 2017
22	CC-1	Consumer Coalition letter dated March
23		28, 2017 re Manitoba Hydro's March
24		24, 2017 letter
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3	CC-2	Minimum filing requirements (MFRs) of
4		the Consumer Coalition
5	CC-3	Coalition letter re Manitoba Hydro's
6		interim rate application dated May
7		26, 2017
8	CC-3-1	Appendix A- An interim rate addiction
9		table.
10	CC-3-2	Appendix B - Interim rate request.
11	CC-4	"Rate Shock and Malleable Metrics:
12		Avoiding an Unreasonable Rush to
13		Judgment" - submission of the
14		Consumers Coalition re interim rate
15		request
16	CC-4-1	July 17, 2017 revised - "Rate Shock
17		and Malleable Metrics: Avoiding an
18		Unreasonable Rush to Judgment" -
19		submission of the Consumers Coalition
20		re Interim rate request.
21	CC-4-2	July 18, 2017 revised: "Rate Shock
22		and Malleable Metrics: Avoiding an
23		Unreasonable Rush to Judgment" -
24		submission of the Consumers Coalition
25		re Interim rate request.

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3	CC-5	Budget submission dated July 14, 2017	
4	CC-5-1	Attachment A - draft budget and work	
5		plan	
6	CC-5-2	Attachment B - issues list	
7	CC-6	"Avoiding a Rate Shock Rush to	
8		Judgment" - presentation by the	
9		Consumer Coalition - July 18, 2017	
10	CC-6-1	Revised - "Avoiding a Rate Shock Rush	
11		to Judgment" - presentation by the	
12		Consumer Coalition - July 18, 2017.	
13	CC-7	Letter dated July 18, 2017 re	
14		Revised interim rate submission	
15	CC-8	Letter re Cost of Service Model - dated	
16		July 20, 2017	
17	CC-9	Coalition response to MH's comments on	
18		Intervenor budgets - July 24, 2017	
19	CC-10	Consumers Coalition to Manitoba Hydro	
20		- Round I Information Requests (1-249)	
21	CC-11	Consumers Coalition to Business Council	
22		of Manitoba re Request for Information	
23		on proposed evidence - September 18,	
24		2017	
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4		- Round II Information Requests (1-89)
5	CC-13	Consumers Coalition to PUB re
6		Proposed scope of work for the
7		independent expert consultants
8		retained by the PUB - September 22,
9		2017
10	CC-14	Consumers Coalition response to
11		Manitoba Hydro's September 7, 2017
12		CSI motion - September 26, 2017
13	CC-14-1	Appendices to Consumers Coalition CSI
14		motion response
15	CC-15	Consumers Coalition re revised budget
16		for Dr. Gotham - September 26, 2017
17	CC-15-1	Revised budget and workplan for Dr.
18		Gotham - Blackline.
19	CC-15-2	Revised budget and workplan for Dr.
20		Gotham - Clean.
21	CC-16	Letter from Coalition re filing of
22		Consumers Coalition evidence.
23	CC-17	Review of Manitoba Hydro financial
24		targets: Report to the Manitoba PUB
25		by Morrison Park Advisors (MPA)

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3	CC-18	The effect of the proposed Hydro rate
4		increase on the Manitoba economy by
5		Dr. Janice Compton and Dr. Wayne
6		Simpson
7	CC-19	Review of Manitoba Hydro's 2017/18
8		and 2018/19 GRA sustainment capital
9		by METSCO Energy Solutions Inc.
10	CC-20	Manitoba Public Utilities Board:
11		Manitoba Hydro's 2017/18 and 2018/19
12		General Rate Application by William
13		Harper, Econalysis Consulting Services.
14	CC-21	Energy Poverty in Manitoba and the
15		impact of the proposed Hydro rate
16		increase: An assessment of the bill
17		affordability study in the Manitoba
18		Hydro GRA - by Dr. Wayne Simpson
19	CC-22	Consumers Coalition to AMC -
20		Information Requests (1-4)
21	CC-23	Consumers Coalition to Green Action
22		Centre (GAC) - Information Requests
23		(1-10)
24	CC-24	Consumers Coalition to GSS-GSM/KAP -
25		Information Requests (1)

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3	CC-25	Consumers Coalition to MIPUG -
4		Information Requests (1-3)
5	CC-26	Consumers Coalition cover letter
6		dated November 16, 2017
7	CC-27	Consumers Coalition to City of
8		Winnipeg (COW) - Information Requests
9		(1-2)
10	GSS-GSM-1	Submission on Interim rate request
11		application.
12	GSS-GSM-2	Letter to PUB re budget dated July 14,
13		2017
14	GSS/GSM-2-1	London Economics International LLC
15		(LEI) proposed budget
16	GSS/GSM-2-2	AJ Goulding - curriculum vitae
17	GSS/GSM-3	Email re MH's comments on Intervenor
18		budgets - July 26, 2017
19	GSS/GSM-4	GSS/GSM to Manitoba Hydro - Round I
20		Information Requests (1-9)
21	GSS/GSM-5	GSS/GSM letter re combined
22		intervention with KAP - August 22, 2017
23	GSS/GSM-6	GSS/GSM revised budget for London
24		Economics International - September
25		6, 2017

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4		2017
5	GSS/GSM-8	GSS/GSM to Manitoba Hydro - Round II
6		Information Requests (1-3)
7	GSS/GSM-9	London Economics evidence.
8	GSS/GSM-10	GSS/GSM to Consumers Coalition
9		(Compton/Simpson) - Information
10		Requests (1)
11	GSS/GSM-11	GSS/GSM to MIPUG - Information
12		Requests (1)
13	GSS/GSM-12	GSS/GSM to Consumers Coalition (MPA)
14		Information Requests (1-2)
15	GAC-1	Green Action Centre letter dated
16		April 7, 2017 re scope of proposal
17		2017 General Rate Application.
18	GAC-2	GAC's minimum filing requirements
19		(MFRs)
20	GAC-3	GAC position on interim rate increase
21		- dated May 26, 2017
22	GAC-4	Interim rate request submission
23	GAC-5	GAC letter to PUB re budget submission
24		dated July 14, 2017
25	GAC-5-1	GCH budget

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GAC-8	GAC letter re rate design for affordability - July 31, 2017	
GAC-9	Green Action Centre (GAC) to Manitoba Hydro (MH) - Round II Information Requests (1-29)	
GAC-10	GAC's position re Manitoba Hydro's CSI motion - September 27, 2017	
GAC-11	Paul Chernick's direct testimony	
GAC-12	Green Action Centre (GAC) to Coalition (ECS) - Information Requests (1-3)	
GAC-13	Green Action Centre to MIPUG - Information Requests (1-3)	
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KAP-2	Interim rate request submission dated July 14, 2017	



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3	MIPUG-1	MIPUG's minimum filing requirements
4		(MFRs)
5	MIPUG-2	MIPUG's interim rate response letter
6		dated May 25, 2017
7	MIPUG-2-1	Attachment 1 to MIPUG's letter dated
8		May 25, 2017
9	MIPUG-3	Budget submission
10	MIPUG-4	Submission on interim rate request
11		dated July 14, 2017
12	MIPUG-5	2017/18 interim rate supporting
13		materials - July 18, 2017 presentation
14	MIPUG-6	MIPUG's response to Manitoba Hydro's
15		comments on budgets - July 25, 2017
16	MIPUG-7	MIPUG to Manitoba Hydro - Round I
17		Information Requests (1-23)
18	MIPUG-8	MIPUG re scope of work for independent
19		expert consultants - August 9, 2017
20	MIPUG-9	MIPUG to Manitoba Hydro - Round II
21		Information Requests (1-21)
22	MIPUG-10	MIPUG re scope of work for independent
23		expert consultants - Daymark
24		Consultants - September 21, 2017
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4		Manitoba re issues and proposed
5		evidence - September 21, 2017
6	MIPUG-12	MIPUG response to Manitoba Hydro's
7		September 7, 2017 CSI motion -
8		September 27, 2017
9	MIPUG-13	Pre-filed testimony of Patrick Bowman
10	MIPUG-14	Pre-filed testimony of C.F. Osler and
11		G.D. Forrest
12	MIPUG-15	Supplementary background papers in
13		support of testimonies of P. Bowman,
14		C.F. Osler and G.D. Forrest
15	MIPUG-16	MIPUG to AMC - Information Request (1)
16	MIPUG-17	MIPUG to Coalition (Compton/Simpson)
17		- Information Request (1)
18	MIPUG-18	MIPUG to Coalition (ECS) - Information
19		Request (1)
20	MIPUG-19	MIPUG to Green Action Centre (GAC) -
21		Information Request (1)
22	MKO-1	MKO's suggested minimum filing
23		requirements (MFRs)
24	MKO-2	MKO's submission on interim rates dated
25		May 26, 2017

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3	MKO-3	MKO comment on interim rate request -	
4		email dated July 14, 2017	
5	MKO-4	Detailed budget submission	
6	MKO-5	MMO to Manitoba Hydro - Round I	
7		Information Requests (1-8)	
8	DEA-1	Daymark Energy Advisors Report -	
9		Export.	
10	DEA-2	Daymark Energy Advisors Report -	
11		Forecast.	
12	DEA-3	Haight to Peters and Steinfeld letter	
13		re: Daymark Energy Advisors IEC	
14		report dated November 23, 2017	
15	AY-1	Dr. Adonis Yatchew report	
16	GAC-14	Opening statement of GAC	82
17	CC-31	Opening Statement of Consumers	
18		Coalition	89
19	MIPUG-22	Opening Comments by MIPUG	98
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1 --- Upon commencing at 9:02 a.m.

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3 THE CHAIRPERSON: Good morning  
4 everyone. Welcome and thank you for your attention as  
5 I call this public hearing to order. Today is the  
6 first day of the oral evidentiary public hearing for  
7 the General Rate Application filed by Manitoba Hydro.

8 During this hearing, the Public  
9 Utilities Board will hear the evidence for Manitoba  
10 Hydro, witnesses, Intervenor expert witnesses, and  
11 independent expert consultants all related to issues  
12 that arise as a result of Manitoba Hydro's rate  
13 increase request of this Board.

14 My name is Robert Gabor, and I am the  
15 chair of the Public Utilities Board; with me on this  
16 hearing, are vice-chair Marilyn Kapitany, Board member  
17 Shawn McCutcheon; to my left, Dr. Hugh Grant; Board  
18 member Sharon McKay, and Board member Larry Ring, QC.

19 I want to take this opportunity to  
20 publicly thank my colleagues on this hearing panel for  
21 their dedication and service to date as what will be  
22 required in the weeks and months ahead. The panel has  
23 met to consider the prehearing conference and the  
24 status of Intervenor applications and budgets;  
25 Manitoba Hydro's interim rate request; Manitoba

1 Hydro's process motion to deal with confidential  
2 information; a number of motions under Rule 13 of the  
3 Board's rules of practice and procedure regarding  
4 confidentiality; process requests of the parties,  
5 including scheduling and review of the application;  
6 and evidence filed by all parties.

7           The Board will be assisted during this  
8 hearing by associate Board secretary Kurt Simonsen,  
9 judicial hearing officer Diana Villegas, and judicial  
10 hearing assistant Kristen Schubert, Digi-Tran through  
11 Cheryl Lavigne will provide the daily transcripts,  
12 which will be posted on the Board's website, together  
13 with the exhibits introduced into evidence.

14           I will call on Board counsel shortly to  
15 introduce the Board advisors. At this time, I'd like  
16 to acknowledge that the Treaty 1 lands on which we now  
17 gather for this hearing and the Treaty 2, 3, 4 and 5  
18 lands, included in Manitoba Hydro's service  
19 territories are the traditional territories of the  
20 Anishinaabe Cree, Oji-Cree, Dakota and Dene peoples,  
21 as well as the homeland of the Metis Nation.

22           Included in Manitoba Hydro's General  
23 Rate Application are requests for Public Utilities  
24 Board approval of three (3) separate rate increases  
25 that apply to all components of the rates for all

1 customer classes. First, the August 1st, 2016 rate  
2 increase of 3.36 percent, which was approved in Order  
3 59/16 on an interim basis for all customer classes.  
4 This rate exists as an interim rate which Manitoba  
5 Hydro requests be approved as a final rate in this  
6 General Rate Application. The Board has the  
7 discretion to confirm the rate or vary it up or down.

8           Second, Manitoba Hydro requests that a  
9 7.9 percent interim rate increase for all customer  
10 classes effective August 1st, 2017. In Board Order  
11 80-17 the majority of this hearing panel approved on  
12 an interim basis a 3.36 percent rate increase for all  
13 customer classes effective August 1st, 2017.

14           The additional revenue is to flow into  
15 the previously established Bipole III deferral account  
16 to be used to fund some of the additional costs that  
17 will be incurred when Bipole III comes into service  
18 projected to be July 2018.

19           As with the August 1st, 2016, interim  
20 rate, the final amount of this more recent interim  
21 rate increase may be confirmed or varied up or down as  
22 a result of the Board's determinations in this General  
23 Rate Application.

24           That leads to Manitoba Hydro's third  
25 rate increase -- rate request in the General Rate

1 Application for a further 7.9 percent increase to all  
2 components of rates to every customer class to be  
3 effective April 1st, 2018.

4           This oral public hearing will be  
5 conducted in accordance with the provisions of the  
6 Crown Corporations Governance and Accountability Act,  
7 the Public Utilities Board Act, and the Board's rules  
8 of practice and procedure. It is pursuant to the  
9 legislation that the Board's mandate is to set just  
10 and reasonable rates that are in the public interest.

11           The Board has, quote,  
12           "two concerns when dealing with a  
13           rate application: The interests of  
14           the Utility's ratepayers and the  
15           financial health of the Utility,  
16           together and in the broadest  
17           interpretation, these interest  
18           represent the general public  
19           interest," closed quote,  
20           as set out by the Manitoba Court of  
21 Appeal.

22           In setting just and reasonable rates,  
23 this hearing panel only considers the totality of the  
24 evidence that is adduced on the record of this  
25 proceeding, which includes the written and oral

1 evidence by the applicant, Intervenors and independent  
2 expert consultants, as well as evidentiary  
3 presentation -- presentations made by members of the  
4 public and the submissions for Manitoba Hydro and all  
5 the approved Intervenors.

6           The record of this proceeding is  
7 mirrored on the Board's website already includes  
8 written pre-filed evidence for Manitoba Hydro, written  
9 responses by Manitoba Hydro to minimum filing  
10 requirements, written responses by Manitoba Hydro to  
11 Information Requests, Intervenors' expert evidence and  
12 responses to Information Requests, independent expert  
13 consultants' evidence and responses to Information  
14 Requests, with more still to come. Manitoba Hydro's  
15 rebuttal evidence with more still to come. Board  
16 Orders made to date on proceedings involving this  
17 General Rate Application, including the two (2)  
18 requests for interim rates.

19           Parties are aware that as a result of  
20 its deliberations on the evidence following closing  
21 submissions, the Board may accept, reject or vary any  
22 of the relief sought by Manitoba Hydro in this General  
23 Rate Application.

24           The Board recognizes the diverse  
25 customer groups represented by the approved



1 Intervenor and the Board is also mindful of the  
2 significant and complex issues before it. Please be  
3 reminded that you are to assist the Board in its  
4 understanding of those issues. Please also be  
5 reminded that as has been stressed since the outset of  
6 this hearing process duplication is to be avoided and  
7 cost-effectiveness is to be employed through a  
8 cooperative approach. We ask that all questions and  
9 answers be as concise as possible and on point. If  
10 required, I will interrupt and the Board is prepared  
11 to institute time limitations in order to move the  
12 hearing forward in an orderly manner to complete the  
13 hearing on schedule.

14                   The Manitoba ombudsman has issued  
15 privacy guidelines for administrative tribunals. The  
16 Public Utilities Board is mindful of its obligations  
17 under those guidelines. Its decisions in respect of  
18 the application being considered will be sensitive to  
19 the guidelines. Personal information will not be  
20 disclosed unless it is appropriate and necessary to do  
21 so. However, the Board advises participants that  
22 these proceedings are public and that as a result,  
23 personal information protections are reduced.

24                   While Board counsel will outline  
25 additional procedural aspects of this hearing, you are

1 requested to either turn off your cell phones while in  
2 the hearing room, or at least turn off the ringer and  
3 sound so as not to disrupt proceedings.

4           In an effort to accommodate requests  
5 for fewer hearing days during the week, the Board  
6 intends to be available to sit from 9:00 a.m. until  
7 5:30 p.m. on most hearing days. Times and days may be  
8 extended, if necessary, in order to keep the schedule  
9 but we hope this is not required. In a date -- in  
10 addition to breaking for lunch, there will also be  
11 brief recesses midmorning and midafternoon.

12           As indicated at the prehearing  
13 conference, these proceedings are now being live  
14 streamed through a link on the Board's website. There  
15 are two (2) cameras in this room activated during  
16 proceedings. To assist those watching the live  
17 streaming of the proceedings or following along on the  
18 daily transcripts, the use of acronyms is discouraged.

19           At this time I will call on Board  
20 counsel Dayna Steinfeld to provide opening remarks and  
21 introductions, as well as outline the procedures to be  
22 followed today and for the hearing days ahead. I will  
23 call on Board counsel each morning at the outset of  
24 the day's session to outline the schedule for that  
25 day. Ms. Steinfeld...?

1 OPENING COMMENTS BY BOARD COUNSEL:

2 MS. DAYNA STEINFELD: Thank you and  
3 good morning, Board Chair, Board vice-chair Kapitany,  
4 Board members, Mckay, Ring, McCutcheon and Dr. Grant.  
5 And good morning to all counsel, and parties.

6 This General Rate Application by  
7 Manitoba Hydro appears to have attracted unprecedented  
8 interest among its ratepayers as is evident through  
9 the new Intervenors in this proceeding, and the number  
10 of comments provided by the public to the Board  
11 through its website.

12 Good morning to all those members of  
13 the public who are viewing the proceedings both in --  
14 in person and on the live stream.

15 For the record, my name is Dayna  
16 Steinfeld and together with my colleague Bob Peters,  
17 we are legal counsel to the Public Utilities Board for  
18 this Manitoba Hydro General Rate Application. Also  
19 assisting the Board in this General Rate Application  
20 are Brady Ryall and David Bonin of Ryall Engineering  
21 Limited, the Board's engineering advisor and Roger  
22 Cathcart and Curtis Batten of the Board's accounting  
23 advisor Cathcart Advisors Inc.

24 I would like to welcome Curtis to the  
25 hearing room. We are happy to have him as part of the

1 Board's advisory team.

2                   In addition to the three (3) rate  
3 increases to all components of the rates for all  
4 customer classes detailed by the Board Chair in his  
5 opening remarks, the Board has also been asked by  
6 Manitoba Hydro to approve light-emitting diode rates  
7 for the area and roadway lighting class; remove  
8 festive lighting and Christmas lighting from the area  
9 and roadway lighting tariff; approve surplus energy  
10 program rates and terms and conditions; approve  
11 curtailable rates, programs, orders; approve rates for  
12 the diesel zone communities provided prerequisites  
13 have been met; endorse Manitoba Hydro's proposed  
14 treatment of the costs for the Conawapa generating  
15 station; as well as endorse Manitoba Hydro's proposed  
16 treatment of depreciation expense and operating and  
17 maintenance expense.

18                   Through the witness panels to be called  
19 by Manitoba Hydro, as well as the Intervenors and  
20 independent expert consultants, the Board will hear  
21 oral evidence on issues related to Manitoba Hydro's  
22 requests of the Board.

23                   In an effort to set out the proposed  
24 hearing process, including the timing of the various  
25 witness panels, we have circulated electronically a

1 hearing schedule, and an outline of procedures that  
2 maps out the proposed order of matters to come before  
3 the Board in this General Rate Application. There are  
4 hard copies of these documents available here today as  
5 well. Both the Hearing schedule and outline of  
6 procedures are subject to change at the Board's  
7 direction.

8                   To briefly review the hearing schedule  
9 now, the hearing commences this morning with opening  
10 comments by all parties. We note that while counsel  
11 to the independent expert consultants are in the  
12 hearing room, they have not requested the opportunity  
13 to make opening comments; should that change, we  
14 expect they'll make the appropriate quest -- request  
15 of the Board.

16                   Following opening comments, we will  
17 have direct and cross-examination of Manitoba Hydro's  
18 first witness panel, the executive overview panel.

19                   On Wednesday, December 6th, the Board  
20 will hear direct evidence from Manitoba Hydro's  
21 revenue requirement witness panel followed by cross-  
22 examination by all parties.

23                   Manitoba Hydro's third witness panel,  
24 the cost of service and rate design panel, is  
25 scheduled to commence testimony on December 20th, with

1 cross-examination beginning that day, and continuing  
2 into the January dates when the hearing resumes  
3 following the holiday break.

4                   Manitoba Hydro's fourth witness panel,  
5 the major capital projects panel, will begin giving  
6 testimony on January 18th, 2018.

7                   The Board will also hear from  
8 Intervenor witnesses beginning on scheduled dates in  
9 January 2018, with some Intervenor witnesses giving  
10 testimony prior to the Manitoba Hydro major capital  
11 projects panel and the remaining Intervenor witness  
12 testimony is scheduled for after that fourth panel.

13                   There will also be evidence in this  
14 hearing from independent expert consultants retained  
15 by the Board to give independent evidence on  
16 particular issues as set out in the scopes of work  
17 posted on the Board's website. Some of the  
18 independent expert consultants were provided with and  
19 reviewed confidential information in preparing their  
20 reports. The schedule includes time for in-camera  
21 sessions before the Board which will be confidential  
22 and closed any party or person not granted access to  
23 the confidential information in question.

24                   We remind counsel at this time that  
25 cross-examination should not be used in an attempt to

1 elicit responses that contain confidential  
2 information.

3                   The hearing schedule also includes time  
4 for oral public presentations on January 5th and  
5 February 1st, 2018. These presentations will be  
6 treated as evidence in the proceeding. All those  
7 giving an oral present -- presentation will be asked  
8 to swear or affirm and will be subject to questions  
9 from the Board and parties.

10                   We note that counsel invite questions  
11 from the panel at any time. For the efficiency of  
12 these proceedings, counsel will also accept direction  
13 from the panel to move on if a point is being  
14 belaboured. We expect that each hearing day will  
15 commence with a brief overview of the outline of  
16 proceedings for the day. Party and counsel are asked  
17 to note the times allotted to their participation each  
18 day, and to adhere to the time limits set in the  
19 schedule.

20                   As a final note on scheduling, we bring  
21 the Board's attention to the fact that Intervenors  
22 have indicated that they are prepared to organize the  
23 order of their cross-examination to promote the  
24 efficiency of these proceedings. The daily outline of  
25 proceedings may therefore be amended at the Board's

1 direction to accommodate such requests from Intervenor  
2 counsel.

3                   We also want to briefly cover the  
4 exhibit list, Mr. Chair and Board members. The Board  
5 circulated a draft exhibit list last week that all  
6 parties have approved, at least to that date, and that  
7 will be used to keep a record of these proceedings.  
8 The exhibit list contains reference to the application  
9 and evidence by Manitoba Hydro, the evidence by  
10 Intervenor and independent expert consultants,  
11 Information Requests of the witnesses, the procedural  
12 order and the public notices by the Board, as well as  
13 correspondence to and from the Board.

14                   Parties seeking to file exhibits are  
15 asked to provide a PDF by email to Ms. Schubert as  
16 soon as possible, and before the exhibit is introduced  
17 preferably before the start of the hearing day.  
18 Parties are to propose exhibit numbers for their own  
19 exhibits.

20                   We understand the Board will endeavour  
21 to post the exhibits on its website, together with the  
22 transcripts on a timely basis. And as a reminder to  
23 counsel and for counsel to please remind their  
24 witnesses, the transcript is much easier to follow if  
25 the witness is giving PowerPoint presentations



1 continuously indicate which slide number of the  
2 exhibit they are referring to.

3                   Likewise, when asking questions,  
4 counsel should reference the document and page numbers  
5 for the benefit of those following via the transcript.  
6 We thank counsel representing Manitoba Hydro, the  
7 Intervenors and independent expert consultants for  
8 their cooperation and assistance in organizing the  
9 procedural matters for this hearing.

10                   We extend a special welcome to the  
11 Manitoba Hydro witnesses who are appearing for the  
12 first time, as well as Intervenor and independent  
13 expert consultant counsel and witnesses who are  
14 appearing for the first time.

15                   As with those who have appeared or  
16 testified previously before the Board, we look forward  
17 to working together to assist the Board in this  
18 General Rate Application.

19                   In conclusion, and subject to any  
20 questions the Board Chair or panel members may have of  
21 us at -- at this time, we suggest the Board call on  
22 parties for their opening remarks, beginning with  
23 counsel for Manitoba Hydro. Following Manitoba  
24 Hydro's counsel's opening comments, we suggest the  
25 Board hear opening comments by all counsel for the

1 Intervenors.

2                   After lunch, the Board can expect to  
3 hear from Manitoba Hydro's executive overview panel,  
4 followed by cross-examination of that witness panel by  
5 Board counsel. Thank you, Mr. Chair.

6                   THE CHAIRPERSON: Thank you, Ms.  
7 Steinfeld. Ms. Ramage, the floor is yours.

8

9 OPENING COMMENTS BY MANITOBA HYDRO:

10                   MS. PATTI RAMAGE: Good Morning, Mr.  
11 Chair and Madam Vice-Chair, Board member Grant, Board  
12 member McCutcheon, Board member McKay and Board member  
13 Ring. My name is Patti Ramage. And I'm here as legal  
14 counsel to Manitoba Hydro, along with Odette  
15 Fernandes, who is seated directly behind me, and  
16 together with a number of Manitoba Hydro's legal  
17 counsel, we will be representing Manitoba Hydro in  
18 this -- what has become a multi-layered process.

19                   With me here today, to my immediate  
20 right, is Mr. Kelvin Shepherd, Manitoba Hydro's  
21 president and chief executive officer. And we also  
22 have to his right Manitoba Hydro's vice-president  
23 chief finance and strategy officer Jamie McCallum. In  
24 our back row today we have Mr. Greg Barnlund, to my  
25 far right, director of rates and regulatory affairs;

1 Ms. Liz Carriere, manager of strategic and financial  
2 planning; and Ms. Shannon Gregorashuk, manager of  
3 regulatory services.

4 Manitoba Hydro is seeking from the  
5 Public Utilities Board approval of a 7.9 percent rate  
6 increase to be -- to be effective April 1st, 2018,  
7 along with final of -- approval of previous interim  
8 rate increases.

9 We acknowledge that a 7.9 percent  
10 increase is an exceptional rate increase in the  
11 province of Manitoba. It needs to be an exceptional  
12 rate increase because we are dealing with exceptional  
13 circumstances. These are challenging times at  
14 Manitoba Hydro. Rate increases are never welcomed, we  
15 know that. We are acutely aware that a 7.9 percent  
16 increase is larger than any previous increase sought  
17 from the Public Utilities Board by Manitoba Hydro. We  
18 cannot emphasize enough that we do not take this  
19 request lightly, but at the same time, we cannot avoid  
20 or defer coming to terms with the realities of  
21 Manitoba Hydro's financial situation today and its  
22 future outlook. If we do that, we are only going to  
23 make matters worse.

24 Can we change the slide? The problem  
25 is at today's interest -- at today's rates, Manitoba

1 Hydro does not have enough cash coming in each day to  
2 pay our operating costs and to pay the interest we  
3 owe, let alone manage the business risks that must  
4 reasonably be anticipated to arise.

5           At Manitoba Hydro we often talk about  
6 managing our risks; that means that we can weather a  
7 drought and like any business, particularly a highly  
8 leveraged business, that we can cope with the rise in  
9 interest rates. We need to be able to get through  
10 those type of events and still be able to pay our  
11 creditors, to pay our employees and to still renew and  
12 maintain our aging system so that we can continue to  
13 provide safe and reliable service.

14           The stark reality is that even with  
15 extended average high water conditions, Manitoba Hydro  
16 has been borrowing money just to meet current  
17 obligations, never mind the costs and the interest  
18 expense associated with our major projects. We have  
19 been extraordinarily lucky. This is the longest  
20 period of above average water conditions on record.  
21 We've had fourteen (14) consecutive good years. The  
22 previous record was five (5).

23           Interest rates have, until recently,  
24 steadily marched downwards and sit at levels not seen  
25 since the Great Depression. This will not go on

1 forever. And when it ends, absent a plan to address  
2 our financial challenges which starts with the  
3 requested 7.9 percent rate increase, we will be in  
4 trouble. We need a plan. A plan that is grounded in  
5 financial reality. Hope is not that plan. It's  
6 critically important that we, all of us, we get this  
7 right, because if we don't rate increases will be  
8 higher in the future, and will result in even greater  
9 overall increases to customers' bills. This is the  
10 reality we're facing.

11                   We don't want to be back here twelve  
12 (12) months from now saying, we need another rate  
13 increase only this time we're not asking for 7.9  
14 percent, we're asking for more. We don't want to go  
15 there. This process is the opportunity to get this  
16 right. We need to get on the right rate trajectory  
17 now.

18                   Everyone understands that in life when  
19 you borrow money you have to repay it. This applies  
20 whether you're borrowing money to buy a new home, to  
21 run a small business, or whether you're a Crown  
22 Corporation running an electric utility. Borrowing  
23 money also requires you pay interest. Take for  
24 example a credit card. If you only make the minimum  
25 payment the debt is going to be around for a very long

1 time. Each time you use that card, you accumulate  
2 more debt and even more of your income gets eaten up  
3 by interest expense. It's a vicious cycle. And if  
4 you told -- don't take steps to deal with the debt,  
5 the payments become so large that all of your income  
6 goes to service that debt, and you have to borrow on  
7 another account just to make that credit card's  
8 minimum monthly payment.

9                   To stop the cycle, you have to get the  
10 debt under control. You need to reduce your expenses.  
11 You need to increase your cash flow. You might make  
12 changes to your lifestyle, you might cut costs. You  
13 might look for ways to increase your income, and we  
14 are doing all those things at Manitoba Hydro.  
15 Manitoba Hydro's already taken steps this year to  
16 reduce its workforce by nearly 15 percent. This  
17 includes a reduction in the number of vice-presidents  
18 by 30 percent and over the next short while, the  
19 elimination of eight hundred (800) full-time  
20 positions.

21                   We would not presume to come to this  
22 Board with this rate ask without having taken these  
23 steps. Unfortunately, these and other cost control  
24 measures are not enough to provide Manitoba Hydro  
25 sufficient revenue to meet its obligations and manage

1 its risks. We're not going to be able to grow our way  
2 out of this predicament. Our domestic load forecast  
3 is down, as is our export revenue forecast. We have  
4 no choice but to look to the only other tool we have  
5 in our toolbox and that is rate increases.

6           It's fair to ask: How exactly is debt  
7 affecting Manitoba Hydro? We're going to be dealing  
8 with this in detail but I'll give you a taste. The  
9 evidence demonstrates that presently for every dollar  
10 Manitoba Hydro collects from Manitoba ratepayers \$0.40  
11 goes to service the debt. I can tell you that \$0.40  
12 is going up and it's going up soon. It does not  
13 include the interest associated with our major capital  
14 projects, that means, the interest we're paying today  
15 on Bipole III capital spending is not in the \$0.40.  
16 When Bipole III comes in around nine (9) months from  
17 now, it adds \$205 million, 205 million, to Manitoba  
18 Hydro's interest expense annually; that's a real  
19 expense, and it has to be paid with real dollars.  
20 Change the slide. Thank you.

21           By 2024 all the major projects will be  
22 complete. How do we look then? That is going to  
23 depend on the rate decision you make now. If we don't  
24 take corrective action and we continue with the old  
25 financial plan with its 3.95 percent rate trajectory,

1 by 2024 \$0.63 of every dollar collected from Manitoba  
2 ratepayers will be needed to service Manitoba Hydro's  
3 debt.

4                   However, there is an opportunity to  
5 change that by following the plan laid out in this  
6 application, that amount drops dramatically from -- to  
7 \$0.45 of every do -- excuse me, \$0.45 of every dollar.  
8 From \$0.63 to \$0.45, that's a big difference. \$0.45  
9 is still a lot, but it's a lot less than \$0.63.

10                   Manitoba Hydro's provided a trend --  
11 tremendous amount of information to substantiate the -  
12 - substantiate the need for this rate increase. You  
13 can approach your task with a view that the issue is  
14 either complex or straightforward. Complex means  
15 immersing yourself in 32,000 pages of materials that  
16 have been filed to date. Complex means trying to  
17 understand and remember every detail. I don't believe  
18 it's humanly possible. I don't believe it's  
19 necessary.

20                   The key issue is straightforward: Does  
21 Manitoba Hydro have enough revenue to operate the  
22 business, manage its risks and pay its finance  
23 expense. Absent a 7.9 percent rate increase, the  
24 answer is clearly no. You don't need to 32,000 pages  
25 to answer the key question. In my experience, the



1 hearing process typically focuses on a number of key  
2 IRs, not the voluminous record that's created by the  
3 discovery process.

4           In an effort to assist the panel, we  
5 have put together of Manitoba Hydro ten (10) IRs and  
6 these ten (10) IRs we believe in com -- combination  
7 with our rebuttal evidence will put you in good stead  
8 to understand and assess the evidence presented to you  
9 and we'll distribute these when I'm complete.

10           Manitoba Hydro respects the fact that  
11 Intervenors to this process represent individuals and  
12 groups that have mandates that are very important to  
13 their members. However, as much as we respect these  
14 groups, we must remember that they are advocating for  
15 a result that is consistent with the interests of  
16 their members. Those mandates should not be confused  
17 with that of the Public Utilities Board, to balance  
18 the interest of ratepayers with the fiscal health of  
19 the Utility.

20           In doing so, the PUB facilitates  
21 Manitoba Hydro's continued ability to deliver safe and  
22 reliable electricity to Manitobans. When listening to  
23 the opening comments this morning and the evidence  
24 throughout the hearing, I suggest you keep the  
25 following questions top of mind. First, will adopting

1 the perspective being advocated by this Intervenor  
2 serve to provide the Utility with enough cash to  
3 operate the business, manage its risks, and pay its  
4 finance expense?

5                   Now, it's wise to ask this question  
6 both if everything goes exactly to the plan that's  
7 been laid out for you, but also if some things  
8 disappoint, because it's been shown to happen. Take -  
9 - taking those kind of perspectives is how we promote  
10 rate stability and avoid rate shock.

11                   Also ask yourself: Does the evidence  
12 or issue raised by this Intervenor, materially affect  
13 the test years, the years immediately following the  
14 test years, or are you being asked to address an issue  
15 that is a decade or more into the future? Does it  
16 need to be decided today? Is it material?

17                   This rate application is for August  
18 1st, 2017 and April 1st, 2018 rates. We will be back  
19 to you and you can address some of those future issues  
20 when they impact the test years under consideration.  
21 We already have a lot on our plates. Let's not  
22 exhaust ourselves debating what the world will look  
23 like seven (7) to ten (10) years from when so much  
24 can't be known, particularly given, you know, we will  
25 be back to see you multiple times before then.

1                   Another question to keep top of mind:  
2 Who benefits from addressing the issue, as is being  
3 suggested? Does this appropriately balance the  
4 interest of ratepayers and the need for a healthy  
5 Utility?

6                   Lastly, is the information being  
7 presented on a consistent basis? A comparison is only  
8 valid if it's an apples-to-apples comparison. Are the  
9 -- the assumptions being used valid? Do they reflect  
10 ta -- today's world or a healthy unview (sic) of the  
11 past. The fact is, you can engineer any results you  
12 want if you change the assumptions.

13                   I urge you to listen very carefully to  
14 the Intervenors; that's not something you usually hear  
15 from a lawyer, usually I want you listening to me.  
16 But in this case, I want you listening to the  
17 Intervenors and carefully, because almost without  
18 exception, the result of their evidence, the result of  
19 their analysis, their proposals, the result is to  
20 shift the burden of our debt on to ratepayers in the  
21 future. That's not only unfair, it's shortsighted and  
22 it does not achieve the objectives of this Board.

23                   Today's ratepayer is not paying their  
24 full share. Shifting the burden does not achieve  
25 stability and it provides higher, not lower rates in

1 the long run. Through this GRA Manitoba Hydro has and  
2 will continue to demonstrate that a 7.9 percent rate  
3 increase fairly shares the burden between today's  
4 ratepayers and those of the future.

5           Now, at the beginning of my comments I  
6 indicated that we were very aware that this rate  
7 increase is not welcomed. On Friday I got to see the  
8 feedback the PUB has been seeing on its website. The  
9 calls to cut cost, to cut staff, to send a message, to  
10 refuse the rate increase. None of that was  
11 unexpected.

12           But what struck me was that one (1)  
13 individual, consumer number 1273, strong -- that --  
14 that individual strongly opposed the rate increase but  
15 said, and I quote,

16                   "If it does go ahead, I would  
17                   greatly appreciate it being posted  
18                   in great detail as to why this large  
19                   amount increase has taken place and  
20                   where the extra funds are going  
21                   towards."

22           It struck me, I think because of a  
23 recent experience, when I went to the last Bomber game  
24 I was late. The seniors who sit by us asked where I  
25 was and I replied work. When they asked where do you

1 work that you work so late on a Friday night, Manitoba  
2 Hydro. And they said, you're not the one raising our  
3 rates, are you? Well, no, not just me but, yes, I'm  
4 working on the rate increase.

5                   Things got cool, and it wasn't because  
6 we were sitting outside on a November evening in  
7 Winnipeg. These people clearly shared the views of  
8 the people who have posted on your website. At half  
9 time we talked. I explained the challenges in  
10 building these major projects and how they are costing  
11 more than anyone had imagined. That Manitoba Hydro  
12 was not alone. How others building similar sized  
13 projects had run into similar sized problems; that all  
14 over North America rates are going up faster than  
15 inflation as utilities deal with aging infrastructure  
16 and rising costs.

17                   I explained why a 20 year plan doesn't  
18 work. How our Manitoba load is not going to be what  
19 we thought it was just a few years ago. I explained  
20 how we can count on the export market like we used to.  
21 And I also explained the staff reductions we've  
22 undertaken. Finally, I explained the risks of not  
23 taking corrective action.

24                   And when we were done, I wouldn't say  
25 they were happy, but I would say they had a better

1 appreciation of the problem and why it needs to be  
2 addressed. And I would also say they did not want to  
3 risk higher rates later. Consumer number 1273  
4 deserves that same explanation and this process can  
5 accomplish that.

6                   And that brings to -- me to my last  
7 point, bill affordability. Manitoba Hydro is acutely  
8 aware that this rate increase will have serious  
9 impacts on its ratepayers who experience energy  
10 poverty, including many of our indigenous customers.  
11 Poverty, in particular, to this process, energy  
12 poverty is an issue that requires many parties working  
13 together to find meaningful solutions.

14                   Parties critical to this discussion are  
15 not, however, all in this room. We view the recent  
16 announcement of the province of Manitoba regarding the  
17 development of a new poverty reduction strategy, a  
18 significant and positive. If the experts who  
19 developed that poverty strategy identify a fitting  
20 role for Manitoba Hydro, I am confident the  
21 Corporation will do what it can.

22                   But the fact remains, we are not going  
23 to be -- not going to be able to meaningfully address  
24 energy poverty or poverty in general in this process.  
25 Today's reality is we have a choice. A choice between

1 rate increases now or even larger rate increases in  
2 the future. And while it seems so tempting and so  
3 easy, the worst thing we can do is ignore or defer  
4 action to address the issues facing Manitoba Hydro and  
5 its ratepayers. That is why we need to get this  
6 right.

7 Thank you for listening to me this  
8 morning. Mr. Shepherd and Mr. McCallum are, of  
9 course, here and after we hear the Intervenors'  
10 opening comments, they will make their presentation  
11 and be available for questions.

12 And we would be happy to distribute  
13 this now or at the next break, the ten (10) IRs we're  
14 suggesting the Board review.

15 THE CHAIRPERSON: Ms. Ramage, Vice-  
16 Chair Kapitany has a question of you.

17 THE VICE-CHAIRPERSON: Yeah, I have --  
18 I actually have two (2) questions for you, Ms. Ramage.  
19 The first one is: I believe you said that we're here  
20 to talk about a rate for August 1st, '17 and April  
21 1st, '18, but there's also a rate from August 1st,  
22 '16, that also needs to be finalized.

23 And so I just wanted your comment on  
24 why you hadn't mentioned that rate?

25 MS. PATTI RAMAGE: Mostly in the

1 interests of time. I was trying to encompass the --  
2 capture that rate by the previous interim rates, I --  
3 I referenced, as opposed to setting them all out,  
4 simply because, Board counsel had already run through  
5 all the detail of the rate increase, and I was  
6 focusing on what I would view as -- as the significant  
7 -- what we haven't covered in any proceeding in the  
8 past.

9 THE VICE-CHAIRPERSON: So I take it  
10 from that then that you will be addressing the  
11 finalization of that rate as well?

12 MS. PATTI RAMAGE: Yes, throughout the  
13 hearing.

14 THE VICE-CHAIRPERSON: Okay, thank  
15 you. And my second question is: You said in your  
16 statement that you were borrowing to meet current  
17 obligations. When you say that, are you speaking of a  
18 payment of debt for your capital projects, or is it  
19 something beyond that?

20 MS. PATTI RAMAGE: What I am speaking  
21 to is the fact that we are borrowing today -- that  
22 when we are borrowing, we do not have sufficient funds  
23 to pay for our current operating expenses, let alone  
24 our -- our capital projects. Our capital projects  
25 can't be recovered today under accounting rules, but



1 we don't have the sufficient funds, and I think Mr.  
2 McCallum will be able to explain that in far greater  
3 detail than I will.

4 THE VICE-CHAIRPERSON: Thank you.

5 THE CHAIRPERSON: Ms. Ramage, I think  
6 we'll have the materials distributed at the break.  
7 Just -- let's do it at the break because we're not  
8 going to look at them before.

9 Okay, we will proceed with Intervenors  
10 and we'll start -- I have them on my list with the  
11 Assembly of Manitoba Chiefs. I don't know who will be  
12 speaking on behalf of them.

13

14 OPENING COMMENTS BY ASSEMBLY OF MANITOBA CHIEFS:

15 MR. SENWUNG LUK: Good morning, Chair.  
16 This is -- my name is Senwung Luk and good morning  
17 panelists. Thank you for -- thank you for having us  
18 here today. My name is Senwung Luk and together with  
19 my cocounsel, Corey Shefman, we represent the Assembly  
20 of Manitoba Chiefs.

21 The Assembly of Manitoba Chiefs is an  
22 umbrella organization representing the interests of  
23 sixty-two (62) of sixty-three (63) of Manitoba's first  
24 Nations. And I would like to thank the Chair for his  
25 acknowledgement of our presence today on Treaty 1

1 lands, on the territories of the Anishinaabe, the  
2 Cree, the Dakota Peoples and on -- on the homeland of  
3 the Metis nation.

4 I hope that our conversation here and  
5 the deliberations of the Board will honour the spirit  
6 of Treaty 1 and all the treaties that cover the land  
7 and waters on what we now call Manitoba. And I make  
8 reference to the treaties because the issues that the  
9 AMC will bring before the Board here go back to that  
10 treaty relationship. As the great Manitoban Chief  
11 Justice of Canada Brian Dickson said in the Sparrow  
12 case,

13 "There can be no doubt that over the  
14 years the rights of the Indians were  
15 often honoured in the breach. We  
16 cannot recount with much pride the  
17 treatment accorded to native people  
18 of this country."

19 That the treaties have not been lived  
20 up to speaks for itself through the evidence that the  
21 AMC intends to bring before the Board. You will hear  
22 that poverty hits First Nations communities hard, much  
23 harder than a non-indigenous communities. You will  
24 hear, for instance, that 96 percent of First Nation  
25 reserves have median incomes that are below the

1 poverty line in Manitoba. You will hear that 76  
2 percent of children on First Nations reserves live in  
3 poverty, which is the highest rate in Canada.

4           Unfortunately, the sad litany of  
5 statistics do not end there. You will also hear  
6 evidence about the condition of the homes on -- many  
7 homes on First Nations reserves. You will hear, for  
8 instance, that 44.2 percent of First Nations people  
9 lived in housing in need of major repairs. On reserve  
10 housing has many problems with their construction,  
11 problems that most Manitobans would find difficult  
12 imagining.

13           For instance, the ground beneath the  
14 home built by the Department of Indian Affairs may  
15 never have been proper -- properly levels, leading to  
16 subsidence of the soil. This may lead for instance,  
17 in windows and doors in the home developing cracks  
18 between the window and door and the frame which, in  
19 turn, leads to heat leaking out. You will, therefore,  
20 not be surprised to learn that electrical consumption  
21 is much higher per square foot on reserve when  
22 compared to off reserve homes.

23           We recognize that many of these  
24 problems are large and systemic. The rate increase  
25 before the Board here cannot on its own -- I'm sorry,

1 the rate case before the Board here cannot on its own  
2 solve these problems.

3                   But, if the Board approves the rate  
4 case as put forward by Hydro, it can certainly make  
5 these problems worse. A rate increase to electricity,  
6 especially of the magnitude that is being proposed  
7 here, will impact the poor more than the wealthy.  
8 Because so many people who live in First Nations  
9 communities in the province are in poverty, the rate  
10 increase will hit them disproportionately hard.

11                   The Board will hear that this hardship  
12 will mean much more for people on reserve than simply  
13 having to forgo a luxury or two, for First Nations  
14 people living on reserve, this increase can mean the  
15 difference between being able to pay their Hydro bill  
16 or not. What's more is that people who live in First  
17 Nation communities also consume higher amounts of  
18 electricity because of the substandard condition of  
19 their homes. A rate increase will, therefore, have an  
20 even more substantial impact than on First Nations --  
21 on First Nations people living on reserve even greater  
22 -- even more disproportionately than for people living  
23 off reserve.

24                   Now, we do not expect to be taking  
25 positions on Manitoba Hydro's revenue requirement. We

1 have no desire to duplicate the work that our fellow  
2 intervenors are ably doing. However, after deciding  
3 on Manitoba Hydro's revenue requirement, the Board  
4 will be called upon to decide how that revenue  
5 requirement will be visited upon ratepayers. The  
6 Assembly of Manitoba Chiefs intends on calling on  
7 evidence showing the disproportionate impacts of these  
8 rate increases on poor people, and on First Nations  
9 communities specifically.

10                   We'll be calling evidence from Mr. Phil  
11 Raphais, our expert witness, that will consist of  
12 practical, pragmatic approaches that the Board can  
13 adopt to alleviate the impact of these -- of these  
14 rate increases through rate relief of various kinds.  
15 We'll call evidence showing that it's technically  
16 feasible to implement a reduced rate targeted at First  
17 Nations people living on Reserve.

18                   We will submit that such a targeted  
19 form of rate relief is appropriate given the tas --  
20 given that the task of bringing on Reserve housing up  
21 to standards that other Canadians would expect is an  
22 unfinished project. And since we're not there yet,  
23 since that is still a work in progress, it's important  
24 to cushion on Reserve ratepayers from the impacts of  
25 those rate increases.

1 I'll close here by alluding again to  
2 the treaty relationship between Manitoba and First --  
3 and the First Nations in this province. Every day,  
4 with every decision that a Canadian institution makes,  
5 there is an opportunity to make that treaty  
6 relationship better and stronger. As the Truth and  
7 Reconciliation Commission has pointed out, the journey  
8 of reconciliation between indigenous people and other  
9 Canadians is a job for every Canadian and for every  
10 Canadian institution, each in their own situation.

11 The Assembly of Manitoba Chiefs will  
12 structure our intervention to contribute practical  
13 ideas for how the decision on the rate case, this rate  
14 case before the Board here, can be an opportunity to  
15 move further along on that journey of reconciliation.  
16 Thank you.

17 THE CHAIRPERSON: Thank you, sir.

18 The next Intervenor is the Business  
19 Council of Manitoba and Mr. Williams. I -- I just  
20 point out for everyone in the room, we have two (2)  
21 counsel named Williams in the hearing, Kevin Williams  
22 and Byron Williams. And since Dr. Williams is a  
23 doctor, we'll distinguish between them that way. So,  
24 Mr. Williams...?

25 MR. KEVIN WILLIAMS: Thank you.

1 THE CHAIRPERSON: Please start.

2

3 OPENING COMMENTS BY BUSINESS COUNCIL OF MANITOBA:

4 MR. KEVIN WILLIAMS: Good morning,  
5 Board Chair Gabor, Vice Chair Kapitany, and Board  
6 members Grant, McCutcheon, McKay, and Ring. I'm Kevin  
7 Williams, not the doctor, and I'm here on behalf of  
8 the Business Council of Manitoba. To my immediate  
9 right I have Doug Finkbeiner, also of our firm.

10 The Business Council of Manitoba is a  
11 not-for-profit organization comprised of eighty-four  
12 (84) CEOs from a cross-section of businesses located  
13 in ber -- both urban and rural Manitoba. Almost all  
14 of the corporation's are headquartered in Manitoba.  
15 The Business Council's primary purpose is to research  
16 and advocate positions on selected issues that have --  
17 that bear directly on the future health of Manitoba  
18 and Manitoba society.

19 The CEOs of the organization are  
20 committed to Manitoba, Manitoba's economic growth, and  
21 community involvement. The Business Council of  
22 Manitoba sees this general light -- rate application  
23 as just such an issue, because from the Business  
24 Council of Manitoba's perspective the financial  
25 stability of the province generally, and Manitoba

1 Hydro in particular in the midterm and long-term, is  
2 key.

3                   The Business Council of Manitoba's  
4 position in respect of this General Rate Application  
5 is it is the -- is -- is that it is the Public  
6 Utilities Board that is vested with the -- the  
7 authority to determine the appropriate rate increase  
8 in respect of this application. The Business Council  
9 of Manitoba's position is that to the extent that rate  
10 increases will assist in placing Manitoba Hydro on a  
11 solid independent financial footing, the Business  
12 Council of Manitoba is supportive of such an increase.

13                   To the extent that Manitoba Hydro can  
14 be perceived by others, and in particular the -- the  
15 credit rating agencies as being self-supporting, we  
16 all as Manitobans are better off. Accordingly, to the  
17 extent that the rate increase can assist Manitoba  
18 Hydro as being viewed as self-supporting by the credit  
19 rating agencies, the Business Council of Manitoba  
20 would support such a rate increase.

21                   We are not here to advocate that the  
22 increase being requested by Manitoba Hydro is the  
23 appropriate rate increase. That is for you to decide.  
24 Our intention in respect of the proceeding is to -- is  
25 to provide our position by way of a presenter panel



1 consisting of Business Council of Manitoba members.  
2 Our goal in this process is to simply advocate the  
3 ramifications to all Manitobas -- all Manitobans of  
4 the potential impact of a downgrade of the credit  
5 rating -- rating of the province and Manitoba Hydro in  
6 particular; or the effect of a general rate increase -  
7 - interest rate increase in the capital markets, and  
8 the effect those events would have on the financial  
9 stability of Manitoba Hydro and how Manitoba Hydro's  
10 financial stability could impact on all Manitobans  
11 generally.

12                   So subject to any questions, those are  
13 my comments.

14                   THE CHAIRPERSON:    Thank you, Mr.  
15 Williams.   Dr. Williams.

16

17 OPENING COMMENTS BY CONSUMERS COALITION:

18                   DR. BYRON WILLIAMS:    Thank you.  We're  
19 just waiting for our PowerPoint to come up.  I'll  
20 indicate that it's with great pleasure that I appear  
21 on behalf of our clients, Winnipeg Harvest and CAC  
22 (Manitoba).  And just by way of background, Winnipeg  
23 Harvest, as this Board will be well aware, serves over  
24 sixty thousand (60,000) Manitobans a month who require  
25 food bank assistance, linked to fifty (50) communities

1 throughout Manitoba, and partnering with four hundred  
2 (400) agencies.

3 CAC (Manitoba) has been before this  
4 Board, like our friends from MIPUG, right from the  
5 start when it comes to Manitoba Hydro. And some  
6 members of this Board will recall that at the NFAT  
7 hearing, our clients were not supportive of Manitoba  
8 Hydro's decision to go ahead with Keeyask.

9 But this hearing isn't about revisiting  
10 past decisions. It's not about decisions -- making  
11 decisions based on ideology. It is about taking a  
12 hard low -- hard-nosed look at the evidence today and  
13 how it reflects a non-share corporation, like Manitoba  
14 Hydro, which is capital-intensive and which is in a  
15 period of extensive and intensive capital investment.

16 And it's curious and interesting that -  
17 - that neither Manitoba Hydro or the Business Council  
18 of Manitoba in their discussion of adverse scenarios  
19 ever mentioned the bond markets, and the reaction of  
20 the bond markets, for example, to the Board's interim  
21 decision in August, which maintained and even reduced  
22 the spread between long Canada bonds and -- and  
23 Manitoba bonds. So as we go forward we will hear many  
24 doomsday scenarios for Manitoba Hydro. Our client  
25 urge this Board, as we know it will, to keep its eyes

1 on the empirical evidence of how the markets are  
2 actually reacting.

3           The statutory context we will cover in  
4 the next three (3) or four (4) slides, but it is the  
5 word "necessity" and "necessary" that I wish to  
6 underscore, whether that is found in section 39(1)(a)  
7 of the Manitoba Hydro Act speaking to necessary  
8 operating expenses; whether that is found in section  
9 25(4)(5) of the Crown Corporations Act speaking to any  
10 other reserves that are necessary; whether it is in  
11 the test for just and reasonable rates expressed at a  
12 high level in section 77 of the PUB Act, but more int  
13 -- more intimately in -- in terms of this Board's own  
14 decision Board Order 5/12.

15           We're again on the second bullet. We  
16 see those words "necessity," "necessary," ensuring  
17 that actual and projected costs are necessary and  
18 prudent. And if the Board takes the time, for  
19 example, to look at the \$4.5 million series of  
20 PowerPoint slides prepared by Boston Consulting Group  
21 they'll see a lot of discussion of feasible.  
22 Feasible. Major rate increases are feasible.

23           You will not see that word "necessary."  
24 And that word "necessary" matters. The onus in this  
25 hearing is on Manitoba Hydro to justify this radical

1 departure from past practice to justify this radical  
2 violation of the principles of intergenerational  
3 equity. That's their obligation. It has that onus.

4                   We were certainly pleased to hear  
5 Manitoba Hydro refer to the over two thousand three  
6 hundred (2,300) Manitobans who've already written into  
7 the Public Utilities Board, and our clients wish to  
8 thank those consumers for sharing their voices. And  
9 on the next couple of slides, you'll see some of those  
10 stories. Senior citizens in rural Manitoba making  
11 hard choices and quite concerned about the increase of  
12 7.9 percent times two (2) being sought by Manitoba  
13 Hydro.

14                   New homeowners who invested in this  
15 province in their homes with an expectation of  
16 reasonable stable rate increases, not rate shock level  
17 increases. Again, seniors in rural Manitoba concerned  
18 as well as in bullet -- the second bullet on slide 12.  
19 You'll see, as well, a concern by those who are  
20 worried about the impacts of rate shock level  
21 increases, not just for one (1) year or two (2) years,  
22 but projected out six (6) years by Manitoba Hydro.  
23 What impact will that have on the Manitoba economy?  
24 Again, our clients thank these consumers for sharing  
25 their voices.

1                   Ultimately, and we've heard that word a  
2 couple times today. We've heard the word "balance."  
3 The balance between ratepayers and between the health  
4 of the industry -- of -- of the Crown monopoly, and  
5 our clients acknowledge that that is the challenge for  
6 this Board. Their submission will be that if you look  
7 carefully at the Manitoba Hydro application, it is  
8 profoundly unbalanced and biased against today's  
9 ratepayers.

10                   You won't find in the application a  
11 reference to consumers' cost of capital, that giant  
12 sucking sound of 7.9 percent rate increases upon 7.9  
13 percent rate increases, and what that does to Manitoba  
14 consumers. You will not find that in Manitoba Hydro's  
15 rate application.

16                   In terms of the five (5) elements of  
17 the statutory -- or of the Board's outline of tests in  
18 terms of just and reasonable rates, I want to start  
19 with forecasting on behalf of our clients. On slide  
20 15 we've set out the key forecasting issues for  
21 clients, and we note the reality that Manitoba Hydro  
22 has not a very strong reputation when it comes to  
23 forecasting, certainly in terms of the export markets,  
24 and certainly in terms of capital projects. It's a  
25 Corporation that has a history of being so wrong for

1 so long.

2                   And our clients were concerned because  
3 our clients were certainly hoping for a fresh start  
4 with the new Manitoba Hydro board, with the new  
5 Manitoba Hydro lit -- literature, but the evidence of  
6 this hearing will show a finding by the independent  
7 expert Daymark of a current bias with regard to  
8 Manitoba Hydro's assessment of the export revenue  
9 forecast.

10                   A corporation which has the onus of  
11 proving its case, a corporation which already has a  
12 tainted history of credibility when it comes to  
13 forecasting, and a damning finding by Daymark of a  
14 current bias as well. One (1), which by the way, bias  
15 -- biases the revenue forecasts down.

16                   An unanswered question in this  
17 proceeding, but important evidence raised by Dr.  
18 Yatchew, another independent expert, is did -- did had  
19 Hydro get it right? Are rate shock level increases  
20 after rate shock level increases, are they going to do  
21 more to demand -- to reduce demand in the Manitoba  
22 economy than Hydro projects? If so, thereby  
23 undermining another aspect of its rate application.

24                   Evidence that has yet to be filed  
25 relates to capital costs, and we'll certainly simply

1 note the fact that it is an open question of whether  
2 Hydro's current estimates of capital costs are  
3 reasonable, or whether they're biased. And we have no  
4 indication yet whether they're biased upwards or  
5 downwards.

6                   For the first time in the many years  
7 that I've been appearing before this Board, our client  
8 -- clients raise the question: Is the twenty (20) year  
9 in -- in -- IFF, integrated financial forecast,  
10 analytically coherent? Historically, our clients have  
11 taken serious issue with the inputs into Manitoba  
12 Hydro's twenty (20) year IFF, but never have they  
13 questioned the analytical coherence of it.

14                   This is an application driven by a  
15 desire to impose rate shock. Six (6) years they're  
16 forecasting for the avowed purpose of avoiding rate  
17 shock, a tautology if my client has ever seen one (1).  
18 And in the middle figure on slide 19, you will see  
19 some certain Information Request responses of Manitoba  
20 Hydro. And a critical question is: What happens after  
21 the new Jerusalem is reached? After successive years  
22 of 7.9 rate increases?

23                   There's a shocking about-face in the  
24 Manitoba Hydro integrated financial forecasts started  
25 about 2526. And if you work through those Information

1 Requests, you'll see around 2030 some very weird  
2 behaviour in that integrated financial forecast. So  
3 our clients asked the question, recognizing that this  
4 is a corporation with long-lived capital assets. What  
5 are the implications of an analytically incoherent  
6 twenty (20) year integrated financial forecast?

7                   In terms of the prudent and necessary  
8 expenditures, right off the bat our client asked the  
9 question about day-to-day capital, sustaining capital.  
10 There has been damning findings in this evidence by  
11 the witnesses retained by the coalition METSCO, by  
12 Manitoba Hydro's own expert UMS, and even from the  
13 observations of Boston Consulting Group that Manitoba  
14 Hydro's expenditures on sustaining capital are not  
15 sufficiently optimized.

16                   So there are important questions going  
17 forward in terms of what -- what are the implications  
18 for the rate application. And our client has seen no  
19 substantive effort by Manitoba Hydro to rebut the  
20 findings of UMS in that regard. Ultimately our  
21 clients ask: Are we getting the cost estimates, the  
22 prudence management of its portfolio of day-to-day  
23 capital that we would expect from a mature utility  
24 like Manitoba Hydro?

25                   And at the bottom of slide 22, we note



1 the lengthy delay. Our client and this Board have  
2 been asking Manitoba Hydro to get its sustaining  
3 capital expenditures in order since about 2008. Given  
4 that lengthy delay in bringing prudence and  
5 reasonableness and efficiency to the optimization  
6 process, what tools does this Regulator need to do to  
7 incent Manitoba Hydro to move more quickly and more  
8 effectively on that path? A question begged by the  
9 very case theory of Manitoba Hydro's is can -- can  
10 Manitoba Hydro demonstrate that its management of  
11 large capital projects in terms of cost and risk has  
12 been prudent and reasonable. And certainly we await  
13 with interest the evidence of MGF in this regard.

14 Another issue unanswered in the opening  
15 statement of Manitoba Hydro, and in our view in its  
16 rebuttal evidence is what it's -- the Boston  
17 Consulting Group identified as poor performance  
18 against benchmarks. Does Manitoba Hydro take issue  
19 with Boston Consulting Group's finding of poor  
20 performance against benchmarks as alleged by BCG in  
21 2016? What opportunities do they present for better  
22 value through better management going forward?

23 In terms of the nine hundred (900)  
24 equivalent full-time position layoffs, our clients  
25 will be exploring the implications, if any, of that on

1 needed steps such as the development of competent  
2 sustainable capital processes.

3 I've already spoken of the delayed  
4 response to saving opportunities with regard to  
5 sustainable capital expenditures. I'll note as well  
6 our clients will be pursuing the delay in rural office  
7 consolidation, which dates back to 2006. We'll leave  
8 the issue of reliance on interim rates for -- for  
9 today, but that's something that our client will be  
10 pursuing in terms of proactive positive steps going  
11 forward to wean this Corporation off of its reliance  
12 on -- on interim rates.

13 Before we turn to the overall health of  
14 the Corporation, our client does want to go back to  
15 the external con -- consultants retained by Manitoba  
16 Hydro. As -- as identified by the independent expert  
17 Daymark, there certainly was a failure by Manitoba  
18 Hydro to seek input assumptions, and that -- that it -  
19 - it purchase -- of the export market forecast that it  
20 purchases, and that's concerning to our client.

21 And our client is also looking for what  
22 exactly -- what value did this Corporation get from  
23 its \$4.5 million expenditure on Boston Consulting  
24 Group. Was there something more than PowerPoint  
25 slides? And has Manitoba Hydro prepared a critical

1 analysis of that report?

2                   In terms of the overall health of the  
3 Corporation, our client will ask: Did Manitoba Hydro's  
4 analysis in support of 75/25 in '27, that is what  
5 drives this application, did it effectively ignore the  
6 opportunity cost for Manitoba consumers, including  
7 residential customers, governments, business and  
8 industry? Is it, as we suggest, a violation of the  
9 principles of intergenerational equity?

10                   Equally important, we -- our clients  
11 ask whether Hydro in its single minded pursuit of  
12 75/25 in '27 has neglected to consider other tools  
13 that might give confidence to the financial markets  
14 while better balancing the interest of ratepayers and  
15 the Crown monopoly. And the Board will be aware that  
16 the Coalition's independent expert, retained with  
17 MIPUG, of Morrison Park Associates has explored how  
18 other relatively analogous non-share corporations such  
19 as the Tennessee Valley Authority and Bonneville Power  
20 give confidence to the financial markets in manners  
21 different from what is pursued single-mindedly by  
22 Manitoba Hydro.

23                   In terms of targets we'll only direct  
24 you to the last paragraph on this page. You'll hear a  
25 lot of talk about debt equity in this hearing. One

1 (1) question that we all must ask yourself is: Does  
2 the term "equity" as it is employed in the private  
3 market differ from how it's used in the context of  
4 Manitoba Hydro? In our client's submission it does,  
5 and that is a very real and important difference.

6           Our clients will ask, again driven by  
7 market realities: What are the bond markets saying?  
8 Given the realities of financial markets, and  
9 recognizing the practice of more analogous non-share  
10 capital corporations, did Hydro err in making the debt  
11 equity target the primary financial target to be taken  
12 into account when setting rates for the future? And  
13 certainly they will be exploring targets that better  
14 balance the interests of ratepayers and Hydro, provide  
15 greater clarity to ratepayers, Regulators, and the  
16 financial markets and that are more consistent with  
17 the realities of a capital-intensive utility  
18 benefiting from both a monopoly and government debt  
19 guarantee.

20           Our clients will pose a simple question  
21 on the left-hand side of slide 34. If the capital  
22 markets are focussed on other financial metrics with -  
23 - then why not make those metrics central to rates?  
24 Other questions on this slide I'll -- I'll debate at a  
25 -- a later time. And we'll slip over the slide

1 relating to reserves, except for to note that our  
2 clients certainly will be exploring when it is  
3 appropriate to employ them, i.e., when we're dealing  
4 with issues relating to water flow and for what risk  
5 would it be unreasonable.

6                   Ultimately, our clients will ask the  
7 question of whether Hydro has demonstrated that its  
8 forecasted results over the short, medium and long-  
9 term are outside the range of what we anticipate in  
10 the NFAT. Is there an evidentiary basis for a marked  
11 departure from modern past practice, and from the  
12 promises made by the utility in the -- in the NFAT  
13 process? What happens if Hydro's change in attitude  
14 by its board is not supported by the evidence and long  
15 -- long-established derogatory principles? What then?  
16 And our client will be presenting options to this  
17 Board in terms of -- of those issues.

18                   I'm going to turn to slide 39, key  
19 public interest considerations. Others in this  
20 hearing will be asking this as well, but what are the  
21 implications of successive rate shock level increases  
22 on captive residential customers? How many additional  
23 Manitoba families run the risk of falling into energy  
24 poverty? Does the single-minded objective of 75/25 in  
25 '27 risk materially damaging economic growth and job

1 prospects?

2                   Recognizing the time, Mr. Chair and  
3 members of the panel, I'll try and move fairly quickly  
4 through rate design and cost of service and energy  
5 poverty. Focussing on the middle figure on slide 41,  
6 our clients will ask. recognizing the vulnerability of  
7 particular residential populations, how, if at all,  
8 should tools such as low income energy efficiency,  
9 bill assistance. and rate design be employed. And  
10 they will ask whether those -- those supports, if any,  
11 should be provided by all ratepayers, or a particular  
12 class.

13                   Moving to slide 43, and Focussing on  
14 the second bullet, in the event that bill assistance  
15 programs are pursued, how can long-standing challenges  
16 with program participation and renewal, which can lead  
17 to a majority of low income persons actually paying  
18 more be addressed? And how can participation in all  
19 aspects of affordable energy programming be increased?

20                   The overarching question our clients  
21 will ask is whether Hydro's application has been  
22 wrecked on the shoals of modern rate making  
23 principles, and whether there are opportunities to  
24 make the ratesetting process effective and  
25 transparent, more effective, more transparent for

1 consumers.

2                   Moving to slide 48, and recognizing the  
3 time, Mr. Chairman, Manitoba Hydro did ask for an  
4 outline of some of the positions of our clients. And  
5 I hasten to -- to note that our clients rely heavily  
6 on the oral hearing process to develop their  
7 positions. They rely heavily on focus groups and --  
8 and consumer input, which is not yet completed. But  
9 what we are prepared to share with the Board now are  
10 some of our clients' preliminary positions as per the  
11 request of Manitoba Hydro.

12                   Manitoba Hydro will try and focus this  
13 Board only on a year, or -- or out to ten (10) years.  
14 Our clients, recognizing the long-term capital-  
15 intensive nature of this Board -- of this utility,  
16 will focus on the short-term, the medium-term, and  
17 also as far out as twenty (20) years. They will take  
18 the position that Manitoba Hydro's application is  
19 unreasonable and that it would unreasonably impose  
20 rate shock on Manitoba consumers.

21                   Directing your attention to the third  
22 bullet on slide 49, they will argue that the shape of  
23 proposed rate increases does not represent a fair  
24 distribution of burden for ratepayers over time, and  
25 that it imposes particular challenges on low income

1 people, as well as Manitoba business.

2                   Our clients will argue that Manitoba  
3 Hydro's single-minded focus on high risk capital-  
4 intensive megaprojects has distracted this Corporation  
5 from much of its necessary day-to-day activities,  
6 including optimizing the pacing and prioritization of  
7 its sustainable capital portfolio, developing an  
8 evidence-based consideration of appropriate financial  
9 targets for modern markets. And that -- as well as  
10 the range of tools by which a modern Regulator can  
11 signal to the capital markets its commis -- commitment  
12 to corporate health.

13                   Our clients will certainly argue that  
14 Hydro's forecasts are unreliable, taking into account,  
15 certainly, the demonstrated bias in terms of the  
16 export market. And that, given the challenges the  
17 Corporation has in terms of forecasting there is a  
18 need for further examination of mechanisms to develop  
19 unbiased forecasts that this Board can rely upon. Our  
20 clients will argue that Manitoba Hydro has not  
21 demonstrated that its target of 75/25 in '27 is  
22 necessary, and that it certainly has not demonstrated  
23 that they are good or balanced towards ratepayers.

24                   In terms of cost of service we'll --  
25 we'll move over that slide as well is orderly --



1 orderly ratesetting process. Ultimately, our client  
2 will not be accepting Manitoba's -- not recommending  
3 Manitoba's recommendation of a 7.9 percent rate  
4 application for '17 and '18, and it will present  
5 alternatives in the course of this hearing.

6           Ultimately, Mr. Chair and members of  
7 the panel, our client feels strongly that the promises  
8 that were made during the NFAT process have been  
9 broken by Manitoba Hydro; that the theory of imposing  
10 rate shock to avoid rate shock is a fundamental change  
11 of perspective at Manitoba Hydro that has not been  
12 justified as necessary, and definitely that Manitoba  
13 Hydro has not met its onus of demonstrating that the  
14 proposed rate increases balance the interests of  
15 ratepayers and the financial health of the utility.

16           Thank you for this opportunity on  
17 behalf of our clients.

18           THE CHAIRPERSON: Thank you. Mr.  
19 Gange, would you rather proceed now or after the  
20 break?

21           MR. WILLIAM GANGE: Mr. Chair, thank  
22 you. I'm -- I'm ready to proceed right now, if -- if  
23 you're -- and -- and I suspect we were -- we were  
24 planning on breaking it at 10:25. I'm going to go  
25 past that. But I don't think that my presentation is

1 more than ten (10) minutes.

2 THE CHAIRPERSON: Okay. Well, we'll  
3 proceed with your presentation now.

4 MR. WILLIAM GANGE: Thank you.

5 THE CHAIRPERSON: Thank you.

6

7 OPENING COMMENTS BY GAC:

8 MR. WILLIAM GANGE: Thank you, Mr.  
9 Chair. I -- and -- and thank you, Ms. Villegas, that  
10 we've got our opening statement, which I'll have  
11 entered into the -- to the record as GAC-14, Mr.  
12 Chair, at page 2 of the of the opening statement.

13

14 --- EXHIBIT NO. GAC-14: Opening statement of GAC

15

16 MR. WILLIAM GANGE: Just for your  
17 background, Mr. Chair, my name is Bill Gange. I will  
18 be representing Green Action Centre throughout this  
19 hearing. With me from time to time will be David  
20 Cordingley, who will be taking the mic from time to  
21 time. Most of the members of the the panel have met  
22 Professor Miller, with me to my right, who is -- is  
23 the coordinating member with the Green Action Centre.

24 The -- for background, Green Action  
25 Centre has taken part in hearings before this Board

1 for a substantial period of time, and we've appeared  
2 not only before hearings with the Public Utilities  
3 Board regarding Manitoba Hydro, but from time to time  
4 with respect to Centra Gas.

5           We have represented the conservation  
6 aspects of the province. The Green Action Centre  
7 promotes greener living through environmental  
8 education, and encourages practical green solutions  
9 like composting and active transportation for  
10 homeowners, workplaces, schools, and communities. One  
11 (1) of the focuses of the Green Action Centre  
12 throughout its applications before this Board has been  
13 the question of sustainability, with emphasis on  
14 social justice meeting human needs now and in the  
15 future and the efficient use of our resources.

16           The -- the perspective from the Green  
17 Action Centre is that Manitoba Hydro is a -- an  
18 exceptionally valuable resource within our province.  
19 We understand that these are difficult times, partly  
20 arising out of decisions that were made arising out of  
21 the NFAT process. We recognize that Hy -- that the  
22 Hydro system provides a hugely valuable resource of  
23 relatively inexpensive, reliable, and renewable power,  
24 and that -- that the -- the anticipated load growth  
25 will increase Manitoba Hydro's costs.

1                   But even with increases, those costs  
2 remain attractive compared to most utilities. We  
3 especially take note of the fact that Manitoba Hydro  
4 has enabled to Manitobans to lower their climate  
5 impacts and -- and although we do believe that there  
6 is much more to be done, and as an example of that is  
7 electrification of transportation.

8                   The rising cost of power, the reality  
9 is that Manitoba's power is not affordable to all. We  
10 have in the past placed special emphasis on making  
11 certain that the most vulnerable of our population are  
12 protected as best we can from the effects of rising  
13 rates. A steep run of rate increases will reduce  
14 affordability, which is a recognized -- it's -- it's  
15 an inevitable part of this process. And, Diana, if  
16 you could put on the slide from the Assembly of  
17 Manitoba Chiefs this -- thank you very much, Diana.  
18 This chart, which comes from the Assembly of Manitoba  
19 Chiefs Second Round Interrogatories 23(a)(c), page 2  
20 of 16.

21                   And -- and, Mr. Simonsen, should I have  
22 that marked as -- it -- it already is a -- a part of  
23 the -- of the hearing record. But it shows  
24 dramatically the effect of the number of people that  
25 will be affected negatively by the various proposed or

1 potential rates of -- of the increase from Hydro  
2 rates. Thank you, Diana.

3                   As a result of that we -- the Green  
4 Action Centre has been promoting policies and  
5 practices that ensure power is more sustainably  
6 produced and used and able to meet the needs of all  
7 Manitobans. We are attempting through the evidence of  
8 Mr. Chernick to provide to the Board alternative rate  
9 structures that support both conservation and  
10 affordability.

11                   And Mr. Chernick's evidence, when he  
12 appears which we expect to be in early January, will  
13 be dealing with rate design in an attempt to deal with  
14 a number of issues, both the -- the reality of the  
15 fact that many of our -- of our most vulnerable  
16 members of the population are captive to the electric  
17 space heating. So doctor -- or Mr. Chernick's rate  
18 design deals with both energy affordability and with  
19 the reality of all electric heating in this province.

20                   At the interim rate hearing, we advised  
21 the Board that rate increases must be accompanied by  
22 an adequate strategy for addressing unaffordable  
23 energy burdens created or aggravated by the increase.  
24 And, in our view, just and reasonable rates must meet  
25 the utility's revenue requirement, but at the same

1 time, must promote affordable bills for the most  
2 vulnerable lower income customers in order to provide  
3 equitable access to energy for basic needs.

4           We will be providing evidence with  
5 respect to equity, that -- that recovering costs, in  
6 our view and in the argument that we'll be making,  
7 must be proportional to usage. Equity involves  
8 charging rates that reflect marginal costs and lost  
9 opportunities. We understand that equity must protect  
10 the small customers from the costs of growth and must  
11 promote affordable bills. We urge the Public  
12 Utilities Board and the parties to focus attention on  
13 the multiple nuances of equity in determining what  
14 are, in fact, just and reasonable rates.

15           So, Mr. Chair, Green Action Centre  
16 comes -- one (1) of Dr. Williams's favourite phrases  
17 is that he comes often as an agnostic to these  
18 hearings. Green Action Centre, in this hearing, comes  
19 wanting to hear the evidence and to analyze it. We  
20 say that the -- the -- that we will be listening to  
21 Manitoba Hydro to demonstrate its argument that a  
22 shorter run of steeper rate hikes is better for  
23 customers than the longer run of less steep rate  
24 hikes. In other words, is greater short-term pain  
25 offset by long-term gain? And we pose the question:

1 Would rates stabilizing the lower level with the  
2 steeper increases than otherwise?

3                   We also intend to bring evidence and to  
4 -- and to test evidence as to what measures are  
5 available to mitigate the impacts of rising rates on  
6 vulnerable customers. How effective are these  
7 measures, and how widely can they be deployed? We  
8 have in the past attempted to bring to the Board and  
9 to this whole process attempts to lower bills for  
10 income qualified or energy burdened customers.

11                   I think it's fair to say, from the  
12 perspective of the Green Action Centre that our  
13 attempts to bring that -- those -- those issues to the  
14 attention of the Board and to be put into  
15 implementation have never been embraced wholeheartedly  
16 by Manitoba Hydro. And there have been various  
17 explanations as to why that has been. Some of them  
18 are legal concerns. Some of them are statutory  
19 concerns. Some of them are -- are issues of the  
20 difficulty of doing so.

21                   And so the question that -- that  
22 rattles around inside our presentation is: Are  
23 Manitoba Hydro's concerns practical, political, or  
24 ideological, or simply the result of institutional  
25 inertia? And once again we will be bringing those

1 processes to the Board through Mr. Chernick's evidence  
2 and -- and we hope that -- that those issues will be -  
3 - will be received and -- and considered by this  
4 Board.

5                   We understand the -- the issues of  
6 climate change and we ask the question: How does  
7 Manitoba Hydro currently see its role in addressing  
8 climate change? What specific policies and activities  
9 support that role and should the promotion of  
10 electrified transportation be part of Manitoba Hydro's  
11 strategic planning for both climate and business  
12 reasons? And -- and finally, on most of the matters  
13 that are before you, our final positions will depend  
14 on our examination of the evidence.

15                   That is the opening statement of Green  
16 Action Centre, Mr. Chair. Thank you.

17                   THE CHAIRPERSON: Thank you, Mr.  
18 Gange. Dr. Williams...?

19                   DR. BYRON WILLIAMS: I neglected, Mr.  
20 Chair, members of the panel, to intro -- to ask that  
21 our PowerPoint be exhib -- entered as CA -- Consumer  
22 Coalition Exhibit 31. And, more importantly, I  
23 neglected to note that our client Ms. DeSorcy is in  
24 the back row. She might want to wave or stand up, so  
25 I apologize to our client for that.



1 --- EXHIBIT NO. CC-31: Opening Statement of  
2 Consumers Coalition

3

4 THE CHAIRPERSON: Thank you. In -- in  
5 relation to your comment, I was going to comment on  
6 the issue of exhibits. When we come back, Ms. Ramage,  
7 I -- I guess we should get your presentation, plus the  
8 materials in as exhibits as well prior to starting  
9 your case.

10 MS. PATTI RAMAGE: Yeah, certainly. I  
11 believe Mr. Simonsen has already assigned some  
12 numbers, I think, and because he was ready for Mr.  
13 Shepherd and Mr. McCallum's. My presentation was --  
14 would be Manitoba Hydro Exhibit 63. Mr. Shepherd and  
15 McCallum's presentation is to come, is 64. And then  
16 the IRs, in a nutshell, is 65.

17 THE CHAIRPERSON: Thank you, Ms.  
18 Ramage. Thank you. We'll break for fifteen (15)  
19 minutes. Thank you

20

21 --- Upon recessing at 10:31 a.m.

22 --- Upon resuming at 10:48 a.m.

23

24 THE CHAIRPERSON: Okay, if we could  
25 resume, M. Monnin.

1 OPENING COMMENTS BY GSS/GSM:

2 MR. CHRISTIAN MONNIN: Merci, thank  
3 you, Mr. Chair, panel members Grant, Kapitany,  
4 McCutcheon, McKay and Ring. Thank you very much for  
5 the opportunity to be here this morning.

6 My name is Christian Monnin -- Chris  
7 Monnin and I'm counsel for General Service Small,  
8 General Service Medium customer classes and also  
9 Keystone Agricultural Producers.

10 I intend to give you just a bit of a  
11 background of who comprises these Intervenors and an -  
12 - an overview of the issues of concern which they will  
13 bring forward throughout the hearing. The General  
14 Service Small customer class is comprised of  
15 nonresidential, predominantly small commercial  
16 customers using Utility owned transformation with  
17 demand not exceeding 200 kilowatts. The General  
18 Service Small customer class is divided into demand,  
19 and non-demand subclasses. In that regard, customers  
20 in the demand subclasses pay demand rate based on the  
21 peak demand each month, in addition to basic monthly  
22 charge and energy charge.

23 It's important to underscore that the  
24 demand and non-demand subclasses together account for  
25 9.5 percent of Manitoba Hydro's customers and

1 contribute 17.6 percent of Utility's total costs.

2                   Regarding the General Service Medium  
3 class, this includes nonresidential, predominantly  
4 large commercial customers using Utility owned  
5 transformation with the billing demand exi --  
6 exceeding 200 kilowatts. This customer class accounts  
7 for .3 percent of Hydro's customers and contributes  
8 13.2 percent to Utility's total cost.

9                   On the whole, the General Service Small  
10 and General Service Medium customer account --  
11 accounts for over 30 percent of Hydro's annual revenue  
12 requirement. It's also respectfully submitted these  
13 customer classes account for a significant portion of  
14 the Manitoba's economic activity and employment.

15                   Now, in PUB Order Number 70/17, General  
16 Service Small and General Service Medium were granted  
17 Intervenor status. In addition, Keystone Agriculture  
18 Producers were granted Intervenor status independently  
19 pursuant to Order 70/17. On September 7 -- 15th,  
20 2017, the PUB granted the blending of the app -- of  
21 the intervention of Keystone Agricultural Producers  
22 and General Service Small and General Service Medium.

23                   Keystone Agriculture Producers is  
24 Manitoba generals farm policy organization  
25 representing the interests of over 7,000 farm families

1 and 23 commodity associations. Its mandate is to  
2 ensure a primary production of -- and Manitoba remains  
3 profitable, sustainable and globally competitive.

4           Keystone Agriculture Producers sought  
5 leave to intervene in order to assist the Board by  
6 providing with the perspective of the agriculture  
7 community and the impacts of Manitoba Hydro's proposed  
8 -- proposed rate increases will have.

9           In fear of being redundant, but for the  
10 benefit of the record, the makeup of the General  
11 Service Small and General Service Medium customer  
12 classes have represented stakeholders, namely, the  
13 Building Owners and Managers Association of Manitoba.  
14 The Members of this entity own, develop and manage the  
15 bulk of the commercial, institutional real estate in  
16 Manitoba.

17           The Canadian Manufacturers and  
18 Exporters Association of Manitoba division, the  
19 members of this entity represent businesses in the  
20 manufacture and exporting sectors. These sectors  
21 directly employ approximate 64,000 Manitobans. And  
22 rounding it out, we have the Manitoba Hotel  
23 Association which is a nonprofit organization  
24 comprised of the majority of hotels located throughout  
25 Manitoba.

1                   General Service Small and General  
2 Service Medium and Keystone Agriculture Producer  
3 intervention submits that Hydro's current General Rate  
4 Application proceedings provides an opportunity to  
5 examine Manitoba Hydro's strategic and operational  
6 decisions to date and the Utility's financial  
7 projections going forward.

8                   As has been well canvassed this  
9 morning, the overriding regulatory principle that  
10 ought to guide the Board in its deliberation, and when  
11 considering the proposed rate increase, is whether the  
12 rate appropriately considers the ratepayers and the  
13 fiscal health of the Utility.

14                  Moreover, by virtue of Order-in-Council  
15 92/17, the PUB has asked -- has been tasked, rather,  
16 with the additional duty of a careful examination of  
17 capital expenditures in the context of its rate  
18 approval function. Such an examination can be viewed  
19 as an expansion of the scope of the review compared to  
20 historic GRA proceedings in Manitoba.

21                  At a very high level the key narratives  
22 of the General Service Small and General Service  
23 Medium and Keystone Agriculture Producers intervention  
24 are as follows:

25                  The proposed rate increases cannot be

1 examined in isolation from assumptions regarding  
2 subsequent rate increase -- increases. It's important  
3 to keep in mind that the proposed rate increases  
4 result in a nearly 50 percent increase in the rates.  
5 The rate -- the proposed rate increases at the amount  
6 and the pace proposed are likely to have a significant  
7 impact on these Intervenor, both directly and  
8 indirectly. Indeed, the proposed rate increases and  
9 the pace proposed will have an impact on Manitoba's  
10 competitive advantage.

11 Another issue of concern to the interv  
12 -- to the Intervenor and, in particular, Keystone  
13 Agriculture Producers and the Canadian Manufacturers  
14 and Exporters Association is the anticipated carbon  
15 tax that we will be dealing with in Manitoba. As is  
16 well-known, the Pallister government announced on  
17 Friday, October 27th, 2017 its plan to introduce a  
18 flat \$25 cut -- carbon tax. It's submitted that this  
19 must be kept in mind when considering the proposed  
20 rate increase, and whether the rate of appropriately  
21 considers the ratepayers.

22 The combined impact of the rate  
23 increase and the carbon tax will have further negative  
24 impact on these Intervenor and reduce the bottom  
25 lines.

1                   On the issue of rate balancing or rate  
2 design, it's recognized that it's important that the  
3 revenue requirements of Manitoba Hydro are indeed met,  
4 however, it's equally important that rates should be  
5 cost based and that the cost burden of this revenue  
6 requirement be shared fairly among all customer  
7 classes.

8                   On the issue of revenue cost coverage  
9 of the GSS and GSM Intervenors, in particular, their  
10 RCC, the revenue cost coverage, is outside the zone of  
11 reason -- reasonableness as set by Manitoba Hydro  
12 itself. Acknowledging that this is a departure from  
13 cost of service principles, therefore, consideration  
14 needs to be given to the rates for all customers and  
15 whether they need to be appropriately adjusted in the  
16 context of this General Rate Application.

17                   On the issue of operating efficiencies  
18 and service quality, these Intervenors have the  
19 initial perspective that it remains unclear whether  
20 the measures taken by Manitoba Hydro are of a  
21 sufficient magnitude to assure that it is, indeed,  
22 operating at levels of productivity consistent with  
23 its peers. The size and the pace of the rate increase  
24 could be reduced.

25                   On the issue of Keeyask it's not about

1 looking in the past, it's about looking forward. On  
2 the whole, the proposed rate increase are in account  
3 of Manitoba Hydro's insistence on proceeding with the  
4 Keeyask project, as is. And it's reversal of its  
5 long-held pos -- positions as seen in previous GRAS on  
6 the issue of timing to increase its equity thickness.

7           In particular, in regard to Keeyask  
8 these Intervenors submit that that -- have the  
9 position that it should not be that -- that it should  
10 -- position that it should not be discussed in the  
11 context of the GRA -- that the position of the Keeyask  
12 should not be discussed in the context of this GRA  
13 respectfully misses the mark.

14           Again, in the context of the Board  
15 considering whether their proposed rate application  
16 appropriately considers the ratepayers and the fiscal  
17 health of the Utility, the Board ought to include the  
18 impact of Keeyask in that consideration. Where this  
19 leads you remains to be your decision, but this may  
20 very well lead to revisiting the Keeyask analysis.

21           Overarching concern of these -- but --  
22 of this -- Intervenors that the proposed increase and  
23 at the pace may very well drive away demand for the  
24 product that -- that Hydro is trying to deliver.  
25 Therefore, the pace of rate increases should be slowed



1 and the strength and prudence of ongoing investment  
2 program should be further reviewed.

3                   Ratepayers in the province of Manitoba  
4 will benefit both from a more gradual pace of rate  
5 increase and a full independent thorough review of  
6 options, costs, and indeed benefits related to  
7 Keeyask.

8                   These intervenors will be calling  
9 evidence dealing with these issues and subsidiary  
10 issues. On most of these matters the final positions  
11 will depend on examination of the evidence, as the  
12 case progresses. These Intervenor have heard the  
13 Board loud and clear. You may not see me here every  
14 day, it doesn't mean that I'm not following this  
15 matter through the transcripts, but we know that when  
16 the interests of our Intervenor are not being  
17 addressed then I best be gone. However, I will be  
18 following, and I will be present when the issues  
19 relevant and pertinent to my Intervenor are being  
20 addressed.

21                   Those are the submissions from the  
22 General Service Small, General Service Medium,  
23 Keystone Agriculture Producers Intervenor. Thank you  
24 very much.

25                   THE CHAIRPERSON: Thank you. M.

1 Hacault...?

2

3 OPENING COMMENTS OF MIPUG:

4 MR. ANTOINE HACAULT: Merci. My name  
5 for the record is Antoine Hacault, counsel for  
6 Manitoba Industrial Power Users Group; that is a  
7 fairly long name. So hello to all counsel, all  
8 parties, and those listening online.

9 I'm not going to read the entire  
10 statement that's been provided to each of the members  
11 of the Board and we have extra copies for people. We  
12 brought a total of twenty (20); gave eight (8) copies  
13 to Mr. Simonsen. I believe it's entered as MIPUG-22.

14

15 --- EXHIBIT NO. MIPUG-22: Opening Comments by MIPUG

16

17 MR. ANTOINE HACAULT: I must admit  
18 having done these hearings for about a decade now that  
19 it almost seemed like I was dealing with a new  
20 corporation. A radical change of whatever I'd seen  
21 because I did my first hearing back in the '80s of how  
22 this Corporation dealt with hundred year assets, how  
23 it integrated these big bulky capital investments into  
24 the system, and some of the statements that were made  
25 by Manitoba Hydro, it's almost as if everybody that

1 looked at this before, the Public Utility Board  
2 decisions that come every second year, all the  
3 experts, KPMG, Board counsel, experts, et cetera,  
4 everybody had unsound and unprincipled judgment. How  
5 can that be?

6                   We intend to show that there is no  
7 reason to depart from what's been happening for the  
8 last couple of decades; that there's no need to panic  
9 but -- and we're making these submissions on behalf of  
10 large industrial companies; as set out in our paper it  
11 includes a number of fairly substantial companies that  
12 provide significant employment and a significant  
13 contribution towards the Manitoba economy. I'm not  
14 going to enumerate them on the record. They're in our  
15 presentation. What I do note, though, is that this  
16 application has generated renewed interest and we've  
17 had four (4) new members join.

18                   Turning to page 2 of the paper. We  
19 emphatically disagree with Hydro's suggestion that  
20 this group of Intervenors has always had self-interest  
21 in mind. It's very important and I've mentioned it in  
22 previous hearings that we have stability and  
23 predictable rates. We've always been concerned with  
24 Manitoba Hydro's financial health and ability to  
25 withstand rate issues like interest rate issues,

1 waterflow issues. So I've listed some of the main  
2 concerns, which we've repeated in each and every  
3 hearing.

4                   Firstly, stability and predictability  
5 of rates over the long-term and short-term.

6                   Secondly, ongoing transparent  
7 regulation of Manitoba Hydro's rates and major capital  
8 spending.

9                   And thirdly, ensuring rates for all  
10 customer classes reflect the fair cost to serve the  
11 class. And we've just had a fairly extensive cost of  
12 service hearing on that.

13                   Why do we take this view -- and we're  
14 not fighting Hydro. It's not us against them. We  
15 want a good sound well-run Utility. We make long-term  
16 contracts as industrial companies. We have to have  
17 predictability and stability in what happens. And  
18 when we did NFAT hearings, I spent over half a day  
19 looking at scenarios like Hydro is facing today. High  
20 capital costs with various experts and various key  
21 management people at Manitoba Hydro and how are you  
22 going to deal with that and still maintain below 4  
23 percent increases?

24                   And they fully explained it. We're not  
25 in a radically changed world, and I'll show you that

1 in subse -- subsequent slides. I also dealt with in  
2 some of the hearings pacing and prioritization. So,  
3 you're going to hear some of that in our questioning  
4 and our presentation. That's all part of the Boston  
5 Consulting report also.

6 Pacing and prioritization of sustaining  
7 capital; that can have a pretty huge impact on what  
8 you need for cash flows.

9 Turning to page 3, we've heard many  
10 times - and I'm in the first full paragraph - that  
11 Manitoba Hydro has some of the lowest published rates.  
12 Well that may generally be true. Manitoba Hydro does  
13 not offer significant rate options for major  
14 industrial companies. The only we have -- only one we  
15 have, which has been capped, is a curtailable rate  
16 program. So we're going to be exploring some of that.  
17 That, in fact, was also raised by the Boston  
18 Consulting Group as something that should be addressed  
19 by Manitoba Hydro.

20 I'm not going to go through the next  
21 parts, I'm going to jump to page 5. The one (1) thing  
22 that we've seen, as I said, it's practically like  
23 being in front of a different corporation and a  
24 different approach because all of a sudden we're  
25 looking at a 10 year window on hundred year assets.

1                   And for those who were part of the NFAT  
2 you'll recall that the recurring theme was, this is a  
3 100 year asset, you can't limit yourself to a ten (10)  
4 year outlook or a short outlook because we've got  
5 Keeyask coming online in 2023. When does it start  
6 producing revenue; 2023.

7                   When is Hydro seeking all these major  
8 increases; before Keeyask is even fully in service?  
9 They're asking for 8 percent increases each and every  
10 year -- 7.9 is almost the same -- before the wheels  
11 even start turning and revenue start being generated.  
12 And in previous hearings for those who take time to  
13 look at the previous PUB decisions, there was always  
14 talk about a decade of investments, followed by  
15 returns. And for somebody like me who's been around  
16 since when we had been talking about Limestone, we had  
17 the same type of discussion. Limestone was a big  
18 project. Said, we've got major capital investments,  
19 but they'll pay for themselves over the long run.  
20 They're inflation protected and they start coming to  
21 their own and being very beneficial for Manitobans  
22 after that decade.

23                   So in the little item number (ii) on  
24 the slide that you have in front of you, our position  
25 in this hearing is that Hydro has substantial --

1 substantially changed its regulatory approach to rate  
2 setting during this period of capital investment. And  
3 it's shifted its outlook from a 50 to 100 year outlook  
4 to the IFF's integrated financial forecast of twenty  
5 (20) years down to ten (10) years. We've got to reach  
6 that 75/25.

7                   Another thing that history will teach  
8 us and if we go to the next slide and I've taken some  
9 of the illustrations. You can see from that slide,  
10 and this is the equity ratio, that during major  
11 periods of capital investment. So, from 19 -- in the  
12 early 1980s, we did Grand Rapids, Kettle, Jenpeg, Long  
13 Spruce. Because you're adding such big capital  
14 assets, it brings down the ratio and the ratios were  
15 in the 3 to 5 percent. We did Limestone. Again, the  
16 ratios were down there.

17                   But history has taught us, as you can  
18 see the upswings, once those big facilities come to  
19 their own, it's self-correcting but as a Crown  
20 Corporation backed by the province of Manitoban --  
21 Manitoba, all Manitobans and as we found in NFAT, the  
22 best long-term solution is having these big capital  
23 projects. But you have to ease them in to current  
24 ratepayers. You can't rate shock payers.

25                   I may be out of line by saying, but if

1 -- it was repeated a number of times by Mr. Rainke,  
2 Mr. Hacault, if you take a short-term view you'll  
3 never build these generations -- these big generators.  
4 Never build them. But it's the best long-term  
5 solution for Manitobans.

6           But you can't have it both ways. You  
7 can't come to the NFAT and say, Take a patient capital  
8 approach. This is how our Utility has been run for  
9 decades, and it's worked well for us and served  
10 Manitobans well. And then come at the next rate  
11 application and say, whoa, whoa, whoa, we're going to  
12 take a totally different view to what's happened for  
13 decades.

14           So that going to the bottom of the  
15 slide, number 5, it's important to remember that the  
16 NFAT filing rate scenarios were based on twenty (20)  
17 years to achieve this 75/25 ratio. But we also had a  
18 lot of discussions about alternative rate scenarios  
19 which smooth it -- that rate shock even more by  
20 lowering that expectation that we wouldn't have to  
21 reach that in the next twenty (20) years. And that  
22 led to a very considered decision based on a number of  
23 experts where the PUB recommended, and the Minister  
24 accepted, considering relaxing financial targets  
25 further than twenty (20) years to consider ratepayer



1 impacts.

2 To page 8, please. Because I'm not  
3 going through each paragraph, doesn't mean I don't  
4 think they're important but I've got timelines to  
5 follow.

6 So if we look at the graph and say,  
7 well, we were testing a whole bunch of scenarios in  
8 NFAT. It's just a couple years ago. And we were  
9 testing what the cost to Manitobans would be based on  
10 various scenarios: Capital costs, interest rate  
11 swings, et cetera. Where were we going to be? And  
12 everybody had to be comfortable that the worst  
13 scenario was something we could live with because we  
14 couldn't live with the worst scenario. The one (1)  
15 thing we know for sure, you can't predict the future.

16 But where are we at? This is one (1)  
17 of the graphs that's produced and it's referenced on  
18 the source. So far we're below what we thought.  
19 That's the -- I don't know if you can see it on the  
20 screen, but the little red line, the red line is  
21 actuals. The red line is below the blue line which is  
22 pretty much what was recommended by the PUB as a plan.  
23 So what's the net cost to Hydro's domestic system of  
24 knowing where we were going, where are we at today?  
25 Where did we think we were going?

1                   Sure it changes over time; that's  
2 forecasts. But it's not a dire and extreme new set of  
3 facts that we're facing. In fact, if we look --  
4 that's Roman Numeral Number IV and NFAT's a couple  
5 years ago, we were reaching a low point of eight  
6 percent of equity during the twenty (20) year  
7 forecast.

8                   By the next IFF, IFF-15 we got up to 12  
9 -- 10 percent equity; not bad. Now, even with the  
10 3.95 percent increases, not the 7.9 asked for, you get  
11 12 percent; not bad. Now, part of what's happening  
12 and we'll get into it in a little bit more detail.  
13 I'm not a good financial guy, but I understand  
14 depreciation creates an expense on the books -- it's  
15 always amazing how accountants can do this -- which  
16 over the hundred years or so, the life of the assets,  
17 all the ratepayers will end up paying for that asset.  
18 Because that's an expense that goes into your  
19 financials, each and every year.

20                   So I have a mortgage with a 25 year  
21 amortization; over 25 years, I would pay that  
22 mortgage. But I may be not understanding it  
23 correctly but we'll explore this. What Hydro is  
24 saying is, okay, well, you're going to be paying your  
25 annual depreciation so it's like your mortgage

1 payments over the hundred years but, in addition, in  
2 the first five (5) years we want you to pay -- in  
3 addition to that depreciation, 25 percent of the costs  
4 in new assets; Bipole III and Keeyask. Upfront.

5           Well, we're going to challenge that on  
6 intergenerational equity. Why should people in  
7 addition to paying over the hundred years, as you'd be  
8 expected because it's used and useful over that time,  
9 have to upfront that much money that quickly, when we  
10 know that those assets will produce substantial  
11 revenue and benefits in the latter part of their  
12 years.

13           The other issue that's on -- on the  
14 next slide that's out in front of you is debt  
15 repayment. As you can see going back from the 1980s  
16 there's never really been a substantial and aggressive  
17 debt repayment. As and when we've been building our  
18 system, we've taken on some new debt, paid off some  
19 debt but, slowly, we've been increasing our debt, and  
20 there's never been an aggressive repayment. So that's  
21 another -- a new attitude, a new view of how things  
22 ought to be done at this Corporation, with which...

23           Go to page 12, please. Our view,  
24 generally, is that the methods used in Hydro's current  
25 financial forecast tend to overstate costs and

1 understate revenues and we'll go through that in the  
2 hearing.

3                   In the bullet under Roman Numeral III,  
4 policies with respect to overheads and depreciation  
5 are not consistent with PUB directions and we'll also  
6 want to test DSM spending as an integrated resource  
7 plan issue that causes a lot of issues.

8                   Going to the next table, page 13. One  
9 of the first slides of Manitoba Hydro is that there  
10 wasn't enough there to handle the risks. We're going  
11 to be dealing with that. We've currently got about  
12 \$2.7 billion of retained earnings. As you can see our  
13 biggest risk on this on the left-hand side with the  
14 update is a five (5) year drought. It's about 1.2  
15 billion even if you add all the negative swings on  
16 domestic growth interest rates, we're still below what  
17 our retained earnings are so we can withstand that  
18 easily.

19                   The last general issue that I want to  
20 address in my presentation is the impacts on the  
21 economy. This issue was raised by Boston Consulting  
22 Group with Manitoba Hydro. We've seen no evidence of  
23 -- I wouldn't say a thorough and serious analysis of  
24 what is going to happen with these huge rate  
25 increases.

1           Just a snapshot, the total amounts that  
2 are going to be collected -- and I'll get to this  
3 graph -- under a 7.9 versus 3.95 scenario over ten  
4 (10) years is \$3.6 billion; that's \$362 million a year  
5 roughly. To put it into perspective, the amount of  
6 tax collected for -- on Manitoba Corporation's tax is  
7 lower than that; 334 million. Payroll tax is 477  
8 million. And the provincial sales tax which caused a  
9 big fuss with a 1 percent increase on how that was  
10 going to impact the economy is 2. -- 294 million.

11           So we're proposing a bigger impact on  
12 this economy than what the provincial sales tax  
13 increase was. And Boston Consulting, if you look at  
14 the graph, at the very bottom right-hand corner,  
15 they've got large industrial, that would be our group  
16 of customers, Hydro has been warned without any  
17 further studies being done, that there's a higher risk  
18 of shutdown and job losses in our sector.

19           The other untold story was the counsel  
20 for Manitoba Hydro said, Well, we're going to be  
21 paying a huge amount in interest. We will be paying,  
22 but there's about half a billion dollars a year of  
23 total government charges that will be paid out of  
24 these rates. Half a billion dollars a year. And you  
25 can see just the debt guarantee fee on these new

1 projects, based on the slide, forms a substantial  
2 part.

3                   For those who are listening, that  
4 guarantee fee, the government borrows the money at,  
5 say, about 3 percent and then it charges about 30  
6 percent additional, a 1 percent charge on that  
7 borrowing to pass it on to Manitoba Hydro. And the  
8 debt guarantee fee on these new projects, you can see,  
9 will form substantial part of what comprises the  
10 interest payment.

11                   Thank you very much and we look forward  
12 to providing further detail on our positions during  
13 the course of this hearing.

14                   THE CHAIRPERSON: Thank you. Mr.  
15 Orle.

16

17 OPENING COMMENTS BY MKO:

18                   MR. GEORGE ORLE: Good morning, Mr.  
19 Chairman, members of the panel. My name is George  
20 Orle. I represent Manitoba Keewatinowi Okimakanak in  
21 these proceedings. Grand Chief Sheila North was  
22 expected to come and to make an opening statement on  
23 behalf of MKO. She, unfortunately, is in Montreal and  
24 is unable to be here. With me is Kelvin Lynxleg, who  
25 is the Executive Director, who has brought some

1 comments from Grand Chief Sheila North. And as part  
2 of our opening statement I would like permission to  
3 have Kelvin Lynxleg make that statement.

4 THE CHAIRPERSON: Certainly.

5 MS. KELVIN LYNXLEG: Good morning,  
6 everybody. Thank you. Grand Chief She -- Sheila  
7 North Wilson sends her regrets and thanks you for  
8 allowing us to make a brief statement.

9 Do you have lights in your home? Thank  
10 a First Nation. Are you able to warm your family and  
11 protect them from the elements. Thank a First Nation  
12 and its people. Thank them for the sacrifices they  
13 have made to their lands and resources, their way of  
14 life and access to traditional foods and activities.  
15 Manitoba Hydro projects impact the north and the land  
16 of the First Nations people that reside there, and  
17 will continue to impact them for generations to come.

18 Sorry. The First Nations people that  
19 MKO represents are among the poorest in Manitoba. It  
20 is these families that are going to be impacted  
21 negatively by the proposed rate hike. Our families  
22 are already impacted by exorbitant food and  
23 transportation costs. The proposed rate hikes will  
24 force our families to take even more food off their  
25 tables and clothes off their children's backs to pay

1 for these increases.

2                   Our families already pay for more  
3 services due to heating their homes in extreme -- in  
4 the extreme weather conditions and -- and substandard  
5 inadequate housing. The diesel communities also need  
6 to be taken into consideration in how much more it  
7 will cost them to run generators in the communities.  
8 These communities are already at a disadvantage with  
9 having to -- to rely on gene -- to rely on generators.

10                   It is my sincere hope that the -- that  
11 the representatives who sit on this Board and who will  
12 ultimately make this decision will educate themselves  
13 on our shared history of our treaties, the call to  
14 reconciliation, and the declaration of the rights of  
15 indigenous people. You need to learn more about our  
16 people and our communities, and see what First Nations  
17 people deal with on a daily basis in order to be able  
18 to make your decision, so you can really understand  
19 how decisions you make regarding this rate hike will  
20 impact us.

21                   Manitoba Hydro needs to be the one (1)  
22 to start making it responsive -- Manitoba Hydro needs  
23 to be the one (1) to start taking responsibility and  
24 the ownership and start making some sacrifices. It  
25 can't always be left up to our First Nations and our



1 people to make all the sacrifices. Thank you very  
2 much.

3 MR. GEORGE ORLE: Thank you. Members  
4 of the panel, MKO represents more than sixty-five  
5 thousand (65,000) treaty First Nation citizens in  
6 northern Manitoba. It's a nonprofit advocacy --  
7 advocacy organization governed by the elected chiefs  
8 of the thirty (30) sovereign First Nations in northern  
9 Manitoba.

10 In these hearings, MKO will focus its  
11 attention on the matters of rates and the impact on  
12 rates upon the citizens in the MKO First Nations, and  
13 on the facilities operated by the MKO First Nations.  
14 The citizens of the MKO First Nations are residential  
15 ratepayers and the First Nation governments are  
16 general service ratepayers. The three (3) diesel  
17 First Nations which pay electricity bills for the  
18 schools are also First Nation education rate  
19 customers.

20 All of the citizens of the MKO First  
21 Nations and the MKO First Nation government facilities  
22 receive electrical service solely from Manitoba Hydro.  
23 These proposed high rate increases will have a  
24 disproportionate impact on the residential and general  
25 ratepayers in the MKO First Nations. In fact, these

1 may be described as critical and to the point where  
2 there may not be ratepayers able to pay any of  
3 electricity rates. That's not an exaggeration.

4           At the last hearing that we had, the  
5 number of ratepayers that were in arrears, the number  
6 of First Nations that were in arrears was an  
7 astounding member many times higher than those in  
8 other communities comparable in size and comparable in  
9 the locations. It's not a coincidence that they are  
10 unable to pay this. First Nations are much in the  
11 same category as senior citizens. They are on a fixed  
12 income. For almost all of these First Nations their  
13 income comes from the federal government. That amount  
14 is not consistent. That amount does not have any  
15 relationship to what the actual costs in the community  
16 are.

17           The fact that they cannot meet their  
18 obligations at the present time with the funding that  
19 is available to them will mean that that will become  
20 even a greater problem. There will be more  
21 disconnects. There will be people moving into houses  
22 with other families in order to be able to accomplish  
23 this. This will have an effect upon them that will be  
24 greater than any of the other problems faced by other  
25 ratepayers.

1                   Since the hearings on NFAT in 2014, the  
2 needs for and alternatives to, it's been recognized  
3 that some form of relief is necessary to help those  
4 disproportionately affected by the high rates. And  
5 the rates that we were talking about at that time were  
6 half of what was being proposed at this time.  
7 Recommendations were made and accepted by the former  
8 government that funds paid to the government by Hydro  
9 will be reduced. They have not.

10                   Plans were put into place to have  
11 income assistance programs in place. They have not  
12 occurred. We're still at the point of having  
13 discussions and asking for additional studies to be  
14 made. That is not appropriate, not given the  
15 magnitude of the rate increases that are being asked  
16 for.

17                   This also is a matter of trust and  
18 there is a trust. The MKO First Nations took an  
19 active role in the in the NFAT hearings on the  
20 understanding that if rate increases were necessary,  
21 they would be looked at, they would be examined, they  
22 would be made appropriate. And that's what was done,  
23 and the rate increases approved at that time were  
24 substantially lower than was being done right now.  
25 And that NFAT hearing was not meant to be a short-term

1 solution. It was meant to be a long-term solution.

2                   Where is the trust? Where is the trust  
3 that MKO can have in ongoing proceedings where the  
4 amount of the rate appears to change on a cavalier  
5 attitude from year to year, that it goes from three-  
6 point-five (3.5), three-point-nine (3.9), to a number  
7 above that in the fours, and then all of a sudden on  
8 several months notice it jumps to 7.9 percent.

9                   Where is the trust in the Public  
10 Utilities Board hearings? Where is the trust in the  
11 experts? The experts didn't come before the Board and  
12 get paid millions of dollars to give you a short-term  
13 solution that was going to work for two (2) years and  
14 did not take into account any of the factors now being  
15 brought before -- or brought before the Board by  
16 Hydro. And if they didn't take them into  
17 consideration, or if they did take them into  
18 consideration why is it that Hydro now comes up with a  
19 completely different set of scenarios that warrant a  
20 7.9 percent increase?

21                   The MKO First Nations want to be  
22 assured that the decisions that are made are based  
23 upon legitimate grounds, that they're not based upon  
24 changes in policy that are arbitrarily made, or that  
25 they're somehow ideologically motivated. Because

1 that's not the basis of the arrangements that were  
2 made with the First Nation.

3           First Nations, the MKO First Nations,  
4 particularly the flood affected First Nations, made a  
5 pact. They provided land. They provided lifestyles.  
6 They took a loss in the ability to engage in their  
7 lifestyle in return for giving up to Manitoba Hydro  
8 the ability to build on their lands, to affect their  
9 rivers, their streams. And in that they were promised  
10 that this was going to be for the greater good of all  
11 of Manitoba, that they had faith that this resource  
12 which they were turning over to Manitoba Hydro would  
13 be managed properly and effectively.

14           In effect, they took on long-term pain  
15 because that's what it is long-term pain, but it was  
16 going to be for a long-term interest. What it's  
17 turned out to be is that MKO First Nations have  
18 accepted long-term pain. They have gotten short-term  
19 relief. Raising the rates in the way that they're  
20 being asked to be raised right now makes a mockery of  
21 all of the decisions made by First Nations that they  
22 would provide and help Manitoba Hydro and the citizens  
23 of Manitoba.

24           There been considerations made as to  
25 how they can have some of their problems alleviated,

1 but beyond talking they go no further than that. It's  
2 a time for some concrete action. There has to be a  
3 very significant review of whether or not these  
4 requests are financially credible, and if they are,  
5 and they still result in a rate increase that's  
6 substantially higher than can be incurred by the First  
7 Nation, then there have to be immediate and practical  
8 effects put in.

9                   They can be as simple as taking the  
10 calculation of the money that is paid to the  
11 provincial government which the First Nations do not  
12 get a benefit from. That amount can be calculated and  
13 placed back into the ratepayers -- the ratepayers of  
14 the First Nations who can be easily identified. There  
15 is no problem in identifying who these people are.  
16 And it can be paid either by way of a rebate, or it  
17 can be paid on the basis of a lowering of the rates  
18 for those people.

19                   There are parts of the rates that  
20 include the mitigation damages to the First Nations.  
21 It's inconceivable that for years and years MKO has  
22 asked that the amount that they are receiving as  
23 mitigation not be clawed back from them in the rates.  
24 Again, that's an easily identifiable number. It can  
25 be paid back out again, either through a rebate or

1 through a reduction in the rates.

2                   That's a first step. It's something  
3 that's doable right now. It doesn't require another  
4 two (2) to three (3) years of studies, of discussions.  
5 There is an immediate need. There's a saying, Never  
6 let the best become the enemy of the good. The best  
7 would be a solution that the experts talk about here.  
8 We can do this here, we can do that. But that doesn't  
9 help the people on the ground right now.

10                   What's needed is an amount that is  
11 calculable and put in. There's been talk in part of  
12 the proceedings that perhaps a modified or an actual  
13 reduction based upon what the cost of gas services,  
14 that that would be an appropriate measure to say that  
15 those First Nations that rely only upon electrical  
16 heat for maintaining their homes, that the rate that  
17 they be charged be the same rate that's charged to gas  
18 customers. That that's a way of ameliorating the fact  
19 that customers in Winnipeg and southern Manitoba can  
20 take this measure to help themselves.

21                   Having various programs to effect  
22 energy conservation are good, but they don't take into  
23 effect the fact that if you take all of the same  
24 energy provisions in southern Manitoba and apply them  
25 to nor -- northern Manitoba, you're still going to end

1 up using more energy in northern Manitoba. The number  
2 of hours of sunlight, the difference in the  
3 temperatures already pose a greater need for  
4 electricity than what's required in the south.

5                   These are calculable numbers. It's a  
6 matter of deciding that it's a principal worthwhile  
7 enforcing, and to say that part of the rate-making  
8 process is the well-being of ratepayers, particularly  
9 ratepayers that have been disproportionately  
10 disadvantaged by the fact that these projects came  
11 into being. That is the twin hopes of MKO, that first  
12 of all you will take a very hard look at what  
13 justifies the increases that are being asked for.

14                   And secondly, that regardless of the  
15 rate increase that you take action now, not three (3)  
16 years from now, or five (5) years from now to assist  
17 in these projects that are necessary to reduce the  
18 electric -- electrical -- electrical costs for the  
19 First Nations.

20                   And I know that we talked about the  
21 financial well-being of the utility, as well as the  
22 financial well-being of the ratepayer, but it's not  
23 your job to take into account the financial well-being  
24 of the utility if the utility itself has not taken  
25 proper measures to look after itself. The job of



1 Manitoba Hydro is to operate itself effectively, and  
2 to operate itself in a way that doesn't cause it to  
3 become a burden upon the province if they haven't done  
4 that, is it appropriate for them to come to you and  
5 say, Under legislation, you're required to look after  
6 our well-being. You're required to make us  
7 financially sound.

8                   Well, it's not your job to run their  
9 companies and if they run them into the ground and  
10 they can make their payments, then they have to deal  
11 with it. My clients, MKO First Nations, if they're  
12 unable to deal with their matters, they going into  
13 third-party management. They don't have a choice.

14                   THE CHAIRPERSON: Mr. Orle, are you  
15 close to wrapping up?

16                   MR. GEORGE ORLE: That was going to be  
17 my last statement. And I was just going to bring home  
18 with one (1) example from our last hearings about the  
19 effect that it has upon people, the effect that it has  
20 upon the economy, and the way that it reverberates  
21 through society. There is the example of the young  
22 woman in the First Nation who managed to work her way,  
23 and her education to be able to get off welfare and to  
24 go to work, become a productive member of the  
25 community, a productive member of the province.

1                   The electrical rates which had been  
2 paid for by welfare were so high when she got off  
3 welfare, she could not afford to maintain a job and  
4 look after her family. She needed to go back on  
5 welfare, a loss of a productive individual in the  
6 province because of the fact that the rates were not  
7 rates that could be affordable.

8                   Thank you, Mr. Chairman, members of the  
9 panel.

10                   THE CHAIRPERSON: Thank you. Mr.  
11 Fergusson.

12

13 OPENING COMMENTS BY CITY OF WINNIPEG:

14                   MR. DARYL FERGUSSON: Thank you, Mr.  
15 Chair and members of the Board, and fellow counsel.  
16 I'll be brief, in view of the introductory remarks  
17 that you've already had from various of the  
18 intervenors and Manitoba Hydro. My name is Daryl  
19 Fergusson, and I am in-house counsel for the City of  
20 Winnipeg.

21                   As you are aware, the city is the  
22 capital of the province of Manitoba. It's the largest  
23 municipality in Manitoba, and has a population of  
24 approximately seven hundred and ten thousand (710,000)  
25 residents. The City of Winnipeg's gross domestic

1 product represents approximately 67 percent of the  
2 province of Manitoba's gross domestic product. So  
3 that the economic impacts of this rate hearing and the  
4 proposed rates of Manitoba Hydro are matters that the  
5 City of Winnipeg takes very seriously.

6           The city's concerns regarding the rate  
7 proposals are set out in the pre-filing testimony of  
8 the city's economist Tyler Markowsky. And Mr.  
9 Markowsky brings somewhat of a unique perspective to  
10 the matter before you, in that prior to joining the  
11 city as its economist he was employed as an economist  
12 with Manitoba Hydro. And he is in a position to  
13 address a number of the issues raised by Manitoba  
14 Hydro, and in particular Manitoba Hydro's historical  
15 risk analysis of its financial picture.

16           It is the City of Winnipeg's position  
17 that Manitoba Hydro's rate increases requested in this  
18 application are not supported by the evidence that you  
19 will hear during the course of this hearing. The  
20 proposed rate increases create a significant cost  
21 increase both in terms of direct and indirect costs to  
22 the City of Winnipeg that in light of the city's own  
23 current financial circumstances are unsustainable.

24           Those cost increases would necessarily  
25 result in the city of those costs having to be passed

1 on to cities and business -- residents and -- and  
2 businesses of the City of Winnipeg through one (1) or  
3 a combination of three (3) options: increased  
4 property taxes, increased user fees, or a reduction in  
5 services provided to Winnipeggers.

6           And, indeed, I expect that the evidence  
7 that you will hear over the course of the hearing are  
8 that all businesses in the Province of Manitoba, not  
9 just the City of Winnipeg -- service suppliers to the  
10 City of Winnipeg, will pass those costs on to their  
11 customers, their residents, be they other  
12 municipalities or be they private enterprises. And  
13 the impact will be an increase in the cost of living  
14 to Manitobans generally. And I don't think that  
15 there's any dispute about that by Manitoba Hydro.

16           In its submissions Manitoba Hydro this  
17 morning suggested to the Board that you can approach  
18 this in a complex manner or a straightforward manner.  
19 And by "complex," they ask you to in effect ignore the  
20 evidence of the various Intervenors because it's too  
21 voluminous, which in some respects begs the question  
22 as to why Intervenors are here at all in Manitoba  
23 Hydro's view. They ask you to accept their analysis  
24 without scrutiny by Intervenors, such as the City of  
25 Winnipeg.

1                   That is -- that's not the process for  
2 you to follow. The process for you to follow is to  
3 consider all of the evidence put forward by all of the  
4 parties and make an informed decision based upon that  
5 evidence before you.

6                   I want to speak briefly on -- on one  
7 (1) issue that Manitoba Hydro has raised and is the  
8 unfair burden shifted to ratepayers in the future  
9 unless this rate increase that they propose is adopted  
10 by the Board. Manitoba Hydro speaks of a -- a  
11 temporal intergenerational impact that will be  
12 negative. And the City of Winnipeg has two (2)  
13 comments in that regard.

14                   First, and I believe the evidence that  
15 you will hear will support this, that that issue  
16 simply has not been studied. And you won't find  
17 evidence to support that conclusion that Manitoba  
18 Hydro has offered this morning. And secondly, future  
19 generations will not just bear costs of -- of Hydro  
20 rates today, but they will bear the fruits of those  
21 costs in the future, just as all of us here today have  
22 benefitted from decisions that have been made by past  
23 generations. So I ask you to -- to bear that in mind  
24 when you are considering Manitoba Hydro's supposition  
25 that the Intervenors' evidence merely shifts this

1 burden unfairly to ratepayers in the future.

2                   The City of Winnipeg recognizes  
3 Manitoba Hydro's responsibility to set just and  
4 reasonable rates. And the City of Winnipeg's position  
5 is the rate increases proposed do not meet that test.  
6 We look forward to your considered decision based upon  
7 the evidence that will -- you will hear over the  
8 course of this hearing. And on behalf of the  
9 residents of the City of Winnipeg, I wish to thank you  
10 for the opportunity to make these introductory remarks  
11 and look forward to the hearing as it proceeds. Thank  
12 you.

13                   THE CHAIRPERSON: Thank you. I'd like  
14 to thank counsel and the parties for not only adhering  
15 to the schedule, but being early. We're going to take  
16 a break now and we'll reconvene at quarter to 1:00.  
17 Thank you.

18

19 --- Upon recessing at 11:45 a.m.

20 --- Upon resuming at 12:49 p.m.

21

22                   THE CHAIRPERSON: Okay. If we can  
23 resume, Ms. Ramage.

24                   MS. PATTI RAMAGE: This afternoon,  
25 Manitoba Hydro will present the direct evidence of our

1 President and CEO Kelvin Shepherd and of Jamie  
2 McCallum, our Chief Financial and Strategy Officer.

3 But before we do that, a quick  
4 housekeeping matter is, they will be doing their  
5 presentation in presentation form, but a quick  
6 question for them just to -- to -- to get everything  
7 straight on the record, and that's for you, Mr.  
8 McCallum. You are the member of Manitoba Hydro's  
9 executive, responsible for the preparation of Manitoba  
10 Hydro's pre-filed evidence in this hearing?

11 MR. JAMES MCCALLUM: That's correct.

12 MS. PATTI RAMAGE: And do you adopt  
13 this evidence on behalf of Manitoba Hydro?

14 MR. JAMES MCCALLUM: Yes, I do.

15 MS. PATTI RAMAGE: Oh, I guess we  
16 should...

17

18 MANITOBA HYDRO PANEL 1:

19 KELVIN ANGUS SHEPHERD, Sworn

20 JAMES ANDREW MCCALLUM, Sworn

21

22 MS. PATTI RAMAGE: And now that you're  
23 sworn, Mr. McCallum, we'll try that again.

24 Do you adopt the pre-filed -- Manitoba  
25 Hydro's pre-filed evidence on behalf of the

1 Corporation?

2 MR. JAMES MCCALLUM: Yes, I do.

3

4 PRESENTATION BY MANITOBA HYDRO PANEL 1:

5 MR. KELVIN SHEPHERD: Good afternoon,  
6 Mr. Chairman, Madam Vice-Chair, Board members. My  
7 name is Kelvin Shepherd. I'm the President and Chief  
8 Executive Officer of Manitoba Hydro. Thank you for  
9 the opportunity to present today.

10 I'll begin by acknowledging we are  
11 gathered on Treaty 1 territory and the homeland of the  
12 Metis nation. Manitoba Hydro has facilities across  
13 this province, and we have a long history of  
14 interaction with many indigenous communities along the  
15 Winnipeg, Saskatchewan, Churchill, Rat, Laurie,  
16 Burntwood, and Nelson River systems. Our major  
17 generation facilities are located primarily within the  
18 traditional lands of the Cree in Treaty 5 territory.

19 Six (6) months ago on May 5th, we filed  
20 our general rate application. Since that time,  
21 Manitoba Hydro has produced an enormous amount of  
22 information and analysis, as of other parties involved  
23 in this proceed -- process, such as the independent  
24 expert consultants engaged by the Public Utilities  
25 Board and other advisors hired by Intervenors. I



1 believe the running tally is somewhere in the  
2 neighbourhood of thirty-two thousand (32,000) pages of  
3 material filed on the public record. It would be  
4 nearly impossible for any one (1) person to synthesize  
5 all this detailed information.

6           So our purpose today is to lay out,  
7 from Manitoba Hydro's perspective, what we see is the  
8 big picture, material, and important matters that the  
9 -- rest at the heart of our rate application and  
10 financial plan. The next ten (10) weeks will  
11 necessarily explore a great many issues and in great  
12 detail. However, upfront, we think it's worth  
13 grounding the Board in the key issues that we can't  
14 lose sight of as we proceed through this oral hearing.

15           We have organized today's presentation  
16 as follows.

17           First, we'll start with a quick  
18 refresher on Manitoba Hydro, its electric business,  
19 and the scale of our operations.

20           Second, an overview of our new  
21 financial plan and the rationale behind it.

22           Third, a summary of the major business  
23 risks we face, which are crucial to understanding why  
24 it's so critical we not defer dealing with our debt  
25 problem any longer.

1           Fourth, key facts of this rate case.  
2 This is where we will lay out the major themes we'll  
3 keep drawing you back to over the coming weeks, as we  
4 all work through the details of this hearing.

5           Fifth, to put some context to why it is  
6 so important we act, we thought we should provide some  
7 history on how we got to this point.

8           And sixth. And finally, we will  
9 address some of the concerns and alternative views  
10 that have become apparent through the evidence brought  
11 into this process to date.

12           We have a team -- slide 3. We have a  
13 team here today to help answer questions as needed,  
14 but the principal speakers for today's presentation  
15 are Jamie McCallum and myself. I'll just briefly  
16 introduce us, beginning with my own background.

17           I've been with Manitoba Hydro as  
18 President and CEO for two (2) years as of this week.  
19 My professional background includes my training as a  
20 professional engineer with a degree in electrical  
21 engineering. I spent about the first twenty (20)  
22 years of my career with Sasktel, a Saskatchewan Crown  
23 Corporation providing telecommunication services;  
24 primarily in Saskatchewan, although I also had some  
25 international consulting and management exposure

1 during that time. Starting as an engineer designing  
2 microwave and fibre-optic systems, I progressed to  
3 Senior Vice-President and Chief Technology Officer  
4 with responsibility for network services, wholesale  
5 customers, advanced information services, and  
6 corporate IT functions.

7                   Moving to Winnipeg in late 2000, I  
8 joined MTS Communications as Vice-President Network  
9 Services and CTO. In fifteen (15) years with MTS and  
10 MTS Allstream, I function in a number of roles,  
11 including nine (9) years as President, leading one (1)  
12 of two (2) major operating divisions of MTS Allstream  
13 After leaving MTS in late October 2015, I joined  
14 Manitoba Hydro in December of 2015.

15                   My colleague Jamie McCallum is our  
16 Chief Finance and Strategy Officer, a position I  
17 appointed him to in early 201. Jamie is new to  
18 Manitoba Hydro and to the utilities industry. I  
19 brought Jamie to the company in 2016 to work with me  
20 in the development and execution of a new strategic  
21 and financial direction for the company. We'll talk  
22 about this more shortly. But I saw a need for new  
23 financial leadership to drive the capital and  
24 operating discipline and strategic focus we need to  
25 set and meet our goals.

1                   Jamie brings a wealth of experience as  
2 a private equity investor and corporate director  
3 setting strategic direction in leading capital and  
4 financial planning. Jamie spent almost the first  
5 decade of his career as an investment banker mostly at  
6 two (2) of the largest such firms in the world,  
7 advising corporate and government clients around the  
8 world, around the globe, on capital raising mergers  
9 and acquisitions and strategy. He has an expert level  
10 of understanding of how companies make business  
11 choices, plan and manage their finances, access  
12 capital markets, and think about risk.

13                   Slide 4. Turning to our new financial  
14 plan, the task in front of this Public Utilities Board  
15 is challenging, and I understand, to some extent, you  
16 are in an unenviable position. While the questions at  
17 hand are fairly straightforward, there are very  
18 difficult choices to be made.

19                   Manitoba Hydro is presenting a very  
20 candid and troubling picture of its financial  
21 condition. We are being transparent and factual, and  
22 despite what some may say, I don't believe we are  
23 alarmist. The situation is severe, and the Manitoba  
24 Hydro board, and I personally, believe the only  
25 correct choice is to act decisively and expeditiously.

1                   There are a lot of things that impact  
2 the financial path of our business that we can only  
3 make reasoned forecasts about: water conditions,  
4 interest rates, export prices, more renewed export  
5 contracts, growth, or lack of it in Manitoba  
6 consumption. These are all examples.

7                   However, what we know for certain is  
8 that Manitoba Hydro has an enormous amount of debt and  
9 has no path forward that does not include  
10 significantly adding to that debt. The risks and  
11 consequences of this debt, if left unchecked, for  
12 Manitoba Hydro and its customers, could impair not  
13 only the electrical utility, but also the financial  
14 well-being and competitiveness of our customers in the  
15 broader Manitoba economy for years if not decades to  
16 com.

17                   Together as a company, and with our  
18 regulator, we have to come to terms with a debt  
19 balance that is already growing and will continue to  
20 grow out of all historical proportion to the size of  
21 our business. At stake is our ability to continue to  
22 meet our mandate of providing safe and reliable energy  
23 to Manitobans at stable, predictive, and competitive  
24 prices.

25                   We acknowledge that our proposed rate

1 path is now higher, albeit for a shorter period, than  
2 previous management for Hydro has championed in past  
3 proceedings before this Board. However, we do not  
4 believe there is any remaining choice but to act  
5 decisively no.

6                   Manitoba Hydro and the Public Utilities  
7 Board has to be responsive to today's realities and  
8 today's situation. We cannot stick to an old outdated  
9 plan that just does not -- just does not work.  
10 Previous plans simply left Manitoba Hydro and its  
11 customers far too exposed for too long. We are seeing  
12 that proven already in a severely deteriorated outlook  
13 for our business.

14                   Right now we are cash flow negative on  
15 our core business operations. What we mean by that is  
16 even putting all of the spending and interest payment  
17 burdens of our major capital projects, Keeyask and  
18 Bipole III, to the side, we are borrowing money just  
19 to meet our interest payments and fund the ongoing  
20 needs of running today's business. This is not  
21 sustainable.

22                   The debt we will inescapably build over  
23 the next several years is, simply put, unsustainable.  
24 The only -- the old way of thinking about how to fix  
25 Manitoba Hydro's finances, and how long to take to do

1 it will simply not work. The old plans have clearly  
2 already failed. We cannot put this off any longer.  
3 Action to address today's immediate situation is  
4 required if we are to protect all stakeholders' long  
5 term best interests.

6                   Slide 5. We certainly recognize that  
7 the rate increases we've asked for and the future rate  
8 increases that are forecasted as part of our new  
9 financial plan will not be popular, nor without  
10 consequence. We are sensitive to concerns that  
11 justifiably exist about the negative impacts on our  
12 low-income indigenous electric heat and heavy  
13 industrial customers. We are not asking for any more  
14 than we think is necessary.

15                   As you will understand, under our  
16 legislative mandate none of us have corporate or  
17 printed personal financial motivation or incentive for  
18 seeking higher rates. We're solely motivated to act  
19 in the interests of the Corporation and its  
20 stakeholders. We have a duty to maintain Manitoba  
21 Hydro's financial security and to do what is in all of  
22 our int -- customers' best interests over the long  
23 run. Our job is to run sound, financially sustainable  
24 utility.

25                   Questions of income and energy poverty

1 and economic competitiveness are certainly important  
2 and ones we have considered to the degree we can. But  
3 these are really issues of broad public policy and  
4 cannot easily be resolved through a rate-setting  
5 process. The responsibilities and tools for such  
6 matters do not rest with Manitoba Hydro or this Public  
7 Utilities Board.

8           Manitoba Hydro has always worked and  
9 will continue to work with all stakeholders on these  
10 kinds of issues, and will seek to play a positive role  
11 in solutions that improve the economic conditions for  
12 all Manitobans. But income adequacy and economic  
13 development issues are mostly beyond Manitoba Hydro's  
14 mandate or control. We cannot and should need not use  
15 this rate-setting hearing to do the work of developing  
16 and implementing public social policies. We are not  
17 well-equipped to handle these issues and the potential  
18 consequence of trying to do so is compromising both  
19 the financial integrity of the utility and ultimately  
20 making decisions that result in the transfer of costs  
21 from some groups of customers to other customers.

22           I believe these issues are best left to  
23 government, who are responsible for establishing the  
24 appropriate policy framework and directives for both  
25 Manitoba Hydro and this board to follow.



1                   Before making this rate application, we  
2 took steps that reasonable persons would expect to  
3 mitigate rate impacts on our customers, including  
4 undertaking a significant acceleration of cost  
5 reductions. Manitoba Hydro has already, through  
6 attrition, reduced the staffing by more than four  
7 hundred (400) operational positions over the previous  
8 three (3) years.

9                   In addition to this, our plan involves  
10 a roughly 15 percent overall reduction in actual staff  
11 count, which we are well on our way to achieving with  
12 over eight hundred (800) employees leaving under a  
13 voluntary departure program by January 31, 2018. As  
14 part of an executive reorganization in 2017, we  
15 reduced executive management by 30 percent and the  
16 next two (2) layers of senior management by 25  
17 percent.

18                   Our new plan is targeted at restoring  
19 Manitoba Hydro's financial strength and sustainability  
20 over the next ten (10) years. That time-frame was  
21 chosen to address the urgent need to address Manitoba  
22 Hydro's serious financial state within a reasonable  
23 time horizon, while balancing both near-term and  
24 longer-term rate implications for our customers.

25                   We look forward to this hearing and the

1 opportunity to explain in detail our financial plan,  
2 including the necessity of these rate increases.

3                   Slide 7. Given we have some new board  
4 members, but also as a refresher for everyone, we  
5 thought we should provide a high-level overview of  
6 Manitoba Hydro's operations.

7                   Manitoba Hydro has, at September 30 of  
8 this year, just under \$24 billion of total assets.  
9 Bear in mind our assets are measured at historical  
10 cost and our net of depreciation recorded against  
11 them. The full replacement value of our system would  
12 be many, many multiples of 24 billion.

13                   We generate approximately \$1.4 billion  
14 in electric revenues, serving five hundred and  
15 seventy-three thousand (573,000) residential and  
16 general service electric customers. Thanks in part to  
17 near record water flows, last year we generated just  
18 under half of a billion dollars in revenues from the  
19 export of electricity, which directly serves to keep  
20 rates down for Manitobans. Including our natural gas  
21 business, we had 2.3 billion of revenue in total, but  
22 made net income of only \$71 million, of which almost  
23 30 percent came from a one (1) time gain on a sale of  
24 surplus land.

25                   A theme that will come up often in this

1 hearing is our views on the inadequacy of roughly \$50  
2 million of net income, just over 30 million in the  
3 electric segment. In comparison to the size of our  
4 assets, the ongoing maintenance and replacement needs  
5 of those assets, the breadth of our operations, and  
6 perhaps most importantly, the quantum of our debt  
7 which now stands at \$18 billion.

8           When you operate a business this large  
9 asset intensive and indebted, 30 million in annual  
10 profit is inadequate to properly support this  
11 business. As we will outline in this hearing, having  
12 very modest annual net income, we are required to  
13 borrow significant amounts of cash; better described  
14 as running a deficit each year in order to fund  
15 ongoing operations.

16           As of the end of October, we had just  
17 under six thousand (6,000) employees, and that number  
18 will decline to under fifty-four hundred (5,400) as we  
19 complete our voluntary departure program early in the  
20 new year. That's down from around sixty-two hundred  
21 (6,200) employees as of April 2017.

22           I want to take a moment to acknowledge  
23 the hard-working, dedicated, proud and capable team of  
24 Manitoba Hydro employees we have out -- throughout  
25 Manitoba, serving our customers to the best of their

1 abilities. I'm proud to lead this team who work so  
2 hard every day to support Manitobans.

3                   We worked hard over many years to  
4 ensure we have a diverse workforce. And today, nearly  
5 one (1) in five (5) of our employees self-identifies  
6 as indigenous. If you look at the staffing complement  
7 helping build Keeyask and Bipole III, you will find  
8 these projects have been a contribute -- tremendous  
9 contributor to employment opportunities in First  
10 Nation communities and, indeed, for all Manitobans.  
11 Well over 40 percent of employment to-date on Keeyask  
12 has been from indigenous employees.

13                   In August of this year, I was pleased  
14 to celebrate at the construction site, together with  
15 our Keeyask Cree Nation partners over 4 million person  
16 hours of indigenous labour on Keeyask, with 2 million  
17 of those hours worked by members of our Keeyask Cree  
18 Nation partners.

19                   Slide 8. A little more on our electric  
20 assets. We operate fifteen (15) hydroelectric  
21 generating stations, and 99 percent of our electric  
22 energy is from clean, renewable sources. We have two  
23 (2) gas plants and one (1) coal plant. The coal plant  
24 is slated to be taking out of generating service next  
25 year, which are backup facilities and used to provide

1 reliability support.

2                   The majority of our power is generated  
3 by three big hydroelectric stations on the Nelson  
4 River, Limestone, Kettle, and Long Spruce, and brought  
5 south on our two (2) high-voltage direct current  
6 transmission lines, Bipoles I and II, that run side-  
7 by-each through the Interlake, and both terminate on  
8 our Dorsey converter station just outside of Winnipeg.  
9 We move all of this energy around the province to our  
10 customers, as well as to export markets through over  
11 18,000 kilometres of higher voltage transmission  
12 lines, and over 68,000 kilometres of lower voltage,  
13 overhead, and underground distribution lines.

14                   A word on our -- on the age of our  
15 assets because it's a critical issue that needs to be  
16 accommodated in our financial plan. The bulk of our  
17 generating fleet was commissioned in the 1970s or  
18 before. Our Winnipeg river plants were built between  
19 1910 and 1955. Our last major new development was  
20 Limestone which came on stream almost thirty (30)  
21 years ago. Our two (2) Bipole transmission lines were  
22 built over forty (40) years ago, and some key  
23 components are nearing end-of-life.

24                   On the distribution side, huge swaths  
25 of our assets date back to 1950s and 60s and rural

1 electrification. Here in Winnipeg, significant  
2 distribution assets that belong to Winnipeg Hydro were  
3 installed in and around World War II during a period  
4 of rapid transition for the city -- rapid expansion,  
5 pardon me, for the city. We required Winnipeg Hydro  
6 in 2002 and need to make significant investments to  
7 address failing infrastructure. All to say we have a  
8 substantial network, with long-lived assets that are  
9 increasingly reaching later stages of useful lives,  
10 along with also needing regular investment to increase  
11 the capacity and capability of our system to serve  
12 evolving customer needs.

13                   Why is this important? Well, there are  
14 a few issues. A few reasons. The cost of being in  
15 electricity business has increased substantially even  
16 after adjusting for inflation. But our revenue  
17 requirement is determined by depreciation expense  
18 which is based on historical cost of assets built  
19 one(1) or two (2) generations or more ago. Simply  
20 put, what we are recovering in rates does not come  
21 close to what we need to spend to maintain and renew  
22 our aging system. As time passes and our  
23 infrastructure gets older, this will become more  
24 critical. Utilities throughout North America are  
25 grappling with this issue, and Manitoba Hydro is no

1 different.

2                   It's very important we address our  
3 balance sheet deficiencies in the near-term, so we are  
4 in a better position to meet the longer-term capital  
5 needs of our system, while contributing -- or while  
6 continuing to meet the reliability standards are  
7 regulators require and customers demand.

8                   Slide 9. A breakdown of our revenue in  
9 the electric segment shows \$1.4 billion a roughly 75  
10 percent comes from Manitoba customers with the rest  
11 from exports. Within Manitoba residential customers  
12 are our largest segment at 41 percent of revenue,  
13 followed by commercial customers at roughly 35  
14 percent, with our industrial customers being the  
15 balance.

16                   Slide 10. On our cost structure -- and  
17 this is based on our last completed fiscal year -- I'd  
18 like to make a few points. We are a capital intensive  
19 business. The size of our assets is really what  
20 drives our operating costs. Together with interest  
21 expense, which is driven by debt incurred to fund  
22 asset investment, depreciation of our assets and  
23 capital taxes drive over 60 percent of the current  
24 cost structure. That will go up complete Bipole III  
25 and Keeyask and bring almost another \$1 billion of

1 depreciation and interest expense onto our books over  
2 the next few years.

3                   Notably, operating and administrative  
4 expenses, or O&A, represent the only costs I would  
5 regard as controllable, at least in the shorter term,  
6 and are under 30 percent of our cost structure. While  
7 we continue to focus on operating cost reduction and  
8 are taking more -- even more action on that front, our  
9 O&A costs are heading to be coming even less  
10 significant, more like 15 percent of the cost  
11 structure, once these big new capital assets come into  
12 service.

13                   Slide 11. We continue to deliver safe  
14 and reliable services for customers, as highlighted by  
15 these two (2) standard measures used by the industry.  
16 For these metrics, a lower result is better. And as  
17 you can see, we compare favourably to our Canadian  
18 peers with fairly consistent top quartile performance.

19                   While past and current performance is  
20 good, I should add a few words of caution. You can  
21 see, we are trending somewhat downward. These charts  
22 also combine our rural and urban performance, and the  
23 results do vary across those segments. In Winnipeg,  
24 we are now a third quartile performer on reliability  
25 scores. As our urban assets age, we will need to work



1 hard to keep coming up with creative solutions and  
2 investing to keep our service where Manitobans need it  
3 to be.

4                   Slide 12. Finally, we just wanted to  
5 put our customer rates and rate increase request into  
6 a bit of perspective. On the residential side,  
7 Manitoba customers enjoy the second lowest rates in  
8 the country, and should the proposed rate increase for  
9 April 1, 2018 be approved, that will continue to be  
10 the case. I think it's important to note that,  
11 broadly speaking, electricity costs are going up at  
12 rates higher than inflation as utilities throughout  
13 North America grapple with changing demand patterns,  
14 higher regulatory costs, aging infrastructure, and for  
15 many, the transition from carbon generating sources to  
16 renewables.

17                   Slide 13. On the high consumption  
18 side, you can see that a sample industrial customer  
19 will continue to enjoy the lowest rates in the  
20 country, even after the proposed rate increase. In  
21 both residential and industrial rates, you can see  
22 that, except in Quebec, Manitoba Hydro rates have  
23 considerable room to grow before we would become even  
24 an average jurisdiction.

25                   I recognize that what people pay for

1 electricity in -- in other places is not all that  
2 relevant to people who have chosen to build their  
3 lives and businesses here. But it is relevant to  
4 questions of our competitiveness as a province.

5           The future path of rate increases in  
6 other places is hard to know. But if you look around  
7 at the issues including decarbonization, major  
8 projects, and modernization of infrastructure, which  
9 others are dealing with, I'm hard-pressed to see very  
10 many places where inflationary rate increases are  
11 likely to be the norm.

12           So looking further out, we're pretty  
13 confident that in -- this -- in spite of the path of  
14 rate increases we are proposing, that we will remain  
15 among the lowest energy rates, and with the potential,  
16 once we stabilized out financial situation, to improve  
17 from there.

18           Slide 14. Changing gears just a bit, I  
19 thought I would briefly outline the -- the four (4)  
20 current strategic priorities of Manitoba Hydro. Our  
21 mission is creating value for Manitobans by meeting  
22 customers expectations for safe, reliable energy  
23 services at a fair price. Our four (4) strategic  
24 priorities are restoring financial sustainability,  
25 delivering an excellent customer experience, engaging

1 employees in our transformation, respect and support  
2 for indigenous peoples in all aspects of our business.

3           The first priority, restoring financial  
4 sustainability, includes actions to put the company on  
5 track to achieve a 75:25 debt-equity ratio within a  
6 ten (10) year horizon; address the current deficit in  
7 operating cash flow; improve our financial capacity to  
8 manage known and potential operating risks over the  
9 next several years. This priority requires pursuing a  
10 balanced approach of cost reductions and efficiency  
11 improvement, together with seeking appropriate domestic  
12 revenue increases and pursuing new export revenues.

13           Our second priority, in terms of  
14 delivering excellent customer experience, means  
15 focusing on the end-to-end customer experience;  
16 meeting customer expectations on what we deliver,  
17 while striving to exceed expectations on how we  
18 deliver; building a service experience around our next  
19 generation of customers, this is what I would refer to  
20 as a looking forward strategy; managing the customer  
21 experience, in addition to what we already do in  
22 managing operational service metrics.

23           We're going through a tremendous amount  
24 of change, and it's critical that we engage employees  
25 in that transformation and change effort. In

1 practical terms, that means corporate direction,  
2 strategy, overall goals will be established by the  
3 Board and the senior executive. Managers will work  
4 with their teams to implement and manage  
5 transformation initiatives. And employee input and  
6 active participation is a key success factor and will  
7 be actively sought and listened to by all levels of  
8 management.

9                   Our final strategic imperative, one (1)  
10 that, in my view, is extremely important is respect  
11 and support for indigenous people in all aspects of  
12 our business. What this means is that we will engage  
13 in respectful dialogue and negotiation with  
14 communities who have concerns with past, present, and  
15 future Manitoba Hydro operations and projects; ensure  
16 that we respect existing agreements with indigenous  
17 peoples; create an internal environment within  
18 Manitoba Hydro that respects and supports indigenous  
19 employees and their culture; and we'll look to evolve  
20 a relationship with indigenous people in a positive  
21 and proactive manner and continue to be a leader in  
22 indigenous relations.

23                   In addition to these strategic  
24 priorities, we have identified a foundation of core  
25 principles which we will continue to focus on.

1 Safety, being our top value and a priority which we  
2 absolutely will not compromise.

3 Jamie...?

4 THE VICE-CHAIRPERSON: Mr. Shepherd,  
5 just before you move on, could I just ask you a  
6 question?

7 You said at the beginning of your  
8 presentation that you see no path that does not add to  
9 debt. Can you clarify for me, this -- are you  
10 speaking of the projects that are currently underway  
11 in the operation of Manitoba Hydro, or are there  
12 additional projects that you're looking at that would  
13 add to the debt?

14 MR. KELVIN SHEPHERD: No, I'm speaking  
15 to projects that are on the books, are currently  
16 committed and need to be funded over the next several  
17 years. But I'm not talking about any significant new  
18 projects or any proposed increase in sustainment or  
19 other operating costs.

20 THE VICE-CHAIRPERSON: And the other -  
21 - another thing you said is the comparisons you made  
22 for industrial customers to other jurisdictions in  
23 Canada. I'm assuming that you've done similar  
24 comparisons to North American jurisdictions, and is  
25 there anything there that would jump out for us?

1                   MR. KELVIN SHEPHERD:    Yes, we have  
2 looked across North America and -- and there are some  
3 jurisdictions that would have rates -- in the United  
4 States, pardon me -- that would have rates similar to  
5 ours, there are many that have rates higher than ours.  
6 So I would say we would still be considered, at this  
7 point, as having in the -- the lower end of rates for  
8 those customers anywhere in North America.

9                   MR. JAMES MCCALLUM:    Thank you, Mr.  
10 Shepherd.  Good afternoon, Mr. Chairman, Madam Vice-  
11 Chair, Board members, Board advisors, Intervenors, and  
12 our audience.

13                   I'm on slide 16 now.  Mr. Shepherd  
14 spoke earlier about how our old financial plans just  
15 don't work for the circumstances we find ourselves in  
16 today.  We'll add some more detail to show why this  
17 is.  But talking about what our new plan had to  
18 address is an essential starting point to frame the  
19 discussion that follows on why our new plan is the  
20 right path forward.

21                   So here's what we found when we started  
22 looking at our financial plan.

23                   First, we've had a huge erosion in our  
24 outlook for major drivers of our business, as compared  
25 to the last few financial forecasts reviewed before

1 this Board. We will explain that further shortly.

2                   We can and do quantify the  
3 deterioration in our revenue, earnings, debt, and cash  
4 flow expectations. But as damaging as the dollars  
5 that have disappeared are, which are hugely impactful,  
6 it is also the significantly diminished growth  
7 expectations that fundamentally shape our point of  
8 view on risk and risk tolerance. Simply put, we are  
9 not growing and that change in outlook changes  
10 everything. All of our plans to date had, in my view,  
11 too much debt.

12                   Our forecast debt levels have increased  
13 from too high to extreme. And now we have lost the  
14 prospect of, at least, on a relative basis, growing  
15 into that debt, and therefore our ability to manage  
16 and sustain that debt has gone way down and we must  
17 act accordingly.

18                   Even more urgently, when you consider  
19 all the costs Manitoba Hydro must absorb to run its  
20 business each day, and we'll show this, you discover  
21 that today's rates are not at the right level.  
22 Today's rates do not fund the full costs of running  
23 our business today. Ms. Ramage described it in terms  
24 of using a line of credit to pay off your credit card.  
25 We are borrowing money each year just to meet the

1 interest and operating requirements, obligations, of  
2 the current business, and even before we consider the  
3 current and future impacts of the two (2) major  
4 capital projects.

5           The 3.95 percent rate path that has  
6 been in place for a number of years, thus -- just  
7 doesn't work anymore. Left in place, it would leave  
8 Manitoba Hydro with cumulative net losses until 2032,  
9 and that's if nothing goes wrong. And we would be  
10 borrowing over \$1 billion over the next decade just to  
11 fund our day-to-day operations.

12           We would be passing through the next  
13 decade, a time when we expect to be increasingly  
14 needing to address aging infrastructure and a  
15 continually changing utility industry with a fragile  
16 balance sheet and no margin for error. A plan like  
17 that almost assures a potentially decades-long march  
18 of rate increases above inflation at a much higher  
19 risk of rate instability. We had to find another way.

20           Slide 17. This slide is a picture of  
21 our income and expenses today, versus in 2030 --  
22 2023/24, six (6) years from now. The relevance of  
23 2024 is that at that point Manitoba Hydro is in much  
24 more of a steady state than you'd -- than we'd be  
25 today. Keeyask is fully in service. Bipole three has



1 been in service for about four (4) years. At that  
2 point, this big bulge of additional interest charges  
3 and depreciation expense associated with the Keeyask  
4 and Bipole III projects that we've been talking about  
5 here for a while, will be fully visible in our income  
6 statement, and the result is concerning.

7                   Today, as you know, we are roughly  
8 break-even on net -- net income. We anticip --  
9 anticipate about \$30 million of net income for 2018,  
10 fiscal 2018, based on our year-to-date results and  
11 current water conditions. The -- it's a little mild  
12 today and over the weekend. The weather heading into  
13 our -- our fourth quarter could move us either way to  
14 the tune of 20 or \$30 million.

15                   But by 2024, without any rate  
16 increases, we will flip to a \$700 million loss per  
17 year. And that's assuming again that all goes to  
18 plan, particularly that interest rates have stayed on  
19 their relatively low track and that export prices have  
20 appreciated, which they haven't done really for many  
21 years.

22                   We are already off this track of export  
23 prices by 10 to 20 percent this year, compared to  
24 forecast. The prices we're realizing in the  
25 opportunity market this year are 10 to 20 percent

1 below what's in our forecast. A \$700 million gap  
2 means rates are about 43 percent too low. A 3.95  
3 percent path fills about two-thirds (2/3) of this gap.  
4 But \$300 million is still a huge annual hole.

5                   Moreover -- and this is something  
6 you'll hear us say often -- as a planning matter, we  
7 don't believe you can target nil or breakeven net  
8 income for a businesses as large, complex, asset  
9 intensive, volatile, and indebted as ours. We have to  
10 plan, inclusive of in our rate strategy, for a cushion  
11 that allows for a margin of error and to create  
12 reserves in the form of paying down debt when things  
13 go right.

14                   Slide 18, please. This slide is likely  
15 familiar to Intervenors and advisors and board members  
16 from past hearings. The columns represent our costs  
17 from 2018 through 2027. The dark dotted line is our  
18 domestic revenue at today's rates. The solid line is  
19 our domestic revenue at today's rates, plus our export  
20 revenues.

21                   You can see that in 2021, '22, and '23,  
22 there is a step up in those revenues as new export  
23 contracts come into effect and Keeyask comes into  
24 service, supporting both those contracts and higher  
25 opportunity sales. But what you can also see in the

1 bars is that costs are increasing dramatically, and  
2 without rate increases, we have a huge gap building  
3 between our revenues and our costs. This is the same  
4 picture as we showed for 2023/'24 on the page before.

5                   Finally, at the top, you see a red  
6 dotted line. That's our total revenue, including  
7 exports, if we follow the 3.95 percent rate path. The  
8 scale of the graph somewhat obscures it, but you can  
9 see that for the next few years, we continue with  
10 minimal net income but then start to generate sizable  
11 losses. Those losses total \$400 million over the next  
12 decade. The graph doesn't extend that far, but it  
13 takes until 2032, fifteen (15) years, before the red  
14 dotted line inches above the bars enough that we have  
15 cumulative net income.

16                   Page 19; slide 19. But we aren't just  
17 trying to address income. Income is important, but we  
18 also have to really care about cash flow and how much  
19 cash we are generating or using to run our business  
20 each year. Here we have a huge problem. If you think  
21 back to Tab 2 of our application in May, we spent a  
22 bunch of effort making clear that we have a big cash  
23 flow problem. It's interesting that on the one hand,  
24 the Consumers Coalition has labelled our focus on cash  
25 flow, A radical re-imagining. Meanwhile, Morrison

1 Park Associates, engaged by the Coalition and MIPUG,  
2 concludes cash flow is really important, but we don't  
3 pay enough attention to it.

4                   Well, we do think it's important. We  
5 are clearly paying attention to it. And the funny  
6 thing about cash flow is that it really isn't all that  
7 susceptible to radical re-imagining. There's no  
8 accounting policy with cash. It's either there or it  
9 isn't. I spent almost my entire professional life  
10 evaluating companies, their strategy, how they make  
11 money, how they're financed, what they're worth. On  
12 day one of my career, somebody told me, If you ever  
13 want to know something about company -- a company,  
14 follow the cash. So this table follows the cash.

15                   We start with our receipts from  
16 customers, domestic and import. That's the top line.  
17 Then we take away all our payments to suppliers and  
18 employees to operate the business each year. There's  
19 no capital expenditures here just yet. Then we look  
20 at the interest paid in cash on our debt, again, just  
21 associated with the business and not the major  
22 projects, where although we are paying out hundreds of  
23 millions of dollars now each year in interest, we  
24 don't, in this analysis, consider that an ongoing  
25 burden on the business because the assets are not yet

1 in service.

2                   Then we get what we call our business  
3 operations capital expenditures. These are all the  
4 costs we pay each year to maintain, replace and  
5 enhance the system to make sure we keep meeting our  
6 mandate. Next is demand-side management, another  
7 regular expenditure. Then there are the payments we  
8 make each year for mitigation and other deferred  
9 expenditures, and finally the overhead costs this  
10 Board has directed not to be charged to income but are  
11 nonetheless cash expenditures we must make.

12                   That brings us to our first subtotal,  
13 where you'll see in the last two (2) years, we have  
14 had a pretty substantial cash loss, and it forecasts  
15 to be marginally positive in the year just about to  
16 end in March, but there's more. We have a whole host  
17 of payments we make on account of commitments we have  
18 made that sit as liabilities on our balance sheet,  
19 things like mitigation agreements, major development  
20 agreements we have entered into, to adju -- address  
21 past and present development.

22                   These are commitments that last many,  
23 many years more, and in some cases, into perpetuity.  
24 We continue to write a \$16 million check each year, in  
25 perpetuity, to the city of Winnipeg as part of the

1 acquisition of Winnipeg Hydro fifteen (15) years ago.  
2 These things don't flow through our net income to any  
3 great extent, but they sure are cash, and they are  
4 material. When you add that to the cash needs of the  
5 business, the situation worsens further.

6           Finally, we think there are a few more  
7 things you need to take into consideration sitting  
8 here in December of 2017 to get the most accurate  
9 picture of what your cash flow deficiency is. The  
10 first is on account of Bipole III. The interest paid  
11 line up above excludes all the interest on Bipole III,  
12 which we capitalized to our balance sheet per the  
13 accounting standard. But fundamentally, Bipole III is  
14 a reliability asset that supports the current system.

15           Save for, really, an immaterial amount  
16 of additional export revenue from reduced line losses,  
17 we don't generate new revenues when Bipole III comes  
18 into service, but its costs, as we know, are  
19 significant. Moreover, Bipole III enter service  
20 imminently. We expect to have it online next summer.  
21 As far away as summer always feels like when you're in  
22 December, in our business, it's not a lot of time. So  
23 we think that even though the accounting rules tell  
24 you to capitalize interest costs you're paying, if you  
25 want to think about the burdens on your business and

1 what they really are, and whether your revenues are  
2 sufficient, then in these circumstances, you best be  
3 looking at the interest on Bipole III as well.

4           And finally, as it comes to  
5 sufficiency, you need to think about whether your  
6 revenues are repeatable. There we note that in each  
7 of the last two (2) years -- actually, the last  
8 thirteen (13) years -- and at least in our forecast  
9 for this year, we have earned substantial revenues  
10 from above-average water conditions. As a planning  
11 matter, we simply can't assume that that repeats in  
12 any analysis of our steady-state cash flow.

13           Adding all of that up, you'll find that  
14 of late, we've been consuming between 300 and \$400  
15 million a year simply carrying out the regular  
16 operation and meeting the normal obligations of the  
17 business. Our domestic revenues are in the order of  
18 1.5 billion. So put another way, our current rates  
19 are falling roughly 20 percent short of paying the  
20 full costs of operating and maintaining the system in  
21 the normal course.

22           Slide 20, please. Turning to our debt,  
23 this slide should give us all pause. We have said a  
24 few times that our debt is growing out of all  
25 historical proportion to the size of our business.

1 Here's what we mean. This chart demonstrates our debt  
2 per kit -- gigawatt hour of domestic load or  
3 consumption, going back to 1990. In 1990, we had just  
4 over two hundred thousand dollars of debt per gigawatt  
5 hour of annual domestic load.

6           As you can see, we kept things  
7 reasonably steady for a while, but then around 2008,  
8 started really marching up. Things really take off  
9 over the last couple of years as Keeyask and Bipole  
10 III get rolling. But look where we go. We eventually  
11 climbed to over \$1.1 million per gigawatt hour, and we  
12 stay there under the 3.95 percent rate path, which is  
13 what this shows.

14           So relative to the size of our  
15 business, we are building to being roughly four (4)  
16 times as indebted as we were immediately following  
17 Limestone. We've added on here for interest where the  
18 other Canadian Crown Hydro utilities are currently,  
19 and you can see that we are already much higher and  
20 will be multiples of their levels of relative  
21 indebtedness as well.

22           Why do I compare it to domestic load?  
23 Because that's who underwrites the liability of our  
24 debt, meaning that's who pays if interest rates go up.  
25 Every dollar of unplanned interest rate cost is going



1 to come back on the domestic ratepayer, and so  
2 understanding how much leverage is being stacked on  
3 our customers is vital to appreciating how vulnerable  
4 the situation is.

5                   Next slide, please, slide 21. This  
6 chart is a similar story. Patti touched on this  
7 earlier in her remarks. This looks at our interest  
8 costs per dollar of domestic revenue. The dark blue  
9 line at the bottom looks at finance expense. That's  
10 what flows through our income statement. The top line  
11 is overall cash interest, whether it is capitalized or  
12 not.

13                   Once the major projects conclude and  
14 all of our interest flows through our income  
15 statement, the lines intersect. What we are seeing is  
16 a significant increase, even with the 3.95 percent  
17 path of the proportion of each revenue dollar that  
18 must go to interest.

19                   Remember, this is where interest rate  
20 volatility hits, so we are heading to having 60 or 65  
21 percent of each domestic revenue dollar go to pay  
22 interest costs. The other 35 percent, together with  
23 the export revenues, go to actually run the business  
24 and maintain the assets. It just isn't a lot of  
25 wiggle room. Interest rates don't need to rise very

1 far before we have a big issue. Slide 22.

2 MR. KELVIN SHEPHERD: Thanks, Jamie.  
3 We had to develop a new plan. Working together with  
4 the Manitoba Hydro Electric Board, we developed a ten  
5 (10) year plan to restore Manitoba Hydro's financial  
6 sustainability and achieve key financial goals and  
7 metrics. I recognize there's a significant change  
8 from previous plans presented by previous Hydro --  
9 Manitoba Hydro management. Those plans were also  
10 directed by and approved by previous Manitoba Hydro  
11 boards, plans that would have taken eighteen (18),  
12 nineteen (19), twenty (20) or more years to restore  
13 Manitoba Hydro's financial health. I want to address  
14 this change because it's important.

15 The reality about these prev --  
16 previous twenty (20) year plans is as follows. A key  
17 constraint imposed on these plans was to keep rate  
18 increases below 4 percent, even if that required the  
19 financial strength of Manitoba Hydro to be materially  
20 compromised. In all cases, a 3.95 percent rate path  
21 requires that for the first ten (10) or more years,  
22 you accept extremely low or even negative net income  
23 and cash flow. So you're spending a decade or more  
24 without making any progress whatsoever in addressing  
25 an acute vulnerability to a range of business risks.

1           A decade is a long time. In any  
2 business I've been around, forecasting ten (10) years  
3 in the future, let alone fifteen (15) or twenty (20),  
4 is very difficult, perhaps nearly impossible. So a  
5 plan that has you walking down a tightrope of  
6 essentially no net income until the early 2030s is  
7 begging for trouble, especially when your outlook for  
8 growth is as weak as ours has become. So in taking up  
9 to twenty (20) years to deal with a serious problem,  
10 you're choosing to take insufficient action upfront,  
11 action that is required to be in the position where  
12 you have some flexibility to make different choices as  
13 the future unfolds.

14           Our previous plans relied to -- to far  
15 too great an extent on nothing adverse happening over  
16 a very long period of time. That's relying on hope.  
17 Put another way, your financial strategy is to stay  
18 lucky for a very long time.

19           The second issue is, it becomes a fair  
20 question as to whether you are ever going to deal with  
21 the debt problem outside of a crisis having set in.  
22 If by chance, after twelve (12) years and having  
23 increased rates every year by 3.95 percent,  
24 cumulatively by over 60 percent, nothing bad has  
25 happened, there will be a continued temptation to keep

1 putting off dealing with the acute risks of the debt,  
2 which will still be there even after all those years  
3 of rate increases.

4 THE CHAIRPERSON: Sorry, can I  
5 interrupt, Mr. Shepherd?

6 MR. KELVIN SHEPHERD: Yes.

7 THE CHAIRPERSON: You -- you said that  
8 there -- the key constraint was to keep rates below 4  
9 percent. Was there a Board policy saying that rates  
10 were to be below -- would not be higher than 4  
11 percent?

12 MR. KELVIN SHEPHERD: So I wasn't here  
13 when -- when those decisions were made, Mr. Chair, but  
14 I can tell you I did have those discussions when I  
15 first came to Manitoba Hydro with some members of the  
16 board, and it was made very clear to me that rate  
17 increases above 4 percent would not be contemplated by  
18 the board.

19 And so I don't know if that was a -- I  
20 wouldn't say there was a policy, but I would say  
21 certainly from the board's perspective, there was a  
22 constraint which they were not willing to go above in  
23 terms of the rate requests they were asking for.

24 THE CHAIRPERSON: But from your  
25 testimony, it sounds like -- excuse me -- the primary

1 consideration was the rate increase rather than sort  
2 of the good financial practices or a proper financial  
3 outlook.

4 MR. KELVIN SHEPHERD: The -- the rate  
5 increase was a constraint imposed upon the financial  
6 plan, and that definitely was a higher priority than  
7 other aspects of the plan, yes.

8 THE CHAIRPERSON: Thank you.

9 MR. KELVIN SHEPHERD: In the Board  
10 counsel's book of documents, there's an interesting  
11 chart, page 147. It isn't Hydro's chart, but it  
12 highlights the year that our minimum equity target of  
13 25 percent is met, and each successive financial plan.

14 It clearly shows that with each passing  
15 financial plan presented by Manitoba Hydro, the date  
16 at which we meet our target moves further and further  
17 out. We need to stop doing this, especially now that  
18 our outlook for the business has deteriorated and the  
19 risks and uncertainty in the electric power business  
20 continue to increase. A twenty (20) year plan simply  
21 does not work anymore.

22 We will shortly talk about the outlook  
23 for our business, however, a key point is that our old  
24 plans had all the expectation of continued growth as  
25 an underpinning, growth and load, and growth in export

1 pricing. However, consecutive years of actual results  
2 and each subsequent updated forecast have shown that  
3 to be far too optimistic.

4           I think a twenty (20) year plan is far  
5 too risky in any event, but at least if you think  
6 you're going to grow, you have some support for a  
7 period of inadequate financial strength. I don't  
8 believe we have that luxury anymore. In short,  
9 bluntly speaking, this old plan has failed. All of  
10 the shortcomings of a twenty (20) year plan are  
11 readily apparent in the deterioration of our business  
12 outlook. Revenue growth has been elusive, and our  
13 capital needs are much greater than anticipated.

14           If we could go back in time over five  
15 (5), ten (10), or even fifteen (15) years with the  
16 benefit of hindsight, we now know that we needed to  
17 have increased rates more and done so more proactively  
18 and earlier to build a stronger balance sheet before  
19 taking on these major capital projects so as to avoid  
20 the need for a higher level of rate increases today  
21 and going forward.

22           We obviously can't go back in time, but  
23 we can stop compounding the situation by no longer  
24 putting off what needs to be done and by not relying  
25 on overly optimistic forecasts or arbitrary regulatory

1 accounting choices to give everyone a false sense of  
2 security.

3                   So our new plan has the following  
4 features: We have substantially accelerated our cost  
5 reduction program to do everything we can to mitigate  
6 rate impacts and run our business more efficiently.  
7 We have accelerated rate increases into a shorter  
8 period of time. This is really important to  
9 understand. Whether we take ten (10) years or twenty  
10 (20) years to address our financial state, rates have  
11 to increase substantially. We can't avoid the  
12 destination. At issue is how fast to get there.

13                   In fact, our proposed path can lead to  
14 lower rates, and certainly more stable rates in the  
15 long run, and that's a better destination. Our plan  
16 has us creating positive cash flow, meaning more cash  
17 comes in than goes out to run the business. That lets  
18 us take on less debt and then pay off a modest amount  
19 of debt after Keeyask starts up.

20                   The outcome, which we think is in  
21 everyone's interest is that by reducing debt, we can  
22 change the trajectory of future rate increases. Debt  
23 we don't have is interest payments we don't have to  
24 make, which, in turn, is revenue we don't have to seek  
25 from our customers. By proactively reducing the

1 amount of debt incurred, we can ensure no matter what  
2 the future holds that rates will be more stable and  
3 relatively lower in the long run than if we take  
4 twenty (20) years to address the simple fact that we  
5 have too much debt.

6           Slide 23. We have and will continue to  
7 attack our costs. Over the last three (3) years, we  
8 have reduced our operational positions by over four  
9 hundred (400). Over the next three (3) years, we will  
10 further reduce headcount by nine hundred (900)  
11 positions. We have taken huge steps already. Earlier  
12 this year, I took steps to reorganize and streamline  
13 our company, reducing my immediate executive team by  
14 30 percent. We reduced our overall senior management  
15 team by 25 percent, and by the end of January, over  
16 eight hundred (800) employees will have left via a  
17 very successful voluntary departure program which we  
18 executed.

19           We're continuing to implement multiyear  
20 initiatives in our supply chain, where we expect to be  
21 able to drive up the 50 million a year out of our  
22 annual spending via strategic sourcing and improved  
23 purchasing practices. Over my career, I've had a lot  
24 of experience successfully designing and implementing  
25 cost restructuring programs. I can tell you that if I



1 thought we could do more aggressive staff reductions  
2 in a shorter period of time, we would be doing more.

3                   With these changes, we have a lot of  
4 work to do to transform our company so that we can  
5 continue to operate safely and provide reliable  
6 service with 15 percent fewer people. I'm confident  
7 we have the plans and leadership in place to make it  
8 happen, but not to be missed is that we have taken  
9 major steps, perhaps even unprecedented steps for  
10 Manitoba Hydro, to aggressively reduce our cost  
11 structure. That such dramatic cost reduction steps on  
12 their own can't address our financial challenges is  
13 indicative of the seriousness of the revenue capital,  
14 and debt challenges we face.

15                   In short, I don't believe we have a  
16 fundamental operating problem. We have a capital  
17 structure problem created by a massive capital  
18 expenditure -- expansion funded entirely by debt,  
19 which is not supported by our current rates.

20                   Slide 24. Turning to rates, I wanted  
21 to discuss the interim rate --

22                   THE CHAIRPERSON:    Sorry, we have a --  
23 we have a question from --

24                   MR. KELVIN SHEPHERD:    Pardon me.

25                   THE CHAIRPERSON:    -- Ms. McKay.

1                   BOARD MEMBER MCKAY:    Just a quick  
2 question.  You use percentages on reduction in  
3 executive and reduction in management, so is that just  
4 a simple subtraction, nine hundred (900) minus the  
5 eight hundred and twenty-one (821) positions to  
6 determine those two (2) percentages?

7                   MR. KELVIN SHEPHERD:    The 15 percent,  
8 if you look at nine hundred (900) positions over the  
9 sixty-two hundred (6,200) positions that we had in  
10 April of this year, is approximately a 15 percent  
11 reduction.  Through our voluntary departure program,  
12 close to eight hundred and -- and twenty -- twenty-one  
13 (821) positions will be eliminated.  The vast majority  
14 of those by the end of January and over the next  
15 couple of years.  Through attrition and some other  
16 measures, we would expect to achieve the full nine  
17 hundred (900) reduction.  So nine hundred (900) out of  
18 sixty-two hundred (6,200) is -- is where the 15  
19 percent figure comes from.

20                   BOARD MEMBER MCKAY:    The 30 percent  
21 reduction in executive, how many positions is that,  
22 then?

23                   MR. KELVIN SHEPHERD:    There were ten  
24 (10) -- ten (10) executive positions, and we reduced  
25 three (3).

1 BOARD MEMBER MCKAY: And 25 percent in  
2 management, roughly how many?

3 MR. KELVIN SHEPHERD: You know, I  
4 would -- I would have to go check and get the actual  
5 number, unless, Jamie, you know it off-hand.

6 MR. JAMES MCCALLUM: It's subject to  
7 check. It would be in the range of forty (40).

8 BOARD MEMBER MCKAY: Thank you.

9 MR. JAMES MCCALLUM: And -- pardon me.  
10 And of that forty (40), some would be included in that  
11 eight hundred and twenty-one (821) number that -- that  
12 Kelvin -- Mr. Shepherd referenced as part of our  
13 voluntary departure program. We did have members of  
14 the management team put up their hand for that  
15 program, and we were able to, you know, move their  
16 workload around and not -- not fill that position.

17 BOARD MEMBER MCKAY: Thank you.

18 MR. KELVIN SHEPHERD: So I think I'm  
19 on page -- slide 24. So I -- I do want to discuss the  
20 interim rate awarded August 1st, 2017, and our request  
21 for a further increase on April 1st, 2018.

22 As you -- as you'll recall, we had  
23 initially requested a 7.9 percent rate increase for  
24 each of 2017 and 2018, assuming those to an initial  
25 two (2) years of 7.9 percent increases, we then

1 projected a need for three (3) more years of 7.9  
2 percent thereafter, followed by a return to roughly  
3 inflat -- inflationary levels of increases.

4           Order 80/'17 provided a 3.36 percent  
5 rate increase at August 1st, 2017. You know, the  
6 mathematical's -- mathematics of compounding are  
7 pretty brutal when the numbers are so large. The 3.36  
8 percent interim rate increase had the consequence of  
9 pushing out the achievement of our ten (10) year plan  
10 to fourteen (14) or fifteen (15) years. We are  
11 committed to a ten (10) year plan based on our current  
12 forecast for the business. Therefore, in order to  
13 maintain our goal of reaching a 25 percent equity  
14 capitalization by 2027, two (2) additional years of  
15 7.9 percent increases are not required, followed by a  
16 4.54 percent the year after that. The return to  
17 inflationary increases is delayed from year six (6) to  
18 year nine (9).

19           Taken over ten (10) years, the impact  
20 of the interim order is to create an overall aggregate  
21 rate increase of 77 percent, up from the 61 percent  
22 under the five (5) year 7.9 percent plan, just to  
23 achieve the same outcome. This is an excellent  
24 example of why it's so important to take purposeful  
25 steps now instead of waiting. Delaying such action

1 just makes the inevitable rate increases that much  
2 harder to absorb. However, it's important to  
3 highlight that, in actual fact, our future rate  
4 increase requests will be determined in large part by  
5 how the future unfolds.

6           So we understand that projected rate  
7 increases are important as a guidepost of where we are  
8 trying to get to. But we shouldn't lose sight of the  
9 fact that, whether high or low, our forecasts are  
10 likely to be wrong, at least in some degree. It's the  
11 nature of forecasting, particularly in a business as  
12 impacted by things beyond our control as ours.

13           We believe we must start building our  
14 strength back up now. This is where the twenty (20)  
15 year plan with relentless annual 3.95 percent rate  
16 increases, which would lead to at least a doubling of  
17 rates, fails, because we make absolutely no progress  
18 in the first ten (10) years. A drought, or even just  
19 lower water conditions, which we can never forget  
20 about, or some other unforeseen event may slow our  
21 progress, but if we have begun steps -- taken steps to  
22 begin dealing with our problems earlier, we buy  
23 ourselves the flexibility not to be trapped in a  
24 corner and forced to take drastic short-term rate  
25 action if things go differently than are forecasted.

1 Jamie...?

2 THE VICE-CHAIRPERSON: Mr. Shepherd,  
3 can I just ask a question about this table before you  
4 move on?

5 MR. KELVIN SHEPHERD: Sure.

6 THE VICE-CHAIRPERSON: So for 2016/  
7 2017, under the old plan, you've got the three point  
8 three-six (3.36), so that's the rate that was awarded  
9 on August 1st, 2016. The request was 3.95 percent for  
10 that.

11 MR. KELVIN SHEPHERD: M-hm.

12 THE VICE-CHAIRPERSON: But I am  
13 understanding you to say, then, that Manitoba Hydro is  
14 not asking that that rate be changed, that the three  
15 point three-six (3.36) is as filed? Or could you  
16 clarify what -- just -- just in terms of that rate  
17 increase, because we -- we need to consider that one  
18 in this hearing as well.

19 MR. KELVIN SHEPHERD: Yes, I think --  
20 so first, I mean, we understand that, you know, the  
21 panel, the Board has, if you wish, the opportunity to  
22 go back and -- and adjust an interim rate. From a --  
23 a practical perspective, it's difficult to -- to see  
24 how to go back and really effectively increase an  
25 interim rate from -- from our perspective.

1                   So while it certainly something that  
2 would be open for consideration, we've based our  
3 forecasts and -- and our plan going forward on the  
4 view that the interim rate of three point three-six  
5 (3.36) is -- is what is in place, and we're seeking,  
6 obviously, that to be affirmed along with requesting a  
7 7.9 percent rate increase for April 1st.

8                   So while certainly, we understand the  
9 rate is interim, it could be adjusted. Simply from a  
10 practical perspective, we've assumed that that rate is  
11 -- is what it is, and we focus more on the go-forward  
12 rates than -- than going back to the interims.

13                   MR. JAMES MCCALLUM: Continuing on on  
14 slide 25, I just want to touch on something pretty  
15 important, which is clearly going to get a lot of  
16 discussion over the course of this hearing. In  
17 looking at our new financial plan, it was clear to us  
18 that we needed significantly higher income and cash  
19 flow in order to bring our debt down to a more  
20 sustainable level in order to protect our customers'  
21 long-term interests.

22                   In looking at that expectation of cash  
23 flow, we realized that we could use these higher cash  
24 flows, after our major capital project spending  
25 abates, to save our customers some interest expense.

1 Most of the time when you look at the capital markets,  
2 you'll find that shorter term maturities -- that's  
3 debt coming due in the nearer term -- has a lower  
4 interest rate than debt with maturities that are a lot  
5 further in the future.

6           Not different than if you go to your  
7 bank and you'll generally find that a one (1) or a  
8 three (3) year mortgage has a much lower rate than a  
9 five (5) or a seven (7) year. This is known as the  
10 term structure of interest rates, or the yield curve.  
11 The amount by which shorter maturity bonds will have a  
12 lower rate than longer maturity bonds changes all the  
13 time. In fact, over the summer and fall, we've  
14 whisked -- witnessed a significant flattening of the  
15 yield curve where interest rates for three (3) and  
16 five (5) year bonds shot up a fair bit, while longer-  
17 term interest rates moved up much less dramatically.

18           So as we approached and proceeded  
19 through this major period of capital investment,  
20 Manitoba Hydro's borrowing strategy has been to focus,  
21 relatively speaking, on borrowing for longer terms.  
22 While we were sacrificing some potential savings,  
23 overall, we were and are borrowing at very favourable  
24 rates relative to history.

25           The risk management decision was



1 against a backdrop of financial plans with almost no  
2 income or cash flow for a decade or more, that we  
3 should not compound risks to ratepayers by introducing  
4 too much refinancing risk into the equation. If you  
5 instead use a lot more shorter-term debt maturities,  
6 in the absence of income, you are guaranteed to have  
7 to go back to the markets to refinance, and therefore  
8 you're 100 hundred percent exposed if interest rates  
9 have gone up in the meantime.

10                   Our choice, and I think it was a good  
11 one, was to lock in the rate on more of our debt for  
12 longer periods of time. Homeowners who have a  
13 mortgage payment that is right at the outside of what  
14 they can afford will often be advised to take out  
15 longer-term mortgages. They forgo saving a little bit  
16 of money, but they're in a situation that's a bit of a  
17 Pascal's Wager. They can't afford to be wrong and  
18 have rates go up. Manitoba Hydro's in a similar  
19 situation.

20                   However, if we think we're going to  
21 have earnings and cash flows, then there's the  
22 opportunity to move some of our \$13.5 billion in new  
23 borrowings and refinancing over the next five (5)  
24 years to come due earlier. This is not risk-free. If  
25 the cash flows don't show up for whatever reason, poor

1 water conditions, rising interest rates, soft export  
2 prices, lack of rate increases, unexpected capital  
3 needs, then we will have exposed ourself to even more  
4 refinancing risk. But if we are reasonably confident  
5 in the cash flows materializing, it is, in our  
6 estimation, a risk worth taking for the savings  
7 opportunity.

8                   So our plan includes the assumption  
9 that our new borrowings will have an average maturity  
10 of twelve (12) years. In practical terms, we use a  
11 mix of three (3), five (5), ten (10), and even thirty  
12 (30) plus year bonds to arrive at that. Old plans  
13 would have had an average maturity of twenty (20)  
14 years.

15                   So when we show the impacts of our  
16 plan, or a 3.95 percent plan, just be aware that there  
17 is an important difference in assumption. Our debt  
18 management strategy is a key element of how we manage  
19 risk in a period of high vulnerability. It would be  
20 very, very unwise to shorten up our maturity schedule  
21 when we are so vulnerable to interest rate volatility.

22                   This hasn't changed. Regrettably, what  
23 has changed, as I mentioned, is this yield curve.  
24 While when we did our financial plan, this looked like  
25 a \$500 million savings opportunity over ten (10)

1 years, based on the current yield curve, about \$250  
2 million of that opportunity has, at least for now,  
3 gone away. Slide 26.

4 THE VICE-CHAIRPERSON: Mr. McCallum,  
5 can I just ask you to comment on the vulnerable --  
6 vulnerability issue in the context of the provincial  
7 debt guarantee?

8 MR. JAMES MCCALLUM: Vulnerability --  
9 perhaps I could ask you to rephrase the question?

10 THE VICE-CHAIRPERSON: So there is a  
11 provincial debt guarantee --

12 MR. JAMES MCCALLUM: Correct.

13 THE VICE-CHAIRPERSON: -- for debt  
14 incurred by -- by Manitoba Hydro, correct? So you  
15 talk about vulnerability because of the -- well, the  
16 fragile position that you've described, and the  
17 potential for changes in the situation, but there is  
18 the debt guarantee. So how does that impact the  
19 vulnerability that you speak of?

20 MR. JAMES MCCALLUM: Sure. Well, the  
21 -- the debt guarantee fee is paid almost as an insuran  
22 -- as an insurance premium to the Province of  
23 Manitoba, which basically compensates the Province of  
24 Manitoba for stepping up to the obligation to step  
25 into our shoes and take on our debt to the extent we

1 can't support it ourselves. And so in so far as we  
2 have that guarantee in place, it's really, you know,  
3 kind of quite difficult for -- for Manitoba Hydro or  
4 the Province of -- it's quite difficult for Manitoba  
5 Hydro to default on its debt. All that happens is  
6 that -- that Manitoba Hydro may not be able to service  
7 the full extent of its debt, and the Province of  
8 Manitoba would have to step in.

9 MR. KELVIN SHEPHERD: Jamie, Madam  
10 Vice Chair, perhaps I -- I'm -- because I was  
11 listening to your question, and I think where you were  
12 going is we talked about this vulnerability period,  
13 and -- and does the -- I think the essence of your  
14 question was, does the provincial guarantee fee  
15 somehow mitigate that work --

16 THE VICE-CHAIRPERSON: That's correct.

17 MR. KELVIN SHEPHERD: Yeah.

18 THE VICE-CHAIRPERSON: That's what I  
19 was wondering.

20 MR. KELVIN SHEPHERD: And -- and the  
21 vulnerability is really around the need to refinance.  
22 So certainly, the provincial guarantee fee helps  
23 ensure that we will be able to refinance it, and the -  
24 - and, you know, we'll talk later about this, but in  
25 my view, the -- the guarantee fee lets Manitoba Hydro

1 access debt that, given its current capital structure  
2 and rates, might not otherwise be able to access.

3           What it -- it doesn't necessarily do is  
4 reduce the risk that you might have to refinance at a  
5 higher rate. That's really a market risk. Now, the  
6 guarantee fee will help us ensure that we can  
7 refinance, and it helps ensure that we get refinancing  
8 at a -- at the most attractive rate, or at least the  
9 rate that's available to the Province. So it does  
10 help mitigate refinancing risk to that degree, but it  
11 doesn't necessarily eliminate the risk that you might  
12 have to refinance at a significantly higher rate.  
13 That really depends on the -- the markets at the time.

14           THE CHAIRPERSON: But if -- sorry, if  
15 I could follow-up on that, if -- if the situation for  
16 the Province of Manitoba improves, and the situation  
17 for Manitoba Hydro doesn't improve, you would get the  
18 benefit of an interest rate based on the better Manito  
19 -- Government of Manitoba rate.

20           Similarly, if your situation improved  
21 and the Government of Manitoba situation worsened,  
22 notwithstanding the steps you took, you'd be looking  
23 at higher rates because of the government. You're  
24 borrowing off the government line. That -- that --

25           MR. KELVIN SHEPHERD: That's -- that's

1 correct. We're -- we're not really totally in  
2 control, because really, our -- our debt is raised  
3 really through the Province and subordinated through  
4 the Province.

5 THE CHAIRPERSON: Thank you.

6 MR. JAMES MCCALLUM: Yeah. Mr.  
7 Chairman, you're -- you're raising a -- a vital point.  
8 Really, we are susceptible to -- to the overall  
9 condition of the capital markets. When we borrow  
10 money through the Province of Manitoba today, if it  
11 costs, call it 3 1/2 percent before the debt guarantee  
12 fee, roughly 2 1/2 percent of that, or 2.2 percent of  
13 that is in the form of -- of the way debt is priced as  
14 on a Government of Canada -- who reference a  
15 Government of Canada or sometimes a Government of  
16 Ontario bond yield, and then there's a provincial  
17 spread on top of that.

18 And all of these things move around for  
19 all kinds of reasons, some relating to Manitoba, some  
20 relating to Manitoba Hydro, some relating to -- to a  
21 whole bunch of other things that have nothing to do  
22 with what happens, you know, in this neck of the  
23 woods. It's this total debt level that we're  
24 concerned about, and what the overall rate, you know,  
25 overall interest rates could do in the future and

1 where that will leave us and our customers.

2                   So moving on to slide 26, please.

3 We're going to look at a comparison of net income  
4 under our financial plan that's known throughout the -  
5 - the evidence as MH16 update with interim, which is a  
6 long handle, and I don't have a -- an acronym to offer  
7 -- and the same plan using 3.95 percent rates. As  
8 noted, our plan assumes utilizing this -- this more  
9 aggressive debt terming strategy, while the 3.95  
10 percent path uses our traditional debt management  
11 strategy, consistent with an outlook for no cash flow  
12 or income in the next decade, which you can see  
13 clearly in that chart.

14                   The Intervenors have produced a -- a  
15 bunch of evidence relying on a scenario with 3.95  
16 percent rate increases, but with twelve (12) year debt  
17 terming. In our view, they've been wrong to do so.  
18 The debt strategy doesn't exist, and won't be followed  
19 if we have an expectation of higher -- if we do not --  
20 do not have an expectation of higher cash flows in the  
21 next five (5) or ten (10) years.

22                   As you can see, the two (2) plans lead  
23 to markedly different outcomes. The blue bars are  
24 annual net income under our plan. They total about  
25 \$3.8 billion over the next ten (10) years, or average

1 about \$380 million a year. That's obviously a  
2 significant departure from where we've been late in --  
3 in lately, but actually, in line with 2008, when we  
4 made 346 million, or 2006, when we enjoyed 415 million  
5 of net income, both on a much smaller business. The  
6 amounts are significant. You need income if you are  
7 ever going to generate the cash flow that you need to  
8 pay down your debt.

9                   The next ten (10) years are about  
10 getting our debt under some control to take some of  
11 the risk out of a perilous and unprecedented financial  
12 situation. I say "unprecedented" for a reason. We  
13 have seen and will undoubtedly hear lots more evidence  
14 along the lines of, we've been here before -- we heard  
15 that this morning -- and that so a slow and steady fix  
16 to the balance sheet is the right answer again.

17                   Coming out of Limestone and other  
18 periods of major capital investment, Manitoba Hydro  
19 did have a 5 or a 10 percent equity ratio, and nothing  
20 bad happens -- happened, goes the argument. First  
21 off, avoiding calamity once doesn't mean you will  
22 again. But we have never been here.

23                   After Limestone, we had \$4 1/2 billion  
24 of debt. That was about ten thousand dollars  
25 (\$10,000) of debt per customer. Today we have thirty-



1 five thousand dollars (\$35,000) of debt per customer.  
2 We're heading to about forty-two thousand dollars  
3 (\$42,000) of debt per customer, four (4) times higher.

4           That should make sense if we think back  
5 to that debt per gigawatt hour of load chart. Now  
6 let's look at what happened next back then, as  
7 compared to what we would be planning to do if we  
8 followed the 3.95 percent rate path. In the ten (10)  
9 years after Limestone, we had net income of almost \$1  
10 billion. Those are in then dollars, not even  
11 adjusting for inflation over twenty (20) years.

12           That was earning -- earned operating a  
13 business that averaged about \$5 billion of net plant  
14 in service over that decade. It was earned operating  
15 a business in a significantly higher rate interest  
16 environment, three (3) to four (4) times higher, and  
17 in a decade where we enjoyed above-average water  
18 conditions in two (2) of the ten (10) years.

19           Let's turn to the 3.95 percent plan.  
20 These green bars add up to a loss of 400 million for  
21 the decade, including \$850 million of losses in the  
22 last five (5) years, so a \$400 million loss in an  
23 environment of multi-generationally low interest  
24 rates, with the assumption of average water conditions  
25 throughout, and rising export prices as an assumption

1 while operating a business with \$26 billion in assets  
2 and plant in service.

3                   So our business is five (5) times  
4 larger. Our relative debt levels are four (4) times  
5 greater, and we would propose to, instead of making  
6 the 1 million -- 1 billion we did in the decade after  
7 Limestone, instead, if things go well, lose 400  
8 million. The suggestion we were in the same place as  
9 we have been before is preposterous.

10                   We are going to talk more about equity  
11 and reserves, but for now, the message is we have to  
12 plan. And again, this is a plan based on a view of  
13 the future that is not without considerable  
14 variability. But we need to plan to make an adequate  
15 amount of money to manage our risks and start modestly  
16 chipping away at an epic level of debt before we lose  
17 the opportunity to do.

18                   BOARD MEMBER GRANT:    There -- Mr.  
19 Chair, could I interrupt on this point?

20                   THE CHAIRPERSON:     Sure.

21                   BOARD MEMBER GRANT:    I know we're  
22 going to talk about this financial stuff later, but I  
23 don't want to fall behind for the first test.  
24 Earlier, on page -- just so I understand this, on page  
25 16 of your presentation, not that I want to go back,

1 when you say 'negative' -- you referred to negative  
2 net income.

3 And now, are you taught -- I'm not sure  
4 what you meant on -- in the context of page 16. Is  
5 this -- we have positive net income today?

6 MR. JAMES MCCALLUM: Today and for  
7 fiscal '18, we do anticipate positive net income of  
8 \$30 million.

9 BOARD MEMBER GRANT: So on page 16 --  
10 you used the header "Current and future rate  
11 instability." There is negative net income. That's  
12 looking forward as --

13 MR. JAMES MCCALLUM: Looking ahead to  
14 the next decade cumulatively.

15 BOARD MEMBER GRANT: Okay. And so I  
16 just want to -- I -- I think I'd appreciate the  
17 difference between cash flow and a -- and an income  
18 statement. But again -- my people are helping me,  
19 here. Thank you, sir.

20 MR. JAMES MCCALLUM: I could hear you  
21 okay.

22 BOARD MEMBER GRANT: The row -- the  
23 rowdy roadies, here. I think you said on page 4 --  
24 I'm just not sure if it was meant to be sort of a  
25 casual shorthand, but the current rates are not

1 funding the ongoing costs of the current system. So I  
2 hear a bal -- I hear an income statement there.

3 MR. JAMES MCCALLUM: M-hm.

4 BOARD MEMBER GRANT: Is that -- that  
5 would not be correct, then. Am I misinterpreting  
6 that?

7 MR. JAMES MCCALLUM: Yeah. I -- I --  
8 our point of view is that on a cash basis, we don't  
9 have enough rate revenue to meet our ongoing regular  
10 needs. So an ongoing cost is a -- you're using that  
11 in terms of a -- okay.

12 BOARD MEMBER GRANT: And just one (1)  
13 other -- again this morning. Ms. Ramage said on page  
14 3 that Manitoba Hydro does not have enough cash to pay  
15 its operating expenses, interest expenses, and then  
16 puts in -- manage its risks. Now, risk management, I  
17 presume, refers to retained earnings for drought or  
18 potential interest rate increases?

19 MR. JAMES MCCALLUM: Retained earnings  
20 would be one (1) factor. I think we would look at  
21 risk management a little more broadly, which would  
22 include the expectation of using that cash flow to  
23 reduce our debt, which reduces our risk, and having  
24 the expectation of -- of income and cash flow such  
25 that as risks present, be it drought or -- or

1 forecast, you know, forecast variance, that instead of  
2 immediate -- immediately needing to -- to return to  
3 the ratepayer, or -- or borrowing more money to -- to  
4 fund our business, we have a cushion. We can absorb  
5 these risks without necessarily needing to take action  
6 or dramatic action quickly.

7                   BOARD MEMBER GRANT:    And -- and just  
8 the last question, for clarity. The big difference  
9 between your income statement and the cash flow would  
10 be largely the sort of sustaining capital expenditures  
11 that are coming in as a -- it's cash going out, and  
12 yet, some is being amortized over -- and not showing  
13 up -- not all of it be showing up in the current --

14                   MR. JAMES MCCALLUM:   Yes, there's --  
15 the -- the major source of the differential would be  
16 that in -- in our income statement, you'll see a  
17 depreciation and amortization charge. And that's what  
18 goes into, you know, the thinking around revenue  
19 requirement.

20                                   And that depreciation and amortization  
21 charge is quite a bit lower. It includes charges on  
22 account of -- of our current asset base, and it  
23 includes charges on account of some of these -- these  
24 liabilities that we hold for the City of Winnipeg,  
25 owing, you know, on -- on the -- the commitment to the

1 Winnipeg Hydro acquisition, or on some of our  
2 mitigation and -- and major development liability  
3 payments.

4                   There is a -- a small piece that goes  
5 through that depreciation and amortization. But when  
6 you turn around and look at the actual cash we need to  
7 spend to meet these commitments and meet the  
8 commitments of -- of sustaining and -- and maintaining  
9 the system, they're quite a bit higher. And that  
10 leads to this cash gap.

11                   BOARD MEMBER GRANT: And -- and last  
12 point, I promise. The DSM would be an example of  
13 that, where your -- the money is going out the door  
14 today, but the cost is being amortized over several  
15 years?

16                   MR. JAMES MCCALLUM: DSM would be  
17 another example, correct.

18                   BOARD MEMBER GRANT: Thanks.

19                   MR. JAMES MCCALLUM: I forgot where we  
20 were.

21                   MR. KELVIN SHEPHERD: Slide 27, I  
22 think.

23                   MR. JAMES MCCALLUM: Twenty-seven  
24 (27). Okay, slide 27, please.

25                   This next slide just shows another

1 comparison of our plan to the 3.95 percent plan. We  
2 saw a fair bit of common ground in the -- in the  
3 Morrison Park advisors report commissioned by the  
4 Coalition and -- and MIPUG. I thought was actually a  
5 very good, balanced piece of work, but I don't agree  
6 with all of their conclusions, just to be clear.

7                   But in -- in there, we take some  
8 criticism from what's seen as a -- a sole focus on the  
9 equity ratio, and without good reason. And the cash  
10 flow should be our concern in measuring financial  
11 health and rate adequacy. Our evidence actually shows  
12 an enormous focus on cash flow, which somehow got  
13 overlooked.

14                   We will have a good debate on all that  
15 in due course, I'm sure, but this chart simply shows  
16 that the relationship between cash flow and improving  
17 equity ratios. Under our plan, again in blue, we  
18 generate net income and cash flow, and are able to end  
19 2027 with \$4 billion less debt than under the 3.95  
20 percent rate plan strategy.

21                   Attaining an equity ratio is a function  
22 of generating net income and/or reducing debt. With  
23 improved net income generally comes improved cash  
24 flow, which pays off that debt. So the two (2) work  
25 together, which this chart shows. Under the 3.95

1 percent plan, we have negative net income and negative  
2 cash flow. Consequently, the debt continues climbing,  
3 even after Keeyask is on board, and the equity ratio  
4 erodes even further until reaching 10 percent in 2026,  
5 where, incidentally, it would stay until 2032. To my  
6 knowledge, we have never put forward a plan like that.

7                   Slide 28. So our plan starts attacking  
8 the debt to take some of the risk off the Corporation  
9 and its customers. This chart tracks debt to domestic  
10 revenue. Again, the relationship of debt to domestic  
11 activity is critical, as it is the domestic customers  
12 who absorb 100 percent of the volatility that comes  
13 from any of the risks that face our business,  
14 including interest rates, water conditions, and export  
15 prices.

16                   Once again, you can see that since  
17 Limestone, debt has grown out of all proportion to our  
18 business activities. Our debt to domestic revenue is  
19 already double historic norms, and triple our two (2)  
20 Canadian peers who are Hydro generators. Our plan is  
21 more aggressive in bringing this relationship back  
22 toward where it was -- it was before the build program  
23 began, but will still leave us with levels of debt, on  
24 a relative basis, 30 percent above where we were from  
25 1990 to 2010.



1           The 3.95 percent path doesn't do nearly  
2 enough, while the denominator in the equation, that  
3 being domestic revenue, goes up on the back of 47  
4 percent worth of rate increases over a decade. A lack  
5 of income and cash flow means there's no progress  
6 whatsoever on the debt.

7           MR. KELVIN SHEPHERD: Pardon me.  
8 Slide 29. Thanks, Jamie. Now, to draw this together,  
9 what does our plan achieve? First, I would say this  
10 is not a plan that, over ten (10) years, even should  
11 everything unfold according to the financial model,  
12 puts us in a position of great strength. Manitoba  
13 Hydro will still be a highly leveraged company by any  
14 standard, including a comparison to our own history.  
15 With this new plan, we will still have \$21 billion of  
16 debt with all the consequent rate risks that go with  
17 having that much debt in comparison to our domestic  
18 business, but we will have avoided 4 billion of debt,  
19 which means we will be avoiding over 200-\$250 million  
20 a year of more interest costs.

21           Debt we don't have represents a reduced  
22 risk to our customers and improved rate stability and  
23 certainty. Depending on the future state and  
24 investment needs of our business, having reached an  
25 acceptable level of financial strength, we will have

1 the potential ability to return to our customers the  
2 benefit of this work in the form of substantially  
3 lower rate increases going forward, or perhaps even to  
4 consider rate decreases. Meanwhile, if we stick to  
5 the old failed twenty (20) year plan, we will find  
6 ourselves with nine (9) or ten (10) more years of 4  
7 percent rate increases, pushing overall rates to well  
8 over double where we sit today.

9                   Slide 30. This slide provides an  
10 illustration of just that, showing how our new plan  
11 provides the potential flexibility for lower rates  
12 once financial strength is restored. Again, this is  
13 simply an example of the powerful benefits of coming  
14 to terms with our unsustainable debt and taking action  
15 to reduce debt and debt service costs.

16                   What ends up being appropriate in terms  
17 of rate action ten (10) or fifteen (15) years from now  
18 will be a function of events between now and 2027, but  
19 it goes to show you how dramatically different the  
20 future can be where the only difference is the time  
21 taken to restore our financial health. The long-term  
22 interests of our customers and the economy is served  
23 by taking steps today to bring our debt back to levels  
24 that allow us to absorb risk.

25                   Slide 32. We're moving into a

1 discussion of our risks. So what risks do we face?  
2 Well, we have a lot of them, which Jamie will  
3 elaborate on shortly. Along with a rapidly changing  
4 regulatory environment, and by regulatory, I'm not  
5 necessarily talking the Public Utilities Board. I'm  
6 talking environmental and federal regulation, and the  
7 overall industry that -- that we're in. So that is  
8 changing rapidly. We have rapidly changing  
9 technological and economic environment. These risks  
10 are a major part of what makes forecasting such a  
11 challenge.

12                   Our risks are not theoretical. Every  
13 single one of the things that we worry about and  
14 suggest we ought to plan for is something we have seen  
15 happen before. We have had below-average water  
16 conditions. We've had droughts. We have had export  
17 prices defy rebound projections. We have had domestic  
18 load growth slow. We've had capital investment needs  
19 go up. We've had interest rate volatility.

20                   The risks we talk about are not remote  
21 or implausible. We don't know which, when, or how  
22 severe each one will present, or worse, if a few of  
23 them will present concurrently, but we can be pretty  
24 sure one (1) or more of these risks will materialize,  
25 even in the near term, let alone the longer term.

1                   No other major hydroelectric utility  
2 has the volatility in water conditions we face, nor  
3 does anyone else have such a small reservoir relative  
4 to their operations. Our exposure to mother nature in  
5 that respect is quite extreme.

6                   By just about any measure, we are  
7 heading towards having more debt than almost anyone  
8 else in our industry, and certainly more debt relative  
9 to the size of our business than potentially we have  
10 ever had. The argument goes that as a hydroelectric  
11 generator, you have long-lived assets, and you're not  
12 exposed to fuel price volatility the way coal or a  
13 natural gas-fired utility would be.

14                  And that's true in part, but financing  
15 ourselves in such an extreme way, we are replacing  
16 commodity price volatility with interest rate  
17 volatility. We can't borrow at a fixed rate for the  
18 seventy (70) or a hundred years our generators are  
19 expected to last, so we are perpetually exposed to  
20 interest rate risk, all of which is borne by a  
21 relatively small customer base.

22                  Our export business has been of huge  
23 value to keeping rates low for Manitobans, but having  
24 such a heavy reliance on it means we are exposed to  
25 the risks that pricing doesn't go up like the previous

1 management and Board had hoped. We've seen this for  
2 the last seven (7) or eight (8) export price  
3 forecasts. This risk increases after we bring Keeyask  
4 into service, when we will have more energy to sell  
5 into export markets -- unless more susceptibility to  
6 weak pricing and/or the inability to sign or extend  
7 long-term contracts at premium prices.

8                   Last, but most certainly not least, our  
9 major capital projects, principally Keeyask and Bipole  
10 III, but not to overlook our US tie-line project. We  
11 are working to bring these projects in or -- in on or  
12 ahead of schedule, and below or at current budget  
13 estimates. Our financial forecast has both cost and  
14 revenue dependencies tied to completion of these  
15 projects.

16                   We look forward to the report of the  
17 Board's independent expert MGF to hear their  
18 assessment. However, it cannot be understated that  
19 these are massive and complicated megaprojects, and  
20 there remain real risks of cost escalation or schedule  
21 delays. In particular, with Keeyask, we were almost  
22 four (4) years from first power, and six (6) years  
23 from full completion. Our current budget estimate is  
24 what is known as a P50 or 50 percent probability  
25 budget. Although I have tremendous confidence in and

1 respect for our project teams who are working  
2 extremely hard and diligently, the potential for  
3 increased capital costs is a risk that at least needs  
4 to be considered in our financial plan.

5 Jamie...?

6 MR. JAMES MCCALLUM: Slide 33. I  
7 think I'll try to pick up the pace a little bit to get  
8 through -- through these risk slides, if I can.

9 This chart depicts our -- our water  
10 flows over the last, I believe it's a hundred and five  
11 (105) years, maybe hundred and ten (110) years. As  
12 you can see, extremely volatile. I will perhaps just  
13 point out that in -- and -- and it -- it can also  
14 change quite quickly. You can see that, in roughly  
15 2003, we had water flows at about 60 percent of mean,  
16 and two (2) years later, we had what remains our --  
17 our record.

18 I think what I'll steer you towards the  
19 right-hand side of the page, where you can see -- and  
20 -- and I can tell you that's fourteen (14) years --  
21 that we've had fourteen (14) consecutive years of good  
22 water. We're grateful for that, but perhaps when  
23 coupled with a decade of continuously lowering  
24 interest rates, it's helped to obscure the acute  
25 inflation of risk that has been happening here. If

1 water conditions are a coin flip, and we don't know  
2 they are, the impacts of climate change are unclear.  
3 I'm sure there will be an opportunity to -- to talk  
4 more about this, but, you know, some of our evidence  
5 will be that -- that water conditions are likely to  
6 get more volatile. But if they are a coin flip, the  
7 odds of flipping heads fourteen (14) times in a row is  
8 about 16000:1. That said, once you've done it, the  
9 odds of the 17th time are 50/50.

10                   We don't know what's going to happen  
11 next year. Less than six (6) months ago, nearing the  
12 end of the first quarter, we thought we were going to  
13 make \$90 million extra from water conditions this  
14 year, after the -- starting the year with extremely  
15 high reservoir levels and having very high spring  
16 runoffs. That extra income from high water levels we  
17 were anticipating would cause a hundred percent of our  
18 net income this year after adjusting for the impact of  
19 the interim rate order in August.

20                   So put another way, with average water  
21 conditions, we would've expected to make zero. That  
22 was in June, when we prepared our updated financial  
23 forecast in advance of the interim hearing.

24                   Over the summer, it was particularly  
25 dry in the Saskatchewan River, and -- and throughout

1 our -- our watershed. Inflows and reservoir levels  
2 dropped dramatically, meaning opportunity export --  
3 meanwhile, opportunity export prices remained barely  
4 above last year's level, and well below our forecast.  
5 And so almost \$60 million of that increment --  
6 incremental or excess net income evaporated, no pun  
7 intended.

8                   Thankfully, fall precipitation has been  
9 fairly normal, but it goes to show you how quickly  
10 this can all turn, and that's the message. We can't  
11 rely it. We can't hope to keep repeating what has  
12 happened since NFAT, what's happened for fourteen (14)  
13 years.

14                   From NFAT, or from the end of 2014 to  
15 the end of 2017, virtually all of the growth in our  
16 retained earnings, our equity, in other words, our net  
17 income for those three (3) years, came from unexpected  
18 contributions from above-average water conditions.

19                   Slide 34. I spoke to this, but just by  
20 way of update to the Board, when we published our  
21 second quarter report in early November, we updated  
22 our forecast. For our electric segment, we have seen  
23 a \$63 million drop in our outlook for test years' net  
24 income. When we prepared MH16 update with interim --  
25 still don't have a -- an acronym -- in response to the



1 rate order and in order to respond first round  
2 information requests, we were forecasting \$93 million  
3 of net income in this 2017/'18 year. We now estimate  
4 that to be \$30 million, a decline of almost 70  
5 percent. Almost all of this drop is caused by poor  
6 water inflow conditions over the summer and  
7 opportunity export prices that continue at levels  
8 unchanged from last year, or as our forecast had  
9 appreciate -- had anticipated appreciation.

10 Slide 35. Looking ahead to next year,  
11 which begins in only four (4) months. This shows our  
12 exposure -- our net income exposure -- or net export  
13 revenue exposure, pardon me, to water flows. So in a  
14 year that starts four (4) months from now, we are  
15 anticipating -- and this is updated for -- for the  
16 water conditions that transpired this summer, we are  
17 anticipating roughly \$200 million contribution from  
18 our export business, net of water rentals and fuel and  
19 power purchased.

20 What you can see here is that this is  
21 not very far away, and we have a huge amount of  
22 exposure. There is roughly a \$500 million potential  
23 variance from top to bottom in terms of what the  
24 export business will actually contribute next year.  
25 If water flows between then and now are in drought

1 condition, we would have a negative \$200 million hit  
2 to our -- our net income.

3                   If water flows are -- are, you know,  
4 kind of on a record basis, the \$200 million we are  
5 anticipating moves up \$100 million to 300 million.  
6 You can see the risks asymmetric meaning that water  
7 flow conditions hurt us much more on the way down than  
8 they do on the way up.

9                   I think, though, what we would say is  
10 that we would be wise to kind of take what happened  
11 this summer and what it did to our 2017/18 anticipated  
12 net income as a little bit of a warning. An example  
13 of why we should be very cautious with how much we can  
14 rely on what, ultimately, is a natural phenomenon.

15                   The Board also needs to be aware that  
16 our financial forecast relies on appreciating  
17 opportunity export prices. We're not anticipating  
18 those prices to appreciate as much as we had in the  
19 past, but they're still in the plan heading upward.  
20 Each of the last plans have said that; each time it  
21 hasn't happened yet.

22                   But, if you look forward nine (9) or  
23 ten (10) years from now roughly \$90 million of our net  
24 income will be coming from the rise in export prices  
25 from today's level; that's significant to our plan.

1 Taking the 3.95 percent path, it's the difference  
2 between losing \$200 million a year in 2027 and losing  
3 \$300 million a year.

4 Slide 36, please. Finally and just  
5 briefly on interest rates, in the sensitivity analysis  
6 we produced drought emerges as the biggest financial  
7 risk. A five (5) year dry spell costs us well over \$1  
8 billion. But in my mind, given our debt levels it's  
9 actually the interest rates that are the true iceberg.

10 Under our plan, or what I'll call a  
11 competing theory of 3.95 percent rate increases, but  
12 with a very risky debt terming strategy in light of  
13 having no expectation of income and negative cash  
14 flow, we will need to go to the markets for somewhere  
15 between 19 billion and \$23 billion over the next ten  
16 (10) years; roughly 14 billion of that in just the  
17 next five (5) years.

18 So over the next decade we are  
19 borrowing new or refinancing virtually all of our  
20 debt. Depending on how fast rates moved, and it's  
21 worth pointing out that the five (5) and ten (10) year  
22 bank of Canada rate is already above what we had in  
23 our forecast for fiscal 2018, a 1 percent rate  
24 increase versus our plan could be costing the company  
25 upwards of \$200 million per year by the end of the

1 decade, depending on how fast the interest rates rose.

2                   And that keeps going and going into the  
3 next decade. A drought presumably at least has an  
4 end. If you get on the wrong side of a cyclical  
5 change in interest rates, there's just no telling how  
6 much damage will get done.

7                   THE VICE-CHAIRPERSON:   Mr. McCallum,  
8 can I just -- sorry, can I ask you to clarify on that  
9 -- you said you need to go to the markets for between  
10 19 and \$23 billion over the next X number years, but  
11 that's not all going to be new borrowing. Like, there  
12 must be some that's already in place that -- that you  
13 would have at -- in predetermined interest levels?

14                   MR. JAMES MCCALLUM:   Over the next ten  
15 (10) years, you will need to go to the market -- first  
16 over the next five (5) years we're going to need to go  
17 to the market for about \$8 billion of new financing;  
18 that's basically to fund the completion of these major  
19 capital programs and run our business.

20                   There's an additional \$5 1/2 billion  
21 which is refinancing existing debt that we have today  
22 as it comes due over the next five (5) years. It's  
23 scheduled. And likewise, if you take what we have  
24 kind of -- the debt we have today, and its maturity  
25 schedule over the next ten (10) years. And that's

1 where this -- this discussion or decision around our  
2 terming strategy becomes important. That \$8 billion  
3 we know we have to borrow. If we start borrowing that  
4 money on three (3) and five (5) year kind of  
5 maturities that too will fall into this ten (10) year  
6 window.

7                   And so, there are elements of our -- of  
8 our -- of our debt portfolio which extend well beyond  
9 2027. But in the main, and this -- this depends on  
10 the debt terming strategy you take and your  
11 expectation of cash flow, but in the order of \$19 to  
12 \$23 billion, we're going to need to go to the market  
13 for either as new funds or to refinance existing debt.

14                   THE VICE-CHAIRPERSON: Thank you.

15                   MR. KELVIN SHEPHERD: It's almost the  
16 entirety of our debt portfolio.

17                   MS. PATTI RAMAGE: Mr. Chair, before  
18 we carry on, Mr. McCallum and Mr. Shepherd are  
19 switching off your having to listen to constant -- to  
20 them constantly. We're open to if you'd like a five  
21 (5) minute break, or if you'd like to keep going, we  
22 look to your direction on that.

23                   THE CHAIRPERSON: I think we're into  
24 negotiations up here as to the -- we'll take ten (10)  
25 minutes right now.

1 --- Upon recessing at 2:35 p.m

2 --- Upon resuming at 2:54 p.m.

3

4 THE CHAIRPERSON: Okay, if we could  
5 resume. If we could maybe pick it up a little, we'd  
6 like to be finished a little over an hour and starting  
7 crossly so we can keep to the schedule.

8 MR. KELVIN SHEPHERD: We'll do our  
9 best, Mr. Chair.

10 THE CHAIRPERSON: Thank you.

11 MR. KELVIN SHEPHERD: Slide 38,  
12 there's a number of really important themes we regard  
13 them as facts which we'll keep coming back to  
14 throughout this hearing.

15 When you cut through all the detail,  
16 the minutia, the noise and take a step back, there  
17 emerge just a few critical observations which we will  
18 -- believe will help inform the right rate decision.

19 The first is unequivocally and  
20 undeniably our business outlook has deteriorated since  
21 it was last reviewed with the Public Utilities Board.  
22 This chart shows our outlook for domestic load growth.  
23 The yellow and green lines show our outlook for the  
24 last two (2) integrated financial forecasts. MH14  
25 would've underpinned the last full General Rate

1 Application while MH15 would have been reviewed as  
2 part of the 2016 interim rate process.

3           The dark blue line represents our  
4 current load forecast. Our current expectation is  
5 that net of our existing demand-side management plans,  
6 we will see no net load growth for ten (10) years.  
7 We'll see a decline in the next four (4) to five (5)  
8 years followed by an increase to just get us back to  
9 where we've started.

10           This forecast is increasingly looking  
11 optimistic. Since we submitted this financial plan in  
12 July, a major customer project in the energy sector  
13 that was in our plans starting in 2021 has been  
14 cancelled. Just the loss of this project pushes us to  
15 almost 2030 before we'll see net growth. The province  
16 of Manitoba has enacted legislation to create  
17 Efficiency Manitoba.

18           The legislation sets out efficiency  
19 goals for DSM programming that generated 22.5 percent  
20 reduction in electricity usage over fifteen (15)  
21 years. Our current DSM plan, that is reflected in  
22 this forecast, assumes achievement of a 17 percent  
23 reduction, and includes DSM programming costs  
24 associated with achieving only 17 percent.

25           The incremental impact on net load

1 growth of achieving legislatively mandated targets  
2 would be to push the point at which we simply return  
3 today's low level all the way out to 2035.

4           Finally, our rates are set in units of  
5 demand and usage. Our rate increases are expressed in  
6 percentages. Not to be lost as we record our actual  
7 revenues in dollars, a substantially reduced load  
8 arose the revenue impact of the same percentage  
9 increase in rates. So if you look out to 2026 or  
10 2027, you can see that there is about a 2000 gigawatt  
11 hour difference in our expected load from our MH-15  
12 projection.

13           Regardless of the rate path taken to  
14 generate the same revenue dollars that year, we would  
15 need about 9 percent more in rates than we would have  
16 if the load were higher.

17           Slide 39. Turning to our export  
18 business, we've also seen dramatic erosion in our  
19 outlook. This continues a pattern seen since the  
20 market for electricity collapsed in 2008 and 2009  
21 amidst the global financial meltdown.

22           The chart demonstrates our price  
23 forecast in successive financial plans. For  
24 competitive and commercial reasons we blend our  
25 contracting opportunity pricing. This understates the



1 impact of declines in the outlook for opportunity or  
2 spot market pricing. The decline in forecast  
3 opportunity pricing between our 2015 export price  
4 forecast and our 2017 export price forecast is  
5 expected to cost us almost \$170 million per year by  
6 the time Keeyask is fully on-stream in 2023/24.

7                   However, it should be noted that we are  
8 still forecasting price appreciation, notwithstanding  
9 seven (7) or eight (8) years now of essentially flat  
10 opportunity pricing. So, that's quite an assumption.

11                   By 2026/27 if prices haven't materially  
12 improved, our forecast will be upwards of \$100 million  
13 per year too high. Bear in mind, we may net income of  
14 only \$33 million last year and expect we will only  
15 make \$30 million this year.

16                   Slide 40. I spoke about Keeyask  
17 already, but I'll just say it again, it's a massive  
18 complicated project that is a long long way from  
19 finished. Our risk of still experience additional  
20 cost overrun increases is real. With an \$8.7 billion  
21 project measured against the business with about 1.5  
22 billion of domestic revenue, small percentage changes  
23 in the project cost can reflect through our revenue  
24 requirement quite significantly.

25                   For example, if there was a further \$1

1 billion increase in capital cost, it would add \$60 to  
2 \$70 million per year to our costs without any  
3 offsetting revenues. Importantly as it comes to the  
4 question of whether our business outlook has  
5 deteriorated since our last full rate process, the  
6 Keeyask control budget has increased by \$2.2 billion,  
7 or 25 percent.

8                   Slide 41. Bipole III is also increased  
9 by \$400 million since our last rate process. Our  
10 confidence level in the \$5 billion cost estimate is  
11 quite a bit higher in this project since it's far  
12 advanced construction is well along and, in fact,  
13 we've begun some commissioning work on the HVDC  
14 converter stations.

15                   Bipole III is expected to come into  
16 service in just over nine (9) months, but it should be  
17 noted that hereto we have seen a material budget  
18 increase over previous forecasts and as we finish  
19 construction and enter a very complex commissioning  
20 phase, we're still a degree of schedule and cost risks  
21 remaining. However, we do expect Bipole III to be  
22 fully in service next year. And that's important to  
23 our financial plan; a significant new operating cost  
24 will start to flow under our income statement and this  
25 reinforces the necessity of obtaining the 7.9 percent

1 rate increase on April 1st.

2 Slide 42, and I'll turn it over to  
3 Jamie.

4 MR. JAMES MCCALLUM: Thanks, Calvin.

5 So to sum up, the comparison of our new financial  
6 outlook using the old 3.95 percent rate trajectory  
7 versus MH15, which would've been the financial plan  
8 reviewed during the 2016 rate process before this  
9 Board, revenue is down \$3 billion; roughly 50-50 split  
10 between export and domestic.

11 Net income over the next decade has  
12 gone from a forecast under MH15 of \$600 million to a  
13 negative \$400 million loss; that's a \$1 billion  
14 decline. And debt will be \$3.2 billion, or 15 percent  
15 higher at the end of 2027.

16 The equity ratio which had been  
17 forecast to reach 14 percent at the end of 2027, we  
18 anticipate, if all went to plan and we stuck to this  
19 3.95 percent rate path, the equity ratio would've  
20 deteriorated to 10 percent.

21 Slide 43, please. As bad as that looks  
22 this actually understates the erosion. MH15 didn't  
23 count on \$87 million of additional net income that was  
24 earned from high water conditions last year. MH16 in  
25 comparison is overstated by 78 million in that it

1 assumes water conditions from this fiscal year  
2 impacting this year's results and next year's that as  
3 of now we don't think are going to occur. In fact,  
4 we've already seen the -- the results of that.

5           And most importantly, MH15 and MH16  
6 have two (2) different in-service dates for Keeyask.  
7 So when comparing an eleven (11) year period, you've  
8 got one where you have Keeyask operating for twenty-  
9 one (21) months more than the other one; that's pretty  
10 material, particularly because -- and we've shown this  
11 in tab 2 of our application, Keeyask we anticipate  
12 being a -- a net detractor to our financial position,  
13 our net income for a considerable period of time,  
14 decades even based on the current outlook for its  
15 costs and -- and the revenues that will flow off of  
16 that.

17           I'll pause here just because important  
18 to be clear, Keeyask is going to have that detrimental  
19 effect. Its revenue won't really even come close to  
20 covering its incremental costs, including  
21 depreciation. We've heard this morning that we need  
22 to be measured in absorbing Keeyask and the impact  
23 Keeyask because its payoffs will be such as if they  
24 were for Limestone, you know, enjoyed over the long  
25 term. I think we have to pause and wonder how long

1 that term is going to be and on the current outlook,  
2 it's -- it's going to be a long, long, long time  
3 before Keeyask is needed for domestic use. And before  
4 Keeyask is in a position where it's really able to --  
5 to generate coverage of its costs.

6                   So I think we have to -- to start  
7 considering that ratepayers will need to -- to start  
8 bearing the cost of carrying this asset and this  
9 excess capacity.

10                   THE CHAIRPERSON:     Sorry, Mr. McCallum,  
11 so when is Keeyask needed? You're saying it's a long,  
12 long time. What's the projected date that it -- that  
13 it's required.

14                   MR. JAMES MCCALLUM:     Well, the -- the  
15 projected date Keeyask will start filtering into  
16 servicing and it's -- it's a system of course, but the  
17 incremental energy from Keeyask will be needed  
18 domestically, we think, in the 2033 to '34 timeframe,  
19 which would mean -- and then as the business grows  
20 into and absorbs Keeyask, it's kind of the early --  
21 it's 2040 or just beyond that we're, you know, looking  
22 at the next need but I would say, you know, a couple  
23 charts ago, Mr. Shepherd talked about, you know,  
24 reductions in -- in load growth owing to an already  
25 known cancelled project owing to the potential for

1 Efficiency Manitoba. We're not sure.

2 THE CHAIRPERSON: Okay, but your  
3 comment was, Keeyask, it's a long time before it's  
4 needed for domestic use. When is it needed for  
5 domestic use?

6 MR. JAMES MCCALLUM: Under the current  
7 load forecast 2033 it begins.

8 THE CHAIRPERSON: Okay. And -- and  
9 just, sorry, now that I've got you, what's the P90 on  
10 Keeyask? You've got 8.7 as the P50, what's the P90  
11 for it?

12 MR. KELVIN SHEPHERD: Subject to just  
13 check, I think it's close to 900 million higher than  
14 the control plan.

15 THE CHAIRPERSON: So 8.7 plus nine  
16 hundred (900)?

17 MR. KELVIN SHEPHERD: 9.6 billion,  
18 yeah.

19 THE CHAIRPERSON: Thank you.

20 MR. JAMES MCCALLUM: So, again, back  
21 to this twenty-one (21) month delay if you put things  
22 on more of an apples-to-apples basis, we estimate that  
23 the MH16 net income would be \$750 million worse over  
24 the eleven (11) year period if both comparisons had  
25 the same in-service date for Keeyask.

1                   Taken altogether, the net income  
2 deterioration between MH15 and MH16 is in the order of  
3 \$1.8 billion or 300 percent. We've seen a lot of  
4 Intervenor evidence that there's been no  
5 deterioration. There's just simply no basis for that  
6 assertion. The numbers are stark and the conclusions  
7 inescapable.

8                   Slide 44, please. Net income is only  
9 part of the story. First, I want to differentiate  
10 between the net income we've reported and what I would  
11 regard as normalized income. And perhaps in the  
12 interest of time, I'll -- I'll try and skim over this  
13 a lot more quickly, but we -- at the top of the chart  
14 you can see our -- our net income; that being -- the  
15 net inc --income attributable to Manitoba Hydro over  
16 the last three (3) years and -- and forecast for 2018.

17                   In 2017, we had a nonrecurring gain  
18 which when you come to think about your normalized go  
19 forward net income, you need to -- to look at those in  
20 a certain way. This is, I fear, kind of losing the  
21 plot here a little bit on -- on some accounting nuance  
22 but there is a phenomenon of sorts that occurs under  
23 the accounting policies that really has you  
24 capitalizing interest on the Bipole project at a  
25 higher rate than you're actually paying on the new

1 debt you incur which is -- we can spend as much time  
2 on this as the panel wishes but -- but it -- it really  
3 results in a bit of a phenomenon of taking out of your  
4 interest expense more interest than you're -- you're  
5 adding to it in the form of the interest on your new  
6 borrowings and it creates a phenomenon of boosting  
7 income in -- as the project is -- is underway.

8           And -- and the reason the phenomenon  
9 exists is because interest rates have been declining  
10 over the course of the -- of the project. I hope I  
11 haven't lost everybody on that.

12           Above-average water, again, when it  
13 comes to what is sustainable, we think you need to --  
14 it's happened. It's great. It's in our retained  
15 earnings, and most importantly it's -- it's  
16 contributed to -- to mitigating debt growth, but  
17 assuming it's going to happen again is probably --  
18 probably not the right frame of mind.

19           And finally, we've got this adjustment  
20 to our current outlook in 2017 and '18 based on what  
21 we've seen happen year to date.

22           And finally, not to be left out, is  
23 we've been making -- not insignificant expenditures in  
24 this year and a touch last year in order to enable and  
25 implement the cost restructuring activities that are



1 underway at Manitoba Hydro and those won't repeat into  
2 the future and so we've added those backs.

3                   So when you kind of make those  
4 adjustments you -- you see a picture that goes from  
5 looking like you've made -- you're kind of rolling  
6 along making roughly \$300 million in aggregate over  
7 the last four (4) years to really a picture where, you  
8 know, on a normalized basis, you've lost in the order  
9 of \$100 million.

10                   Slide 45, please. Net income, and we -  
11 - we -- we talked about this before is not really the  
12 whole story. We need to care a lot about cash and  
13 cash flows, because we have to make sure we can meet  
14 all the ongoing annual payments the company needs to  
15 make to keep the business operating and meet our  
16 mandate.

17                   So why is net income so different from  
18 cash flow? I think Dr. Grant -- Board Member Grant  
19 got -- got to some of these questions earlier, but, to  
20 get to net income you -- you deduct an expense for  
21 depreciation and that's meant to be a proxy for the  
22 annual cost of all the capital assets you have  
23 employed to keep the business going and meet your  
24 customers needs.

25                   And depreciation expense goes into

1 revenue requirement. But depreciation expense is  
2 calculated based on historical cost. As Calvin  
3 mentioned, a lot of our assets date back to the 1950s  
4 and '60s, many more even further. So what we paid for  
5 those assets in, say, 1930 or 1950 or 19 -- in the  
6 1970s in the case of, you know, a big chunk of our  
7 generating plant is a lot different than what it cost  
8 to replace these assets using today's dollars as they  
9 fail or as they need to be replaced.

10                   This difference has been in the order  
11 of \$150 to \$200 million a year for -- for quite a  
12 while. We also have a big basket of payments we're  
13 committed to; many of them contractually so which  
14 barely impact our income statement and, therefore,  
15 revenue requirement. We talked about these: DSM,  
16 payments for mitigation, payments on liabilities, on  
17 past development, payments to the City of Winnipeg.  
18 All of these add up to roughly \$200 million a year.  
19 Some are increasing. A lot of them go on for a really  
20 long time, and others are perpetual. So we think we  
21 have to be thinking about these in any discussion of  
22 revenue adequacy.

23                   Slide 46. So this is, in a nutshell,  
24 our -- our cash flow problem, and again, turning back  
25 to the 3.95 percent rate path, you can see in the

1 chart on the left that over the next ten (10) years we  
2 would be kind of setting ourselves up to be cash flow  
3 negative running -- running the business every year  
4 except for one.

5                   On the right - and I'll just focus on  
6 the blue column which is the sum of all these points  
7 in the chart on the left - it's \$1.1 billion. This is  
8 how much we borrowed to run the basic operation over  
9 the next ten (10) years; meaning that the ratepayer of  
10 2027 will be saddled with an additional 50 or \$60  
11 million a year of interest, if not more, just to fund  
12 the debt this generation rang up by not paying the  
13 full freight. That's ignoring whatever comes of the  
14 \$25 billion in debt we will have done nothing to  
15 address over this next ten (10) years under the 3.95  
16 percent rate plan.

17                   Slide 47. Changing gears, we -- we  
18 wanted to flag equity ratio. It's received a lot of  
19 profile in these proceedings, and it should. We think  
20 it's important to set out in a financial plan -- set  
21 out on a financial plan with a clear view of where you  
22 are trying to get to. The rate increase trajectory  
23 clearly forms an integral part of that.

24                   Manitoba Hydro has traditionally  
25 focused on three (3) financial targets. I will say,

1 having spent really my entire career analysing  
2 companies and markets, that a debate about what  
3 financial targets are best is really going to be quite  
4 difficult to resolve. There are literally dozens of  
5 metrics each with their proponents, each with their  
6 merits, each with their limitations.

7                   And frankly, for all the blinding pages  
8 of numbers - and I'm guilty of showing you more today  
9 - there's considerably more art than science to a lot  
10 of this. The people I've seen do better at making  
11 complex decisions, managing businesses or investing  
12 are the ones who don't let a spreadsheet override  
13 common sense and accumulated wisdom.

14                   So with that caveat, we thought it was  
15 important to maintain some consistency with the  
16 metrics the Company has reviewed with this Board in  
17 the past, and obviously reports on regularly.

18                   Of our three (3), in our view, the  
19 equity ratio is by far the best indicator of whether  
20 we are making progress on rate adequacy,  
21 sustainability and risk. The real issue and Morrison  
22 Park in their review touches on this too, is that our  
23 capital coverage and interest coverage ratios are  
24 incomplete. They don't capture all of the cash  
25 burdens facing Manitoba Hydro, even excluding the

1 impacts of Keeyask or the US tie-line and that's a big  
2 issue.

3                   More importantly, equity ratio works  
4 because its inverse is an indicator of debt and debt  
5 is our central problem. But perhaps I'd just like to  
6 take a minute to touch on what equity is and what it  
7 is not. It's not cash. It's really important. It is  
8 not cash. It's not a cash reserve. It's not a rainy  
9 day fund squirreled away that we can draw from to  
10 mitigate rate impacts during a drought or other  
11 adverse event.

12                   When those things happen if we do not  
13 have income or cash flow at that time, we will be  
14 borrowing yet more money or raising rates, or both, to  
15 fund our business. Equity represents debt avoided.  
16 But for Manitoba Hydro, it's the historical  
17 accumulation of net income dating back to our  
18 inception. Almost all of our equity was generated  
19 before 2009. Most of what has been created since is  
20 thanks to consecutive years of high water conditions.

21                   Without income and cash flow an equity  
22 balance is not a great deal of help to a company.  
23 Like Manitoba Hydro, when things go bad; rather, we  
24 will be glad to not be in so much debt, which is what  
25 this ratio helps tell us.

1                   Slide 48. But our equity ratio is  
2 inextricably linked to cash flow. Interest is our  
3 largest expense and extends its lead by a lot as  
4 Bipole and then Keeyask come into service. The higher  
5 our equity ratio, the lower our debt and the lower --  
6 lower debt ratio and the lower our debt, all of which  
7 lead to lower interest payments and lower cash  
8 burdens.

9                   When you target an equity ratio and set  
10 your plan accordingly, you're really targeting a net  
11 income and a cash flow level. An equity ratio is the  
12 end result. It is the end product of making an  
13 adequate amount of net income and thus paying off some  
14 debt.

15                  When we speak of reserves, this is what  
16 we are talking about; a plan that includes provisions  
17 for reserves like our governing legislation says  
18 should be considered in rates, so we can cushion  
19 against the unforeseen and over time pay down some  
20 debt.

21                  Slide 49. The suggestion that debt  
22 markets don't care about equity ratio is simply  
23 inaccurate. Equity ratio is a good proxy for overall  
24 debt levels. Investors care very much about that.  
25 Markets and rating agencies, bond investors understand

1 the inherent relationship between equity ratio and  
2 cash flow and all of the other metrics that one (1)  
3 analyst might personally prefer over another.

4 But regardless of the credit markets,  
5 we should all care about debt levels, as they are  
6 what, if we turn our back on it, will continue to  
7 inflate a huge risk of rate volatility, and overall  
8 higher rates for our customers in the long run.

9 Slide 50. This is just a final slide  
10 to demonstrate the relationship between equity ratio  
11 and cash flow. As you can see as equity ratio climbs  
12 and that's the solid black line in our plan, the blue  
13 bars of interest expense under our plan fall; that's  
14 the cash flow. Taking the 3.95 percent path as equity  
15 levels drop interest rises because the debt is higher.

16 Slide 51. I spoke about this already,  
17 so in the interest time I'll pass over this slide, but  
18 our other two (2) traditional ratios have some  
19 shortcomings. The biggest being is they seek to  
20 represent the adequacy of our cash flows, but don't  
21 actually incorporate all of our cash needs.

22 Slide 52. I'll perhaps spend a minute  
23 on EBITDA which stands for earnings before interest,  
24 tax, depreciation and amortization, which is one of  
25 our metrics and appears at least by virtue of my read

1 of Morrison Park's evidence to be the one (1) they  
2 favour. Some say EBITDA. I say EBITDA. It's not a  
3 gap or IFRS figure. You won't find it on a financial  
4 statement. But a lot of investors and analysts use  
5 EBITDA as a pretty good proxy for the cash flow you  
6 have after you've paid your operating expenses. It's  
7 what you have left over to pay your interest costs,  
8 pay your capital expenditures, pay dividends, and pay  
9 down debt.

10 EBITDA to interest ratio just looks at  
11 whether we have enough EBITDA as a proxy for cash flow  
12 before debt service and capital needs to make all of  
13 our interest payments. From my point of view, we need  
14 to be cautious in how we use this ratio. We know that  
15 we have more payments to make than just our interest  
16 costs. We have to fund system capacity and renewal.  
17 We've had a pretty steady \$500 to \$600 million a year  
18 that we need to invest to continue to maintain and  
19 increase the capacity of the current system to meet  
20 our customers needs and to support our revenue  
21 projection.

22 We have all of these other costs like  
23 mitigation and other liability payments that really  
24 don't hit our income statement and, therefore, our  
25 EBITDA. For an electric utility in the very short



1 term, we can probably move some things around but at  
2 the end of the day these expenditures are not  
3 discretionary. When elements of the system wear out  
4 and fail, which happens every day, we have to replace  
5 them or we are not meeting our commitments to  
6 Manitobans. More simply, without the assets in good  
7 working order, we can't even generate all the revenue  
8 that leads to this EBITDA.

9                   Finally, if we cut corners on investing  
10 in our system because we don't have the cash flow  
11 invariably the cost of replacement go up as instead of  
12 proactively making repairs, replacements and upgrades,  
13 we're doing it on an emergency basis, which cost more.  
14 So EBITDA to interest is informative but it's not a  
15 complete picture becau -- because it does not tell you  
16 whether you have enough cash to continue to run your  
17 operation, and therefore, it does not tell you if your  
18 debt is going up or going down.

19                   Slide 53. Lots of numbers.  
20 Nonetheless, we have these three (3) targets and the  
21 3.95 percent rate path fails to meet any of them over  
22 ten (10) years. In fact, we have to keep marching on  
23 the 3.95 path until 2030 before we meet the EBITDA to  
24 interest target and 2036 for the equity target. As  
25 you can see and these are the red figures, the 3.95

1 percent rate path noted as MH15 rates applied to our  
2 current projections do not meet our minimum levels and  
3 alarmingly generally show a declining trend over time;  
4 meaning the financial situation is getting weaker, not  
5 stronger with the passage of time, notwithstanding ten  
6 (10) years of compounding 4 percent rate increases.

7           You can also see that our plan reflects  
8 restoring equity to 25 percent over ten (10) years and  
9 by extension, and this is down at the bottom, lowering  
10 debt by 4 billion over the 3.95 percent path. While  
11 imperfect, the other two (2) ratios are comfortably  
12 met. This should not be unexpected, given an  
13 essential element of this plan is to accelerate debt  
14 paydown, to derisk our balance sheet. In the longer  
15 term, we don't need to exceed these targets by as far.

16           I've added EBIT to interest on here.  
17 The difference between EBITDA and EBIT is depreciation  
18 and amortization. So EBIT reflects a charge to cash  
19 flow for the capital needs of the business and it uses  
20 depreciation as that proxy. I included it because  
21 Manitoba Hydro used to use this ratio with a minimum  
22 target of 1.2 times; meaning, Manitoba Hydro has  
23 enough earnings before interest cost to provide for  
24 all of those interest costs, plus a 20 percent  
25 cushion.

1                   Mr. Bowman of Intergroup on behalf of  
2 MIPUG points to this ratio as a critical test of rates  
3 sufficiency. We add it here for the reason to show  
4 that the 3.95 percent rate path Mr. Bowman argues is  
5 adequate grossly fails his own preferred test. If  
6 nothing else, this page demonstrates unequivocally  
7 that the 3.95 percent rate plan just doesn't work.

8                   Slide 54 and another busy one with lots  
9 of numbers. And I'm -- I'm introducing this for  
10 illustration but what we're doing is we're saying  
11 taking that EBITDA to interest ratio, and recognizing  
12 that the -- that we have this big basket of other  
13 expenditures we have to make that aren't really all  
14 that discretionary, we have to pay them just like we  
15 have to pay our interest. So if we put that alongside  
16 interest and the denominator of the EBITDA to -- to  
17 interest calculation, a little -- are called the whole  
18 -- pile of that are cash burdens. And you can see  
19 that, again, EBITDA is again is a proxy for cash flow.

20                   You can see and -- and -- and you'll  
21 see credit analyst will -- will look at a ratio like  
22 that, sometimes you see derivatives called free cash  
23 flow to Capex or funds from operation to Capex,  
24 there's lots of names and lots of things that  
25 sometimes are included here and there or not included.

1 Again, there's some art more than science, but you can  
2 see that even under our financial plan, we are less  
3 than one (1) time for the next year -- next few years  
4 and barely above that for the next two (2) after that.

5                   So we still have -- we're still cash  
6 flow negative in the early years, inspite of 7.9  
7 percent rate increases. This is consistent with our  
8 argument that we are cash flow negative right now,  
9 even putting to the side the major capital projects.  
10 Over time, you see we build up to having a good but  
11 not extravagant cushion, considering the size of our  
12 business.

13                   This is the source of the cash we need  
14 to deleverage our balance sheet. By comparison, the  
15 MH15 rate plan leads to inade -- inadequate cash  
16 flows, increasing leverage and a declining financial  
17 profile.

18                   Slide 55. Debt keeps going up. Mr.  
19 Bowman's evidence provided a version of this graph  
20 which we needed to update a little bit to correct some  
21 of the data, but inexplicably it is used as an  
22 argument that there's been no deterioration in the  
23 financial profile of Manitoba Hydro because our debt  
24 is tracking along the path established at NFAT.

25                   In fact, you can see our debt balance

1 is unavoidably going to track materially above the  
2 sensitivity range established at NFAT for the Keeyask  
3 development plan. Those are those dotted yellow lines  
4 that you see right at the top over the shaded blue.  
5 The shaded blue is the range of potential debt under  
6 the NFAT scenario.

7                   If we stick to the 3.95 percent rate  
8 plan, our debt will climb to \$25 billion and plateau.  
9 That little purple line that you can kind of see  
10 extending is an NFAT scenario that included building  
11 Conawapa. So, in other words, if we continue to  
12 follow the 3.95 percent rate plan we're headed to a --  
13 to a debt level consistent with -- with a plan that  
14 also included being well along with building Conawapa.

15                   There's just no conclusion but that our  
16 business outlook and financial profile has massively  
17 deteriorated.

18                   Finally, one (1) last demonstration of  
19 that. We talked about EBITDA. We talked about how  
20 there are lots of credit ratios you see used.

21                   Next slide 56, please. Another is debt  
22 to EBITDA. It's another way of looking at how much  
23 debt your cash flows is -- is expected to service.  
24 Ratios of six (6) and seven (7) times are often  
25 considered highly leveraged and are associated with

1 very low credit ratings, like BB or CCC; that's pretty  
2 close to the last stop on the scale. The last stop is  
3 D, which means you're in default.

4           In my former career we called debt of  
5 this quality noninvestment grade or high-yield. It's  
6 known more colloquially -- colloquially as junk. So  
7 we can see here our debt to EBITDA has been steadily  
8 climbing, even since before the start of our major  
9 bill program. You can see that if we follow the 3.95  
10 percent rate path, that's the top line, we will touch  
11 almost fourteen (14) times. We're about double the  
12 level of BC Hydro and we'll stay there.

13           Over to the left you see our debt to  
14 EBITDA ratio when we lost over \$400 million during a  
15 drought; just over eighteen (18) times. So we're  
16 talking about building debt to a level directionally  
17 consistent with the temporary level we reached during  
18 a drought, a time after which this Board was so  
19 concerned about our financial condition that it gave  
20 us a higher rate increase than we applied for and  
21 having be our steady-state.

22           MR. KELVIN SHEPHERD: Slide 57. I  
23 want to spend a bit of time talking about the province  
24 of Manitoba. They're a critical stakeholder on  
25 several fronts and the Manitoba Hydro Electric Board

1 and Hydro Management, together with the Public  
2 Utilities Board have to consider their interests.

3           It's accepted doctrine that our  
4 customers must bear the full cost of operating the  
5 system. Our governing legislation says so. This  
6 Board has previously said so.

7           The relationship with the province is  
8 well defined and understood. The province is our  
9 owner, but does not receive any return on investment  
10 in Manitoba Hydro. There is no dividend policy and  
11 our rates are not set on the basis of generating a  
12 rate of return for anyone.

13           I'm also not suggesting anything should  
14 change in this regard. And, in any event, that's a  
15 public policy issue, not a Manitoba Hydro management  
16 issue. However, this alone has been a huge positive  
17 factor contributing to the low electricity rates  
18 Manitobans enjoy. If one wanted to provide for a rate  
19 of return on a balance sheet our size, I believe rates  
20 would need to be 30 or 40 percent higher to do so.

21           The province of Manitoba is also, in  
22 some ways, our banker by guaranteeing our debt  
23 directly or borrowing on our behalf and advancing it  
24 to us, we are afforded the same access and costs in  
25 global credit mark -- markets as the province. This

1 is enormously valuable to our customers. With our  
2 current balance sheet, on a standalone basis, it's  
3 quite unlikely we could borrow the \$13 billion we need  
4 over the next five (5) years, at any interest rate.

5           Our credit profile on its own would be  
6 enormously more expensive than the interest rates we  
7 enjoy by utilizing the provincial guarantee. Even if  
8 we could get the money, companies with credit profiles  
9 like ours pay at least double for that -- for us that  
10 would be an additional \$1 billion more per year.

11           In other words, the relationship with  
12 the province is a good deal for Manitoba Hydro's  
13 customers, but more importantly, it is the deal. As a  
14 consequence, there are a few things we are not allowed  
15 to do. We cannot wilfully threaten or impair the  
16 credit standing of the province of Manitoba. The  
17 evidence so far has produced a nuance debate over  
18 whether Manitoba Hydro at this moment is or isn't  
19 self-supporting or at this moment is or isn't  
20 affecting the province's credit spreads right now.

21           There is no clear answer. Both sides  
22 of the debate can pull a quote from a rating agency to  
23 defend the point of view. From my perspective the  
24 view on whether Manitoba Hydro is self-supporting  
25 really boils down to a belief on the part of the



1 rating agencies and debt investors that electricity  
2 rates will be increased when and to the degree  
3 required to virtually eliminate the likelihood the  
4 government in Manitoba feels it must take action.

5                   In Manitoba Hydro's view, we have  
6 clearly reached a point where the old financial plan  
7 has failed and so, therefore, continuing on the rate  
8 path associated with that old financial plan is going  
9 to be very difficult for capital market participants  
10 to have confidence in.

11                   Ultimately, the answer to that question  
12 isn't what is at issue. As we've discussed today,  
13 what is principally at issue here is that Manitoba  
14 Hydro has too much debt and must take more aggressive  
15 action to come to terms with that. This would be the  
16 case whether the pro -- whether the province appeared  
17 headed for a credit rating upgrade or a credit rating  
18 downgrade.

19                   What is clear is that capital market  
20 participants are important. They're concerned and  
21 they are paying attention to this rate case and the  
22 next steps we take. Credit ratings and credit  
23 standings are in some ways like reputations. There's  
24 no definitive right line test of where you're going to  
25 lose people's trust and confidence but once it's gone,

1 you're in a really hard place.

2                   So let's be clear, regardless of what  
3 happens in this rate case, we are continuing on a path  
4 that will see our debt balloon to levels which are  
5 multiples of where it has been relative to the size of  
6 our business.

7                   However, without strong rate action we  
8 will be continuing on a financial plan that has us  
9 building to \$25 billion in debt while generating  
10 almost half a billion in net losses and 1 billion in  
11 negative cash flow on core operations.

12                   The thought that this won't eventually  
13 catch up with us, with how investors view the  
14 province, is kind of an enormous leap of faith. We're  
15 not allowed to drive the province's borrowing costs  
16 up. It's not our deal with them, and it most  
17 certainly is not what the debt guarantee fee is meant  
18 to compensate for.

19                   Manitoba Hydro customers should care  
20 about this too. The province's cost of debt is our  
21 cost of debt which directly impacts electricity rates.  
22 Our principal concern should be that we just have too  
23 much debt, and thus are extremely exposed to interest  
24 rate movements, whatever their cause.

25                   But why would we exasperate this by

1 risking further pressure on the province's rating  
2 without -- which we couldn't remotely afford this debt  
3 and these electricity rates. Beyond that, we  
4 shouldn't allow ourselves to. It's not the deal we  
5 have with the province.

6           Secondly, the end game for not dealing  
7 with our balance sheet is clear, so let's be candid  
8 about it. At some point, if we're not careful or  
9 lucky or both, something bad is going to happen in  
10 terms of the risks inherent in this business that is  
11 going to necessitate taking emergency rate action.

12           We have seen in other jurisdictions  
13 where the scale of rate increases needed to deal with  
14 the cost of the electricity system are beyond what the  
15 government feels customers can absorb. What really  
16 happens is governments of the day, as Ontario has  
17 demonstrated, conclude that the rate increases are  
18 more than the government can tolerate. It becomes a  
19 political issue at a minimum and potentially an  
20 economical one.

21           The solution has often been to have the  
22 taxpayer step in to provide relief against the  
23 required rate increases. This is wholly inappropriate  
24 as an outcome for Manitoba Hydro. We cannot be  
25 allowed to inflate our debt until this becomes a real

1 risk for Manitoba's taxpayer and it -- it just isn't  
2 our deal with the province.

3 Slide 58. We believe it's important to  
4 act now. We spoke earlier about the impact of the  
5 August 2017 interim rate. In order to keep to a ten  
6 (10) year plan that 3.36 percent first-year interim  
7 rate increase puts -- push the aggregate ten (10) year  
8 increases from 60 percent to 77 percent.

9 So it's important to take strong and  
10 appropriate action now to preserve the future. The  
11 following few slides help make this clear.

12 On this chart you can see the blue  
13 dotted line is our proposed rate profile. If instead  
14 of 7.9 percent on April 1st, 2018, the rate increase  
15 is 3.36 percent -- again, you can see that it will  
16 then take eight (8) consecutive years of 8.25 percent  
17 rate increases, totally a hundred and one percent or  
18 24 percent higher than in our plan just to get to the  
19 same place.

20 If for April 1st, 2019 the rate  
21 increase were to be another 3.36 percent, the  
22 compensating rate increase to reach a 25 percent  
23 equity target by 2027 would need to be 9.6 percent per  
24 year each year for seven (7) years.

25 Slide 59. Another way to look at the

1 importance of acting now is the value of having taken  
2 action today if things go wrong. On this chart we  
3 show the comparison of the impact of a five (5) year  
4 drought starting in 2022/23. Under our plan, all else  
5 being equal, no compensating rate action would be  
6 required. Obtaining our 25 percent target equity is  
7 delayed by only two (2) years.

8                   However, if we continue to march  
9 forward with the old plan, that is the 3.95 percent  
10 path, our equity is headed for 10 percent in 2027 and  
11 a scenario where our forecasts is exactly right and  
12 water conditions are averaged throughout. A drought  
13 knocks our equity to 5 percent in 2027. Even to  
14 recover to 10 percent would need four (4) years of 10  
15 percent rate increases. We would arrive at the end of  
16 ten (10) years with 6 percent higher electricity rates  
17 then under our plan, a still severely undercapitalized  
18 utility and a long march still ahead of us to address  
19 that.

20                   Slide 60. Finally, while Keeyask is  
21 clearly a fiscal challenge for the Corporation, right  
22 in front of us is Bipole III. We discussed this at  
23 the interim hearing in July. The only thing that has  
24 changed is we are now roughly nine (9) months away  
25 from bringing this asset into service. When we do it

1 will begin bringing roughly \$350 million of additional  
2 costs through our income statement where today we are  
3 essentially breakeven. We do begin to realize the 11  
4 percent or so that is in our rates today but being  
5 allocated to the Bipole III reserve. But that only  
6 addresses just over half of the gap.

7                   This is the last rate increase before  
8 Bipole III comes in to service and what we have  
9 requested will still leave us roughly 30 million short  
10 of covering the incremental costs.

11                   Slide 61. Our rate increase is 7.9  
12 percent for April 1st, 2018. It's an essential first  
13 step to address the fact that Manitoba Hydro's debt is  
14 on a path to grow to completely unsustainable levels.  
15 It's a first step to building reserves in the form of  
16 a plan for income and cash flow that provide actual  
17 protection against known risks. Risks like rising  
18 interest rates, disappointing export prices, anemic  
19 load growth, subaverage water conditions, let alone  
20 drought and capital cost increases. Risks we've seen  
21 before and can reasonably expect will occur again.

22                   This first rate increase is amply  
23 justified simply by our current circumstances. It  
24 would only -- it would cover only roughly 60 percent  
25 of the forecast cost deficiency in the last test year.

1 On a cash basis, we believe current rates are too low  
2 by 15 to 20 percent. This rate increase is still not  
3 enough just to cover the incremental costs of Bipole  
4 III, which is imminent.

5 Slide 62. So we believe it's essential  
6 that we start on this path and continue. As a  
7 forecast matter we simply cannot build a rate strategy  
8 based upon targeting zero net income. Manitoba Hydro  
9 will be -- shortly be a \$30 billion asset at book  
10 value, and one that is highly leveraged. We are  
11 leveraged to debt, to water conditions, to export  
12 market conditions and to capital costs.

13 One cannot prudently run this kind of  
14 business with a goal of zero net income. You have to  
15 plan to make enough income on a regular basis, so that  
16 you don't need to take drastic action when you don't  
17 have that net income.

18 We need to be clear on what reserves  
19 mean. Intervenors will point to our equity balance  
20 and say it's roughly \$3 billion; that's plenty. That  
21 position represents a fundamental misunderstanding and  
22 naivety about what equity is and what it does for you.

23 As Jamie discussed, we're targeting a  
24 return to a 25 percent equity ratio. The point of the  
25 equity target is to get our absolute debt levels down.

1 The equity ratio is the end product. It's the result  
2 of following a financial plan where we generate  
3 positive net income and positive cash flow so that we  
4 can pay our debt down to more sustainable but hardly  
5 low risk levels.

6 Equity in and of itself does nothing  
7 for you. This is particularly the case when almost  
8 all of our equities is derived from cumulative  
9 earnings generated more than ten (10) years ago. Even  
10 more recently, the entirety of the growth in our  
11 equity has been a byproduct of unexpected profits  
12 owing to near record water conditions over the last  
13 several years.

14 Equity is not cash. This is essential  
15 to understand. Equity is not a store of cash that we  
16 can use to mitigate rate increases when bad things  
17 happen. The only cushion to absorb unforeseen events  
18 and risk without having to raise rates even more  
19 and/or borrow yet more money is having rates at  
20 sufficient levels where your generating income and  
21 cash flow. And as we make clear, the old plan with  
22 its 3.95 percent rate path comes nowhere near close to  
23 doing this for us.

24 Without this cushion when adverse  
25 events occur, the only choices available are to



1 increase rates, potentially a lot, or borrow more  
2 money. We should not and cannot as a planning matter  
3 knowingly put ourselves in that position.

4                   Slide 63. I've covered a lot of this  
5 slide, but really the only path we have to create the  
6 reserves we need in the form of expectations of income  
7 and positive cash flow is through higher levels of  
8 rate increases. If we do this, then things should go  
9 -- and then things should go better than planned or  
10 risks not come to fruition, by reducing our debt we  
11 will have enabled a larger range of attractive  
12 options.

13                   Rates will be more stable and  
14 predictable. Rates won't need to be immediately --  
15 respond to negative events. Longer term rates may  
16 even be able to go down. If our concern is the long-  
17 term health of our customers and the economy, and it  
18 should be, what we have proposed in our plan is the  
19 right path.

20                   Finally, we need to keep emphasizing  
21 that we have to start now to get ourselves on the  
22 right trajectory. With the full benefit of hindsight,  
23 Manitoba Hydro should have acted sooner in asking for  
24 different rates. Let's not make that mistake again.  
25 We need to start being more defensive. We can no

1 longer rely on hope as our planning criteria.

2                   In this hearing we are talking of  
3 approving one (1) rate increase, at most two (2), I  
4 think, if the Board wishes to revisit last summer's  
5 interim rate; fully understanding there's the interim  
6 -- the previous interim rate but we're -- we're really  
7 talking about 2018.

8                   And we need that to get us on the right  
9 path. We do need a commitment to restoring our  
10 balance sheet but the exact path really can't be known  
11 today. It can be adjusted going forward as  
12 circumstances warrant. But what is for sure, if  
13 something goes wrong in our plan and let's be clear,  
14 there are plenty of risks in the plan, we are not  
15 going to be able to go back in time to revisit today's  
16 choices.

17                   Slide 65. I think we may make your  
18 timeline, Mr. Chair. I'm working on it. We wanted to  
19 touch on a bit of history. The reason we do this is  
20 that informs a lot of the decisions we have in front  
21 of us and the risks and realities, we have to come to  
22 terms with. And so the question -- I know people ask  
23 us: How did we get here?

24                   First off, electricity export prices  
25 collapsed after 2008. Export sales were and still are

1 a major credit to the total cost of domestic  
2 electricity that are borne by domestic ratepayers.  
3 The value we're getting for our excess water has  
4 diminished substantially and really has remained, you  
5 know, frustratingly stagnant at lower price levels.

6           An unprecedented streak of above-  
7 average water has obscured the damage that these lower  
8 export prices have -- have caused. Domestic rates  
9 have never properly adjusted to the decline in the  
10 export business which unchecked is going to expose a  
11 huge issue should water levels simply normalized or be  
12 below average. As a result, we missed a great  
13 opportunity to add to our reserves and avoid more debt  
14 by taking advantage of many, many years of excellent  
15 water conditions which should have been used to boost  
16 net income.

17           As we discussed our outlook for growth  
18 in Manitoba consumption has dropped significantly.  
19 Being in the electricity business is expensive. A lot  
20 more expensive than it used to be. By only allowing  
21 for effectively net zero income or low income levels,  
22 we've been recovering in rates based upon the  
23 historical cost of our assets, the bulk of which are  
24 quite old but we have to sustain and enhance these  
25 assets in cur -- current dollars. The gap as Jamie

1 has talked about is a couple hundred million dollars a  
2 year.

3                   The economics and business case for  
4 Keeyask has eroded. Many of the risks previously  
5 exhaustively reviewed have come to present themselves;  
6 lower export prices, lower load growth, and higher  
7 construction costs. Keeyask is now going to be a drag  
8 on net income well into the 2030s, if not longer.

9                   Bipole III is an enormous necessary  
10 asset for system reliability but its cost is one which  
11 are old financial plan did not properly allow for.

12                   Slide 66, I'll turn it over to Jamie.

13                   THE VICE-CHAIRPERSON: Sorry, Mr.  
14 Shepherd, can I just -- it must be getting late in the  
15 day, can you just go over that point again about, you  
16 didn't take advantage of high water conditions by  
17 making contributions to reserves. How could you, in  
18 fact, have done that differently?

19                   MR. KELVIN SHEPHERD: Yes, well, if  
20 you go back and we've -- we've mentioned this for --  
21 we've had 13 -- or we're into our 14th year  
22 potentially of above-average water conditions. If  
23 those had been treated as an opportunity to  
24 essentially add to net income, in other words, if we  
25 had raised domestic rates even slightly during that

1 timeframe and used that -- call that windfall of  
2 excess water to lower our debt or build equity,  
3 depending on how you want to perceive it, two (2)  
4 things would've happened. We would be in a stronger  
5 position financially and rates -- domestic rates would  
6 have been increased more appropriately over the last  
7 decade than they have been.

8                   Instead, I think our target of having a  
9 very modest net income or even zero net income and  
10 using those above-average water conditions as a way to  
11 -- to achieve that, it's a -- it's a lost opportunity.  
12 It's unfortunate because you can't go back, but that's  
13 the point I was trying to make.

14                   THE CHAIRPERSON: Mr. Shepherd, going  
15 back to your earlier point, if your starting point is  
16 4 percent and everything falls in to that, isn't that  
17 -- isn't that the trigger? If your starting point is  
18 that we're not going to have interest rates more than  
19 4 percent, then the -- then the excess water is sort  
20 of a blessing.

21                   MR. KELVIN SHEPHERD: Yes, I -- Mr.  
22 Chair, so, you know, my comment that really coming out  
23 of the decision to go ahead with these major projects,  
24 there is a decision that rates could not increase more  
25 than 4 percent, that is a limiting factor.

1 THE CHAIRPERSON: Yes.

2 MR. KELVIN SHEPHERD: But I would  
3 argue, if you go back further than that and go back to  
4 the ten (10) years before that, there was substantial  
5 opportunity and lost opportunity by Manitoba Hydro to  
6 increase domestic rates only modestly and build a much  
7 stronger capital position before entering into those  
8 major capital projects.

9 It's a different view. I understand  
10 that, a different judgment and, quite frankly, I have  
11 20/20 hindsight. But I would argue that it's a missed  
12 opportunity. You -- you can't get back those years  
13 where, you know, those higher export prices and higher  
14 water levels could have, you know, substantially  
15 strengthened the Company's balance sheet.

16 THE CHAIRPERSON: Thank you.

17 MR. JAMES MCCALLUM: Slide 66, please.  
18 These -- these will be just some quick slides to build  
19 on what Calvin describes.

20 This chart shows our net plant in  
21 service, our property, plant and equipment, less  
22 accumulated depreciation in the blue bars, and you can  
23 see building from about just under 8 billion in 2008.  
24 It's in the right axis you can see the -- the index  
25 there. Building to about 12 billion at last year end

1 in March.

2                   Meanwhile, our net income has dropped  
3 from \$350 million in 2008, to \$51 million in 2017  
4 which is really 31 million if you take out that one  
5 time land sale gain which I believe you should. I  
6 note these -- the numbers in these chart -- in this  
7 chart have been adjusted to make an apples-to-apples  
8 comparison for the impact of accounting changes.

9                   So even before we start talking about  
10 the major capital projects, our assets have gone up  
11 over 50 percent while our net income has fallen by 90  
12 percent. This is what Calvin talked about in terms of  
13 that missed opportunity.

14                   During this time every single year  
15 enjoyed above-average water conditions, and in the  
16 main, falling interest rates.

17                   Slide 67. Calvin spoke to domestic  
18 rates not adjusting to the drop-off in our export  
19 market pricing. Here you can see that from 1994 to  
20 today, Manitoba Hydro's rates have at least until very  
21 recently tracked well behind inflation. The rate  
22 path -- this is all indexed to 100 in 1994, is the red  
23 line at the bottom. Manitoba's consumer price index  
24 is that middle blueline.

25                   I think importantly an index of

1 construction costs, which is an important factor  
2 driving our cost structure, given our asset intensity,  
3 as of late been substantially outpacing inflation.

4 Slide 68, please. So interest rates  
5 have been dropping which have really saved the day up  
6 until now -- for now. Our situation with an  
7 additional 3 or 4 percent per year of interest expense  
8 would be particularly dire. We would be wilfully  
9 ignoring history and, in my view, common sense to at  
10 least not factor in the possibility that interest  
11 rates can go up.

12 Slide 69. Even with the declining  
13 interest rates, as Mr. Bowman points out in his  
14 evidence, which we've reproduced here, our cost of  
15 debt, interest and the debt guarantee fee, is  
16 increasing at a rate substantially greater than  
17 inflation and it just takes off as these major  
18 projects conclude and the interest expense on Bipole  
19 III and Keeyask enter our income statement.

20 Notwithstanding lower interest rates,  
21 we're seeing a near tripling of interest cost per  
22 kilowatt hour of load. So the proportion of each  
23 kilowatt hour rate being dedicated to interest costs  
24 is really exploding and, again, this is at a time when  
25 interest rates sits at levels not seen since the Great



1 Depression.

2 Slide 70. Back to NFAT and past plans  
3 blows a chart of net costs, being all of the costs on  
4 the income statement less export revenues and per  
5 kilowatt hour of domestic load. As you can see by the  
6 red dotted line, our current outlook and using the  
7 3.95 percent rate plan, leads us to a net caught --  
8 cost position per kilowatt hour and our rates are  
9 charged -- well, in part in kilowatt hours, it is far  
10 above what we projected under MH14 or MH15.

11 Probably of more concern is we are on a  
12 path that will take us from just over \$0.06 cents per  
13 kilowatt hour this year to over \$0.10 by 2024 when  
14 Keeyask is fully on stream. So we're talking about a  
15 65 percent increase in net unit costs.

16 The 3.95 percent rate plan produces a  
17 30 percent increase in rates over that time. So while  
18 our unit cost goes up 65 percent, our rates are going  
19 up 30 percent. This doesn't work.

20 Slide 71. Looking further at net cost  
21 versus rates -- and this is another index chart dating  
22 back to 2000 as a base of 100. You can see that our  
23 rates, and that's the dotted line, have increased at a  
24 much lower pace than our net unit costs from 2000 to  
25 2017; that's part of our problem today. Today's rates

1 haven't kept pace with the increasing net cost of the  
2 operation. This is what we mean when we say we don't  
3 believe that the -- the -- the current ratepayers is  
4 paying for the full cost of the system.

5 In fact, last week, Moody's released a  
6 new report on Manitoba Hydro wherein they state:

7 "While rate increases are nominally  
8 set on a cost-of-service basis rate  
9 increases in recent years have  
10 clearly not kept up with the costs,  
11 as evidenced by ongoing week  
12 financial metrics." closed quote.

13 Slide 72. This chart extends this  
14 analysis to look at the future. The dotted lines are  
15 two (2) alternate rate plans. Our proposed financial  
16 plan and the 3.95 percent plan beneath it. The dark  
17 solid line is the progression of net costs under our  
18 plan while above it is the same under the 3.95 percent  
19 plan.

20 So the 3.95 percent plan would see us  
21 not closing this gap between the progression of costs  
22 and rates, but rather widening it. Our plan doesn't  
23 close the gap either, but it at least keeps it from  
24 widening and in doing so, funds a reduction of debt  
25 that allows us a significantly higher probability of

1 lower and more stable rates in the long run.

2 MR. KELVIN SHEPHERD: Were nearly at  
3 the end. We did want to talk to some key concerns.  
4 I've heard these from customers, employees and other  
5 stakeholders. I somewhat joke that I think that --  
6 Free Press, I can't go to the Co-op without running  
7 for -- down the aisles with my groceries so.

8 Certainly people are interested in this  
9 and -- and I've heard these concerns. You know, first  
10 people often believe that because Manitoba Hydro makes  
11 a positive net income, 33 million, 37 million, 30  
12 million, take your -- take your pick, things are fine  
13 and no rate increases are warranted.

14 We've talked extensively today about  
15 why that is just not the case and why substantially  
16 higher levels of net income are absolutely required to  
17 address our increasing levels of debt and provides  
18 sufficient cash to meet operating requirements.

19 Some stakeholders will say that rates  
20 must be kept low. They're opposed to the idea of rate  
21 increases probably including the previous plans 3.95  
22 percent increases, which by the way, results in even  
23 higher rates over the longer term than our new plan  
24 would provide for.

25 It's a fact that rate increases are

1 needed to support Manitoba Hydro's debt. I believe  
2 our economy and our customers are better served by a  
3 realistic plan that creates longer-term certainty and  
4 stability. Some stakeholders believe that stopping  
5 Bipole III and Keeyask would solve the problem and  
6 reduce or eliminate the need for rate increases.  
7 Together with the Manitoba Hydro Electric Board, we  
8 examined potential options; stopping or delaying these  
9 projects. And I can tell you that those courses of  
10 actions are worse economically and would result in  
11 huge costs without any functioning assets able to  
12 deliver operational benefits or, in the case, of  
13 Keeyask incremental revenues.

14           Slide 75. It's common for people to  
15 tell me that Hydro just has too many people, too much  
16 management, we should cut our costs and not raise  
17 rates. As I've previous outlined we're taking action  
18 in costs and that includes streamlining the company,  
19 reducing executive management, accelerating staffing  
20 reductions. However, I must also ensure this company  
21 can deliver on its mandate as safe, reliable energy  
22 service for Manitobans. It takes people, operating  
23 expenditures and sustainment capital to do that.

24           Fundamentally, this is not an operating  
25 problem. It's a capital structure -- structure and

1 debt level issue that can only be addressed by taking  
2 action to generate enough net income over time to  
3 reduce the amount of peak debt and provide the  
4 required cash flow and net income to restore Hydro's  
5 balance sheet to a more sustainable level.

6           Some people believe that if you just  
7 raise the rates over a longer period of time it has  
8 less impact. I don't believe that. I don't think the  
9 numbers support that. Taking longer to address the  
10 current issues Manitoba faces results in higher rates  
11 over the longer term, and exposes the Utility and its  
12 customers to a great deal more risk for a longer time  
13 frame.

14           You'll hear from Intervenors,  
15 individual customers and other organizations that low  
16 income customers cannot afford the proposed rate  
17 increase, and I empathize with these customers and  
18 groups. I know from personal experience there are  
19 many families who live with less than adequate  
20 resources, many individual groups and communities that  
21 suffer from poverty. I've been to many First Nations  
22 communities. I've met with the leaders and community  
23 members. I've listened to the Elders. I know there  
24 is a real problem, a real issue and that all of us  
25 should be embarrassed and perhaps even ashamed at the

1 living conditions that some Manitobans are in.

2 Manitoba Hydro does many things to help  
3 people in these situations, however, fundamentally, I  
4 believe the root cause of this problem is social  
5 policy and inadequate income. It's not directly  
6 electricity rates.

7 Under the legislation governing  
8 Manitoba Hydro, we're not allowed to set rates that  
9 differentiate by geography or density of population.  
10 This insures that a residential customer in Brandon  
11 pays the same cost per kilowatt hour as one in  
12 Winnipeg, one in a rural residence or one living in  
13 Thompson. I understand that a customer pays bills,  
14 not rates and the electricity bill for each customer  
15 is affected by whether they have access to lower cost  
16 gas heat, a home with better insulation, and whether  
17 there are two (2) people living in the home or three  
18 (3) generations.

19 Manitoba Hydro has engaged with  
20 stakeholders and bill affordability studies and will  
21 continue to work with customers, organizations and  
22 governments. However, the issue of low income, and  
23 customer's ability to pay is not something that I  
24 think can be fully resolved during this rate setting  
25 process. Jamie...?

1                   MR. JAMES MCCALLUM:    So we're going to  
2 hear lots, I think, we already have about how we  
3 should change the projections to justify lower rate  
4 increases. We will hear points of view that Manitoba  
5 Hydro has been too pessimistic in our forecasts;  
6 notwithstanding, having shown that over the last few  
7 successive forecasts we've appeared too optimistic in  
8 our views of export prices and low growth and capital  
9 needs on these major projects.

10                   Other ideas will be that we should use  
11 robust use of regulatory deferral accounts to take  
12 cost out of the income statement and move it on to the  
13 balance sheet. The reality is that projections are  
14 just that. They're our best view today of the future,  
15 but it's no guarantee. And we've run out of latitude  
16 to be wrong on this stuff.

17                   Making arbitrary changes to a forecast  
18 in support of lower rate increases is false security.  
19 It's not a good choice. Ultimately, as it comes to  
20 the test years or the years just thereafter more  
21 aggressive growth assumptions, if that's what one  
22 wishes to make, or better improvement in export  
23 prices, the signing of another long term contract, you  
24 can put those into the model, that doesn't make them  
25 happen.

1                   And -- and some of these assumptions  
2 candidly I think we're already starting to see signs  
3 of worry that the forecast that forms the backbone of  
4 our evidence here is starting to leak a bit of oil.  
5 We fell far short of our export price forecasts for  
6 this year.

7                   We're starting to see short-term  
8 interest rates creep up a little bit, and we've seen a  
9 project that represented 20 percent of our gross --  
10 gross -- growth in gross net load -- growth -- pardon  
11 me, it's been a long day, growth in gross load over  
12 the next ten (10) years fall to the wayside.

13                   So we'll also hear that there's views  
14 that the credit markets are relaxed and that  
15 Manitoba's rating and borrowing costs and thus Hydro's  
16 are not at risk. I don't think you can make that  
17 conclusion that credit markets aren't worried about  
18 Manitoba Hydro. When I read the global credit rating  
19 agency Moody's, their statement in a report last week,  
20 referring to our recent credit metrics and the outlook  
21 for them, these financial metrics are among the  
22 weakest, if not the weakest, of any of Manitoba  
23 Hydro's peers; including vertically integrated,  
24 provincially owned Crown corporations in Canada.

25                   The only thing really open to debate is



1 how worried investors and rating agencies are and when  
2 they will start acting on it. In other words, how  
3 close are we to the point where confidence in all of  
4 us erodes? I can tell you from considerable  
5 experience in the capital markets that sometimes when  
6 this happens it doesn't come in the form of a slow  
7 trickle. It takes the form of a stampede and my  
8 question would be: Why flirt with that? And  
9 regardless of the credit markets and rating agencies  
10 and that whole discussion, our vulnerability is to the  
11 overall rate increase -- the overall interest rate  
12 increases, no matter what their costs.

13           Taking steps to minimize our risk to  
14 the province is simply honouring our deal with the  
15 taxpayer and acting in our own and our customers best  
16 interest. We'll hear we can cut our sustaining  
17 capital. We've got an aging system and a mandate to  
18 uphold. We have a lot of work ahead of us,  
19 particularly on the distribution side of the business.

20           To suggest they're material savings to  
21 be had in our sustaining capital, we think is  
22 misinformed, shortsighted and risky. But even so and  
23 not to burst Mr. Hacault's bubble from this morning  
24 who told us there was a considerable amount of  
25 positive impact that would come from this, in over ten

1 (10) years, where if we were to take \$100 million out  
2 of that spending which would be a really, really big  
3 deal when you work it through and understanding where  
4 that spending goes and how much goes to things that --  
5 you know, replacing things as they fall down. There's  
6 not a lot of discretion around that.

7                   But even so, taking \$100 million out  
8 probably has an impact of about .3 percent to the rate  
9 increases we're asking for. It really -- a hundred  
10 million dollars in a 25 or \$30 billion balance sheet  
11 just doesn't move the needle. I'm not trying to  
12 diminish that we should be doing everything we could  
13 and every penny counts but we need to be realistic  
14 about arbitrarily adjusting the model.

15                   Slide 77, please. So we talked about  
16 that there will be this idea that we should use a much  
17 more aggressive debt management strategy concurrent  
18 with what we believe we've shown as an unworkable 3.95  
19 percent rate plan. Old plans also had limited net  
20 income for the next ten (10) years, and thus more  
21 appropriate debt terming.

22                   We didn't hear a lot of protests from  
23 the Intervenors then. We think this is another  
24 example of cherry picking, a savings opportunity for  
25 today while parking yet more burden on tomorrow's

1 generation. This is another example of just change  
2 the model thinking that completely ignores the  
3 consequences. Back on change the model, yet again,  
4 we'll be attacked that we've been too conservative.  
5 As noted, major elements of our growth and capital  
6 forecast have proven optimistic.

7                   I think I've spoken about more of this  
8 already, but we're 10 or 20 percent under plan on our  
9 opportunity export pricing so far this year, which  
10 tells you that when you're forecasting upward sloping  
11 export prices on the opportunity side, you're way  
12 behind where you think you're going to get next year.

13                   At the end of the day hope's not a  
14 plan. For now, we are asking for a first step in a  
15 plan; is a step that is amply justified by the  
16 inadequacy of today's rates, our huge cash flow  
17 shortfall and the imminent in service of Bipole III.

18                   We would obviously love to see better  
19 growth, higher export prices and lower interest rates  
20 than are in our forecast. Those forecasts were  
21 prepared with a lot of care and outside expert --  
22 expertise, but they're telling us that right -- but  
23 that's what they're telling us right now, is -- is the  
24 outlook we've shown here.

25                   We'll continue to work diligently to

1 make the best choices we can with scarce capital and  
2 to bring our major projects into service ahead of time  
3 and ahead of budget, but we shouldn't make this year's  
4 rate choice, assuming all of that happening, because  
5 when it doesn't we'll be a far worse place.

6                   Successive forecast after successive  
7 forecast have been too optimistic on the major growth  
8 and capital drivers of our business. We have to be  
9 more defensive in how we approach rates.

10                   Finally, we'll hear that this isn't  
11 fair to the current generation of ratepayers. Well it  
12 most certainly isn't fair to park an overinflated and  
13 unsustainable debt burden on the next generation.  
14 Moreover, it's clear that rates haven't kept up with  
15 the cost of the system and effectively no material  
16 contribution to reserves have been made in almost ten  
17 (10) years. So if anyone has been treated unfairly it  
18 has not been today's ratepayer.

19                   MR. KELVIN SHEPHERD: Slide 79. This  
20 has been a long presentation this afternoon and I want  
21 to thank the panel, Intervenors, and others in  
22 attendance or watching remotely for your attention and  
23 your patience.

24                   In closing, I believe we have  
25 demonstrated that Manitoba Hydro's business outlook

1 has deteriorated significantly since the last full  
2 rate hearing. Manitoba Hydro's previous financial  
3 plan was inadequate and risky, and has failed. As a  
4 result, Manitoba Hydro's financial condition is  
5 unsustainable, with debt levels growing out of  
6 proportion to the revenues required to support them.

7           Manitoba Hydro has been borrowing money  
8 to make its operating and debt payments and is in a  
9 cash flow deficit. So a new plan is required and is  
10 being presented to the Board during this rate  
11 application. We believe taking action now, and having  
12 a realistic plan to restore Manitoba Hydro's financial  
13 strength and return to self-supporting status over ten  
14 (10) years is absolutely required.

15           However, the Board is only being asked  
16 to approve the current rate request which by itself is  
17 inadequate to fully address the current cash  
18 deficiency and the costs of Bipole III, which will go  
19 into service within a year.

20           In my view, the evidence presented  
21 demonstrates that the Board cannot be wrong in  
22 approving the rate increase Manitoba's requesting, and  
23 that by doing so it will create a much higher  
24 likelihood of stable and lower rates over the longer  
25 term.

1                   Thank you once again and that concludes  
2 our prepared remarks and we're available for  
3 questions.

4                   THE CHAIRPERSON:    Thank you very much.  
5 You know what, we're going to take ten (10) minutes  
6 and then we'll -- then we'll start with cross-  
7 examination.   Thank you.

8

9 --- Upon recessing at 4:08 p.m.

10 --- Upon resuming at 4:23 p.m.

11

12                   THE CHAIRPERSON:    If we could -- if we  
13 could start, Mr. Peters.

14

15 CROSS-EXAMINATION BY MR. BOB PETERS:

16                   MR. BOB PETERS:    Yes, thank you, Mr.  
17 Chair, Board members.   Good afternoon, Mr. Shepherd,  
18 Mr. McCallum.

19                   I take it, gentlemen, this will be your  
20 first time testifo -- testifying before the Public  
21 Utilities Board?

22                   MR. KELVIN SHEPHERD:   Yes, it is.

23                   MR. BOB PETERS:    Welcome.   And on a  
24 few preliminary matters, just so that we can be clear  
25 -- and I think my preliminary matters may spill over

1 to other counsel -- so we understand, Mr. McCallum,  
2 you will also appear on the next panel of Manitoba  
3 Hydro, which we call the Revenue Requirement Panel.

4 Would that be correct?

5 MR. JAMES MCCALLUM: Yes.

6 MR. BOB PETERS: All right. And, Mr.  
7 Shepherd, you will not be on any further witness  
8 panels.

9 MR. KELVIN SHEPHERD: No, I do not  
10 plan to be.

11 MR. BOB PETERS: All right. So while  
12 I may direct most of my initial questions to you, Mr.  
13 Shepherd, I'm sure, Mr. McCallum, there'll be  
14 opportunity for you as well.

15 And before I begin, I'd like to remind  
16 both of you that -- and also your counsel, that the  
17 questions that are asked by Board members or by their  
18 counsel are not intended to elicit responses that  
19 would place information that Hydro believes is  
20 confidential or commercially sensitive on the public  
21 record.

22 Would you accept that?

23 MR. KELVIN SHEPHERD: Yes, thank you.

24 MR. BOB PETERS: And for those who are  
25 observing this from afar and aren't familiar with the

1 procedure, Mr. Shepherd, Manitoba Hydro has filed I'll  
2 say every piece of information that's been requested  
3 of them from the Public Utilities Board and others.

4 Is that your understanding?

5 MR. KELVIN SHEPHERD: That's my  
6 understanding, yes.

7 MR. BOB PETERS: And, sir, when some  
8 of that information is considered by Manitoba Hydro to  
9 be confidential and Manitoba Hydro doesn't want it on  
10 the public record, Manitoba Hydro has still filed it  
11 with the Public Utilities Board and has asked the  
12 Board to keep it confidential, correct?

13 MR. KELVIN SHEPHERD: Yeah, that's my  
14 understanding of the process.

15 MR. BOB PETERS: And, sir, that -- the  
16 reasons ,just for those again who might be from afar,  
17 that Manitoba Hydro is asking that materials be kept  
18 confidential and not put on the public record, can you  
19 just give a couple of examples that would explain  
20 that.

21 MR. KELVIN SHEPHERD: Sure. I think a  
22 couple of examples, one (1) would be where --  
23 potentially, it would put proprietary information that  
24 was provided to us as part of a proposal or a project  
25 from third party on the public record, and we have a



1 confidentiality or non-disclosure obligation because  
2 it would be commercially sensitive for that vendor.  
3 So that might be one (1) example.

4           Another very pertinent one, is that  
5 clearly we have to negotiate export contracts and  
6 arrangements and -- and those contracts are, you know,  
7 with different utilities, different customers, and  
8 have different terms. And so while we were perfectly  
9 happy to talk about aggregate information, the details  
10 of individual arrangements are commercially sensitive.

11           MR. BOB PETERS: Thank you for that,  
12 Mr. Shepherd. Should there be responses that Hydro  
13 wants to provide to the Board that do contain  
14 confidential or commercially sensitive information,  
15 your counsel and you are aware of the process for  
16 that, and that would include even an -- in-camera  
17 hearings before this Board. And so that would be the  
18 route to follow if that was your intention.

19           Would that be acceptable?

20           MR. KELVIN SHEPHERD: Yes, I believe  
21 so.

22           MR. BOB PETERS: All right. And,  
23 however, you did -- you did, perhaps, hit on it that  
24 to promote the maximum transparency in the public  
25 hearing, my request is that you would attempt to first

1 respond using information that is not considered  
2 confidential by Manitoba Hydro. And that, by way of  
3 example, could be the aggregated information that you  
4 indicated without disclosing the components of the  
5 aggregate?

6 MR. KELVIN SHEPHERD: Yes, we will do  
7 our best to -- to answer the question. And if we  
8 believe it can't be answered without getting into  
9 confidential matters, we'll indicate that.

10 MR. BOB PETERS: Thank you, sir. And  
11 as was noted in the Chair's opening comments, the  
12 Board has direction from the Ombudsman's office,  
13 related to the information that is publicly  
14 disseminated. So my questions of Manitoba Hydro do  
15 not seek to disaggregate any of that information, such  
16 that an individual customer could be identified.

17 Would that be acceptable?

18 MR. KELVIN SHEPHERD: Yes.

19 MR. BOB PETERS: All right. And, Mr.  
20 Chair, Board members, and Manitoba Hydro witnesses,  
21 ladies and gentlemen, in an effort to be efficient,  
22 we've assembled various documents into what we call  
23 Board Counsel's Book of Documents, and the first four  
24 have been filed on the -- on the Board's website.  
25 They are marked as exhibit PUB-42-1 through 42-4.

1                   So, to the greatest extent possible, my  
2 questions -- I'll refer to those exhibits and the  
3 documents are there, and -- and I'm -- in a form  
4 that'll be available for those who are following the  
5 transcripts, as well as online.

6                   Mr. Shepherd, if we could then begin,  
7 you've indicated in your opening comments that your  
8 appointment to Manitoba Hydro as president and CEO may  
9 have been announced in November of 2015, but you  
10 started in December of 20 -- 2016?

11                   MR. KELVIN SHEPHERD:    December 7th, to  
12 be exact.   Pearl Harbor Day.

13                   MR. BOB PETERS:    And you're  
14 responsible for leading the executive management team  
15 and overseeing all strategic, operational, and  
16 financial facets of Manitoba Hydro?

17                   MR. KELVIN SHEPHERD:    Yes, that's  
18 true.

19                   MR. BOB PETERS:    And you report to the  
20 Manitoba Hydro Board of Directors?

21                   MR. KELVIN SHEPHERD:    Yes.

22                   MR. BOB PETERS:    And, Mr. McCallum,  
23 before I turn to you, sir -- Mr. Shepherd I may have  
24 misspoke.   Mr. Shepherd, you indicated that you had  
25 celebrated your second anniversary, I think.   Or maybe

1 it was this week with Manitoba --

2 MR. KELVIN SHEPHERD: This week.

3 MR. BOB PETERS: It's tomorrow -- or  
4 no, it's -- you said the 7th, so it's this week.

5 So I may have misspoke. Your -- your  
6 starting date was 2015 with the Corporation?

7 MR. KELVIN SHEPHERD: December 7th,  
8 2015, yes.

9 MR. BOB PETERS: All right. Thank  
10 you, sir.

11 And, Mr. McCallum, your starting date  
12 was in -- also in 2016 or '15?

13 MR. JAMES MCCALLUM: It was in 2016.  
14 I'm not as good as Mr. Shepherd with the exact dates,  
15 but it was the Tuesday after Labour Day, September  
16 2016.

17 MR. BOB PETERS: And can you -- you're  
18 the Vice-President Finance and Strategy Officer,  
19 according to the materials you provided, correct?

20 MR. JAMES MCCALLUM: My formal title  
21 is Chief Finance and Strategy Officer, but I am a  
22 Vice-President of the Corporation.

23 MR. BOB PETERS: And can you explain  
24 briefly what does the Chief Strategy Officer do for  
25 Manitoba Hydro.

1                   MR. JAMES MCCALLUM:   Well, the Chief  
2 Finance and Strategy Officer has a number of  
3 functions. I am responsible with my colleagues for  
4 the Corporate Control Group, which does financial  
5 reporting and management reporting. I have  
6 responsibility for the treasury function, where we  
7 raise the debt and manage -- manage our cash position.  
8 I have responsibility for internal audit. I have  
9 responsibility for rates and regulatory affairs. And  
10 I am responsible for a unit called Strategic Business  
11 Integration, where we combine some of our corporate  
12 level asset management initiatives along with the  
13 financial and strategic planning.

14                   MR. BOB PETERS:   I take from that  
15 answer, that strategy implies more than just one (1)  
16 approach to many issues. And so in coming up with  
17 strategies, such as for rate increases, you have to  
18 consider a number of options?

19                   MR. JAMES MCCALLUM:   I'd say that's a  
20 fair statement.

21                   MR. BOB PETERS:   And was there anybody  
22 doing this before you assumed that position, sir?

23                   MR. JAMES MCCALLUM:   Well, per --  
24 perhaps I'll have to -- I'll take an attempt, but if I  
25 miss the mark I'm sure you'll -- you'll ask a

1 clarifying question. But I would differentiate  
2 perhaps between the corporate strategy which is an  
3 area I'm -- I'm with the CEO responsible for, and  
4 strategies around a financial plan, and -- and really  
5 is, you know, one (1) element of that, a rate increase  
6 strategy.

7 But there have always been people at  
8 Manitoba Hydro who have been responsible for all of  
9 these things. They haven't necessarily rolled up into  
10 the same vice-president's office, but -- but there  
11 have always people responsible for these things. Does  
12 -- does that help?

13 MR. BOB PETERS: Thank you, yes. I'd  
14 like to turn to the PUB Exhibit 42-1, which is the  
15 first book of documents, over to page 5, if I could.

16

17 (BRIEF PAUSE)

18

19 MR. BOB PETERS: Thank you. And  
20 specifically on this page we will scroll down and see,  
21 starting on lines 23, that Manitoba Hydro is first  
22 asking that the three three (33) -- three point three  
23 six (3.36) interim rate accre -- increase that was  
24 granted August 1st of 2016 be approved as final, with  
25 no changes in that amount.

1                   Have I got that correct?

2                   MR. KELVIN SHEPHERD:    Yes, that's  
3 correct.

4                   MR. BOB PETERS:    And while Vice-Chair  
5 Kapitany asked about that matter, Hydro acknowledges  
6 that the Board can review it, and the Board can make  
7 decisions whether it was appropriate, whether it was  
8 too much or too little and adjusting accordingly?

9                   MR. KELVIN SHEPHERD:    Yes, that's our  
10 understanding.

11                  MR. BOB PETERS:    All right.  And  
12 turning to the point number 2, Manitoba Hydro asked  
13 for approval on an interim basis of 7.9 percent,  
14 effective August 1st of 2017.

15                  And we've already heard that the Board  
16 awarded Manitoba Hydro 3.36 percent, effective August  
17 1st of 2017, correct?

18                  MR. KELVIN SHEPHERD:    Yes.

19                  MR. BOB PETERS:    And I take it, Mr.  
20 Shepherd, from your exchange with the Vice-Chair, that  
21 Manitoba Hydro is not asking for any changes to the  
22 amount of 3.36 percent that was awarded that date?

23                  MR. KELVIN SHEPHERD:    No, we've chosen  
24 to focus on the go-forward rate application, although  
25 we understand the Board can ask to confirm the interim

1 rate and can revisit if they want.

2 MR. BOB PETERS: On page -- we --  
3 we've got it in a number of places in your  
4 presentation, Mr. Shepherd, but on that Tab 5, page 68  
5 of the Board counsel book of documents, we see that  
6 the revised rate plan that Manitoba Hydro has put  
7 before the Board includes the 7.9 percent, extending  
8 for six (6) years, followed by the four point five  
9 four (4.54) for one (1) year and 2 percent thereafter.

10 Have I got that right?

11 MR. KELVIN SHEPHERD: Yes, that's  
12 correct.

13 MR. BOB PETERS: And so what Manitoba  
14 Hydro did was they mathematically calculated what the  
15 impact of not getting the 7.9 percent rate increase  
16 was in the first year that it was requested, and then  
17 in essence added it onto the back-end.

18 MR. KELVIN SHEPHERD: Yes.  
19 Essentially, we flowed that through the financial  
20 model.

21 MR. BOB PETERS: And while Mr.  
22 McCallum warned us with pages of numbers, and there's  
23 unfortunately a lot of them -- but if we turn to page  
24 179 of Board counsel's book of documents, Exhibit 42-  
25 1. The panel will have Manitoba Hydro's Integrated



1 Financial Forecast, IFF as we abbreviate it, was  
2 number 16, or for the year 2016. And this one  
3 contains Manitoba Hydro's update, and it also includes  
4 the impact of the 3.36 percent interim award awarded  
5 on August the 1st of 2017, correct?

6 MR. KELVIN SHEPHERD: Yes, that's  
7 true. And if we go down to the rate increase line  
8 which is near the bottom of the page, and it says,  
9 "additional domestic revenue," and then underneath  
10 that it says, "percent increase," we see under the  
11 2018 column that the 3.36 percent number is embedded.  
12 And that now is being accepted by Manitoba Hydro and  
13 allowing the Board to determine whether that was  
14 appropriate or not?

15 MR. KELVIN SHEPHERD: Yes. So though  
16 -- I think I -- I would just add that we did receive  
17 instruction from the -- from the Board to update the  
18 forecast based upon assuming the interim, and so we  
19 had to make a decision about how to incorporate that  
20 into the forecast.

21 And so we've chosen to incorporate it  
22 this way by keeping basically our overall ten (10)  
23 year plan intact and by including the thee point three  
24 six (3.36), as we were requested to do so by the  
25 Board. That's why we call it MH16 Update With

1 Interim.

2 MR. BOB PETERS: And on that same  
3 page, 179, of Exhibit 42-1, we see near the top of the  
4 page under the column of 2018, there's additional  
5 domestic revenue of \$37 million standing out.

6 Do you notice that?

7 MR. KELVIN SHEPHERD: Yes.

8 MR. BOB PETERS: That represents the  
9 additional revenue in Manitoba Hydro's fiscal 2018  
10 year that will be generated from the 3.36 percent rate  
11 increase.

12 Is that correct?

13 MR. JAMES MCCALLUM: It -- it's mostly  
14 correct. That's -- that's certainly the additional  
15 rate receipts that will come into Manitoba Hydro as a  
16 consequence. But due to the direction of the Board to  
17 defer the new revenue to the Bipole III reserve  
18 account, that won't actually flow through to revenue  
19 as -- as an accounting term.

20 MR. BOB PETERS: All right. We'll --  
21 we'll come to that. And probably more than a nuance,  
22 but we'll deal with that, Mr. McCallum, in a --  
23 probably tomorrow.

24 And, Mr. Shepherd, looking on that same  
25 page 179, we look out and we see the last two (2)

1 items under 2026 and 2027, we go down to the rate  
2 increase line, and we see the 2 percent number,  
3 correct?

4 MR. KELVIN SHEPHERD: That's correct.

5 MR. BOB PETERS: Is that a promise  
6 from Manitoba Hydro that it'll be 2 percent in those  
7 fiscal years?

8 MR. KELVIN SHEPHERD: No, it's not a  
9 promise. It's simply an estimate of what we believe  
10 the inflationary increases would approximate. But a  
11 plan is not a promise; a plan is simply a forecast.

12 MR. BOB PETERS: And it's not even --  
13 in terms of a plan, it's -- it's -- the calculation of  
14 this IFF was set, so that it recovered your ratio, a  
15 debt ratio by 2027 -- I guess, more accurately an  
16 equity ratio by 2027, and the rate increase numbers  
17 just fell out of the calculations.

18 Would that be an acceptable way to  
19 describe it?

20 MR. KELVIN SHEPHERD: I think so. You  
21 could choose different rate profiles over ten (10)  
22 years to get to the same -- same point. But because  
23 we had originally proposed five (5) years of seven  
24 point nine (7.9), when we updated this with the  
25 interim three point three six (3.36), we chose to

1 extend out the seven point nine (7.9) additional  
2 years, versus, you know, trying to come up with a  
3 totally different rate proposal.

4 MR. BOB PETERS: And, Mr. Shepherd, if  
5 we turn one (1) page to page 180, and we're looking  
6 down at the bottom of that page in the right-hand  
7 corner, we see that, under the equity percentage line,  
8 Manitoba Hydro expects by 2036, some twenty (20) years  
9 hence, to have a 64 degree -- 64 percent equity struc  
10 -- in their structure, correct?

11 MR. KELVIN SHEPHERD: I probably --  
12 I'll answer, you know, briefly and then I'll turn it  
13 over to Jamie for a bit more elaboration here.

14 But I would say that our focus has been  
15 predominantly on achieving our ten (10) year plan. We  
16 made assumptions around an ongoing 2 percent level of  
17 annual rate increase, on the basis of sort of it being  
18 inflationary rate increases.

19 But I would not interpret the 2036  
20 time-frame as a -- as an objective. It's simply an  
21 outcome of the model.

22 MR. JAMES MCCALLUM: I -- I would both  
23 echo that in and -- and just reiterate that the focus  
24 was on the next ten (10) years. And in fact, in  
25 evidence and -- and I can't, off the top of my head,

1 quote the specific Round 1 Information Request,  
2 although it was from the Public Utilities Board, asked  
3 us if this was our -- our goal, and it is not. We do  
4 not have a goal to build 64 percent equity structure.

5 MR. BOB PETERS: I hear that answer,  
6 Mr. McCallum, that the goal is 25 percent, and at that  
7 point in time you'll take stock of where things are?

8 MR. JAMES MCCALLUM: I think that's  
9 fairly put.

10 MR. BOB PETERS: And for the Board  
11 panel members who are new to looking at these  
12 integrated financial forecasts and these are sheets of  
13 numbers, Mr. McCallum and Mr. Shepherd, would it be  
14 appropriate to call the Integrated Financial Forecast  
15 as Manitoba Hydro's master planning tool, which is a  
16 culmination of all internal forecasts and assumptions?

17 MR. KELVIN SHEPHERD: In effect that's  
18 what it does. It brings together a number of  
19 different key forecasts, some of which are operational  
20 such as water-flow assumptions, some which are  
21 financial. It brings them together into an integrated  
22 forecast.

23 MR. BOB PETERS: Okay, let's turn then  
24 if we could gentleman to the -- the last of the test  
25 years, where the rate -- the years in which rate

1 increases are being sought. And we see way back on  
2 page 5 again that Manitoba Hydro is seeking 7.9  
3 percent increase for all components of rates for all  
4 customer classes, effective April 1st, 2018, correct?

5 MR. KELVIN SHEPHERD: Yes.

6 MR. BOB PETERS: Why April 1st of  
7 2018?

8 MR. KELVIN SHEPHERD: Jamie, do you  
9 want to elaborate on the timing?

10 MR. JAMES MCCALLUM: I don't think  
11 there's necessarily any magic in April 1st, the 2018,  
12 other than the -- the dark magic, I guess, of  
13 compounding. Insofar as the rate increase comes in at  
14 a later date, it is less effective at generating the  
15 cash flow we need.

16 But April 1st, I think, you know, for  
17 practical purposes aligns with the beginning of our  
18 fiscal year.

19 MR. BOB PETERS: Do I take from that  
20 answer, Mr. McCallum, that a rate increase in the  
21 calendar year is important because of compounding, in  
22 the earlier you get it, the more opportunity for  
23 additional revenues in the year in which you get it?

24 MR. JAMES MCCALLUM: That's correct.

25 MR. BOB PETERS: And, from Manitoba

1 Hydro's perspective, what period of time should elapse  
2 between rate increases to your consumers?

3 MR. KELVIN SHEPHERD: Perhaps I can  
4 take a crack at that. I know historically, I think  
5 rate increases have typically been on an annual basis.  
6 Again, when we brought our request forward, we were  
7 clearly focused on getting back on a -- a track to  
8 achieve positive cash flow. One (1) of the other  
9 factors we are quite cognizant of was the fact that  
10 Bipole III would be coming into service.

11 And so that's why we've -- we've  
12 identified two (2) rate increases in the space of a  
13 year. And subsequently we go back to the annual rate  
14 profile.

15 MR. BOB PETERS: Does that annual  
16 profile start each year on the commencement of the  
17 fiscal year, Mr. Shepherd?

18 MR. JAMES MCCALLUM: Yes, that's the  
19 assumption that's in the financial model.

20 MR. BOB PETERS: Mr. McCallum, just to  
21 pick up on that there's no magic comment that you made  
22 -- I actually wrote that down in my notes -- the 7.9  
23 percent is -- is the -- and this isn't meant  
24 pejoratively -- but is the magic in that number,  
25 optically it's less than 8 percent? That's --

1 that's...

2 MR. JAMES MCCALLUM: No. It -- it's  
3 that's not where it comes from. When you -- when you  
4 look back to our original financial plan as -- as  
5 submitted in the May, we had five (5) years of 7.9  
6 percent rate increases. And what we were really  
7 talking about doing there was doubling the rate of  
8 increases for a much shorter period of time in order  
9 to accelerate rate increases to produce the revenue  
10 and cash to -- to deal with what we regard is a  
11 difficult fiscal situation.

12 So it's a doubling of the past 3.95  
13 percent.

14 MR. BOB PETERS: And mathematically,  
15 that 7.9 percent annual rate increase approximates 125  
16 or \$127 million of additional revenue if you have it  
17 for the full twelve (12) months? If you take that  
18 subject to check, and your counsel will tell you that  
19 when I put numbers on the record it is wise to check  
20 them.

21 MR. JAMES MCCALLUM: Yeah, that -- I  
22 just wanted to turn to the model which I lost the --  
23 the page on. But -- but that sounds directionally  
24 correct; that would be built over and on top of the  
25 3.36 percent that was a put into rates under Order



1 80/17.

2 MR. BOB PETERS: I'm not sure you'll  
3 get the math on page 179 that you were looking for,  
4 Mr. McCallum, but I -- we'll -- we'll proceed on that  
5 basis and if it changes you'll tell me.

6 And so if we do the math further, that  
7 7.9 percent, or \$127 million annually for a full 12  
8 months, it works out to approximately \$16 million per  
9 percentage point of the rate increase that Manitoba  
10 Hydro is seeking.

11 MR. JAMES MCCALLUM: I'm sorry, Mr.  
12 Peters, can you repeat the question.

13 MR. BOB PETERS: You were checking my  
14 math, weren't you?

15 MR. JAMES MCCALLUM: I was -- I was on  
16 the latter question, I admit it.

17 MR. BOB PETERS: Mr. McCallum, the  
18 \$127 million annually works out to about \$16 million  
19 per percentage point of the 7.9 percent that you're  
20 seeking?

21 MR. JAMES MCCALLUM: That -- that  
22 sounds about right. \$127 million divided by 8 percent  
23 would be about that per percentage point.

24 MR. BOB PETERS: And just so that  
25 we're all clear in this room and those watching from

1 afar, Manitoba Hydro's request for rate increases back  
2 on page 179, it stops at, in this hearing, with the  
3 7.9 percent rate increase in your fiscal 2019 year.

4 MR. JAMES MCCALLUM: That's correct.  
5 Our fiscal 2019 year begins on April the 1st of 2018.  
6 Perhaps at another time we can talk about moving to a  
7 calendar year-end, because I think it would be easier.

8 But that's right, it's April 1st, 2018,  
9 which is the last of the rate increases on the agenda  
10 here.

11 MR. BOB PETERS: Is Manitoba Hydro  
12 required to use the province's fiscal year?

13 MR. JAMES MCCALLUM: We are. It'll be  
14 a short discussion.

15 MR. BOB PETERS: And so, Mr. Shepherd,  
16 when we look on page 179 at the rate increases in the  
17 years 2020 and beyond, those are indicative rate  
18 increases they're not promises, is what I've heard you  
19 say already?

20 MR. KELVIN SHEPHERD: That's correct.  
21 They're provided to provide general direction and a  
22 plan.

23 MR. BOB PETERS: And that's -- this is  
24 Manitoba Hydro's current and most latest plan, is  
25 demonstrated on page 179?

1                   MR. KELVIN SHEPHERD:    I believe that's  
2 true.  There are things that will change in subsequent  
3 forecasts, but this was the latest forecast and the  
4 best at the time of filing.

5                   MR. BOB PETERS:    Maybe I'll jump there  
6 now, although I -- I was going to get to it.  But when  
7 you say you -- Manitoba Hydro has already provided  
8 this Board with its second quarter update, correct?

9                   MR. KELVIN SHEPHERD:    Yes, that's  
10 right.

11                   MR. BOB PETERS:    And this morning and  
12 -- this afternoon, I should say, in your presentation  
13 you provided the Board with revised estimates as to  
14 net income for 2018, correct?

15                   MR. KELVIN SHEPHERD:    Yeah.  Updated  
16 as of the second-quarter report.

17                   MR. BOB PETERS:    All right.  Are there  
18 any financial updated reports that Manitoba Hydro has  
19 that they haven't provided to the Public Utilities  
20 Board in this rate case?

21                   MR. KELVIN SHEPHERD:    Not to my  
22 knowledge.  Jamie, could I ask you to confirm,  
23 perhaps, but...

24                   MR. JAMES MCCALLUM:    Well, we -- we're  
25 -- we're constantly in a process of -- of updating our

1 financial information and the key inputs to the model.  
2 I -- I -- you know, I am not aware of anything that we  
3 haven't made the Board aware of in this process.

4 MR. BOB PETERS: The latest financial  
5 information that Manitoba Hydro has provided though,  
6 has been through the second-quarter report, correct?

7 MR. JAMES MCCALLUM: That's our latest  
8 outlook on the fiscal 2017/'18 results.

9 MR. BOB PETERS: Has Manitoba Hydro  
10 prepared a new integrated financial forecast based on  
11 the second-quarter results, and everything that's  
12 happened before that?

13 MR. JAMES MCCALLUM: No, we have not.

14 MR. BOB PETERS: That's not your  
15 intention?

16 MR. JAMES MCCALLUM: It is not our  
17 intention.

18 MR. BOB PETERS: Mr. Shepherd, while  
19 my colleague will cover the specific asset -- aspects  
20 with respect to Manitoba Hydro's rate panel, would  
21 this Board be correct in understanding that, in this  
22 General Rate Application, Manitoba Hydro is not  
23 proposing conservation rates?

24

25

(BRIEF PAUSE)

1 MR. KELVIN SHEPHERD: I just wanted to  
2 check. But no, I don't believe we are actually  
3 proposing to implement conservation rates.

4 MR. BOB PETERS: And, Mr. Shepherd,  
5 Manitoba Hydro is not proposing electric heat customer  
6 rates either?

7 MR. KELVIN SHEPHERD: No. I know  
8 there's been some discussion, but we're not proposing  
9 that.

10 MR. BOB PETERS: And Manitoba Hydro is  
11 not proposing bill affordability rates?

12 MR. KELVIN SHEPHERD: No, I do not  
13 believe we are proposing anything specific around bill  
14 affordability rates.

15 MR. BOB PETERS: And lastly, it's my  
16 understanding and I'll ask you to confirm, that  
17 Manitoba Hydro is not proposing any time-of-use rates  
18 for any of its customers in this application either?

19 MR. KELVIN SHEPHERD: No, we are not.

20 MR. BOB PETERS: All right. And would  
21 this Board be correct in understanding that Manitoba  
22 Hydro's motivation for not proposing conservation  
23 rates or electric heat rates or bill affordability  
24 rates or time-of-use rates is that Manitoba Hydro has  
25 determined that a 7.9 percent rate increase is high

1 enough, and any of these other rate adjustments would  
2 result in some customers paying in excess of 7.9  
3 percent?

4 MR. KELVIN SHEPHERD: Well, the  
5 details of rate design are complex, but that is  
6 certainly a factor that we -- that we discussed, yes.

7 MR. BOB PETERS: And when you say it's  
8 a factor -- maybe we'll leave it to -- to the other --  
9 the rates panel to get the specifics, but from a  
10 policy perspective, should this Board understand that  
11 Manitoba Hydro has no appetite to look at new rate  
12 structures that I've mentioned, because that will  
13 cause some consumers rates to exceed the already 7.9  
14 percent proposal?

15 MR. KELVIN SHEPHERD: Perhaps at a  
16 policy level, I can say that we did discuss a number  
17 of different things that come into play around rate  
18 design and we made a decision to seek a uniform 7.9  
19 percent rate increase, understanding that some of  
20 these other, you know, rate options would necessarily,  
21 you know, differentiate rate increases and cause some  
22 increases to be higher and some lower.

23 And we felt during this hearing that  
24 the focus should be on the -- on the ten (10)  
25 financial plan and the 7.9 percent and -- and -- so we

1 haven't moved forward with those other options. That  
2 doesn't mean those options are somehow off the table  
3 for future discussion but we simply did not propose  
4 for this hearing.

5 MR. BOB PETERS: But doesn't that  
6 mean, Mr. Shepherd, that those other options for  
7 conservation rates or electric heat rates or bill  
8 affordable rates or time of use rates are off the  
9 table so long as Manitoba Hydro is proposing a 7.9  
10 percent rate plan?

11 MR. KELVIN SHEPHERD: No, I don't  
12 believe so. I think given all of the factors that we  
13 had going into this rate application, including  
14 timing, and some very significant issues on the table,  
15 we didn't feel it was the right time to propose those  
16 options.

17 But if you're suggesting they would be  
18 off the table for three (3), four (4), of five (5)  
19 years, I wouldn't agree with that. They -- they are  
20 future options.

21 MR. BOB PETERS: So Manitoba Hydro  
22 hasn't made a policy decision to put those on the back  
23 burner until the 7.9 percent has run its course?

24 MR. KELVIN SHEPHERD: No, we simply  
25 were not prepared to move ahead in this particular

1 rate application given all the other things we had on  
2 our table at the time, but, there's no suggestion that  
3 those couldn't be considered in future rate hearings.

4 MR. BOB PETERS: All right, thank you.  
5 Mr. Shepherd, I took from your presentation today and  
6 I'd ask you to tell me if I'm correct in understanding  
7 your presentation as indicating that Manitoba Hydro  
8 has a capital problem not an operating problem?

9 MR. KELVIN SHEPHERD: Yes, I think  
10 fundamentally it's an issue around debt and our  
11 capital structure. Clearly, we are working on the  
12 operational part of our business. We're seeking  
13 efficiency. We're making operational reductions. And  
14 so there is work that -- that can be done and will be  
15 done there, but the fundamental underlying problem, in  
16 my view, is one (1) of the major capital expansion and  
17 the amount of debt that has been taken on not the  
18 operating part of the business per se.

19 MR. BOB PETERS: But bluntly, the  
20 capital problem is the Keeyask generating station?

21 MR. KELVIN SHEPHERD: I would say it's  
22 not just Keeyask, Bipole is \$5 billion of the problem  
23 and has no revenue with it and Keeyask, although it's  
24 a -- a major capital expenditure at least does come  
25 with some incremental revenue. So it's the sum total



1 of that expansion problem, and probably, more  
2 importantly, the reliance on debt to fund it entirely  
3 and the inability of rates to really -- current rates  
4 and rates prior to taking on the projects supporting  
5 that level of debt.

6 MR. BOB PETERS: And you don't  
7 disagree that Manitoba Hydro knew going into those  
8 projects that it was going to be debt funded?

9 MR. KELVIN SHEPHERD: Oh I think it's  
10 fairly obvious that that was part of the plan, yes.

11 MR. BOB PETERS: Would this Board be  
12 correct in understanding that Manitoba Hydro's current  
13 Board of Directors would not have approved the  
14 building of Keeyask if -- if this Board was consulted  
15 at the time that Keeyask was supposed to be  
16 constructed?

17 MR. KELVIN SHEPHERD: Well, I believe  
18 the chair of our board has publicly made that  
19 statement.

20 MR. BOB PETERS: And so Keeyask was  
21 started. Was it back in 2008 or 2009? Maybe subject  
22 to check, looking at capital expenditure --

23 MR. KELVIN SHEPHERD: I -- I would  
24 have to check the exact dates, but I know there were -  
25 - I mean, there's a good question as to when it starts

1 because the consultation and licensing period probably  
2 started before that.

3 MR. BOB PETERS: And Mr. Shepherd, if  
4 I can take from your answer that the current Board of  
5 Directors of Manitoba Hydro would not have proceeded  
6 with Keeyask, can I also take that the current Board  
7 of Directors would have proceeded with the Bipole III?

8 MR. KELVIN SHEPHERD: I think it's  
9 safe to say after a pretty in-depth review, the  
10 current Board concluded that Bipole III is a required  
11 reliability project. They would have perhaps  
12 different views about aspects of the project; in  
13 particular, timing that it should have been completed  
14 in or the route -- route of the line, but I believe  
15 that they would concur that the project itself is  
16 important and essential.

17 MR. BOB PETERS: Can I take from that  
18 answer, sir, that the current Board of Directors  
19 would've approved the Bipole project probably even if  
20 they knew what the \$5 billion of costs were going to  
21 be?

22 MR. KELVIN SHEPHERD: You know, I  
23 don't want to -- I don't want to put words into my  
24 board or the chair of the Board. I simply will tell  
25 you that they concluded after the review that Bipole

1 was a project that was important, was required to  
2 ensure the reliability of the electrical system in  
3 Manitoba; was probably overdue, and therefore they  
4 believe that it's a project that needed to -- to go  
5 ahead and -- and they approved continuing with it.

6 MR. BOB PETERS: All right, thank you  
7 and I -- I respect you don't want to put words in your  
8 board's mouth and just understand that I am trying to  
9 put words into your mouth and you'll correct me if I'm  
10 -- if I'm wrong on that, sir.

11 Mr. Shepherd, while your current Board  
12 of Directors would not have proceeded with Keeyask,  
13 why as Manitoba Hydro's president and CEO in 2015  
14 didn't you cancel Keeyask?

15 MR. KELVIN SHEPHERD: So let me -- let  
16 me give you a bit of perspective on that. So I  
17 mentioned I started with Manitoba Hydro in early  
18 December 2015. I was hired by the then Board that was  
19 in place and the chair that was in place. I had  
20 perhaps a week of spare time between my previous job;  
21 considering I was also chairing the United Way  
22 campaign at that point in time before I joined Hydro.

23 So I'd done some research prior to  
24 coming to them, but I think reading public  
25 information, public records only gets you so far. So

1 some of the things I did when I came to the Company  
2 are the things that you would expect anybody to do. I  
3 received briefings and orientation from my executive  
4 team in I believe it was January. I actually went to  
5 Keeyask to visit the site; saw the -- the construction  
6 progress and -- and the status of it. I received  
7 briefings on both Keeyask and Bipole from the vice-  
8 president that was currently in charge of major  
9 projects at that time.

10                   And I did that go through, not  
11 immediately, but certainly over the subsequent, you  
12 know, couple months a set of -- of examinations of the  
13 projects with the team where I asked what if  
14 questions, but I concluded fairly early on that the  
15 level of expenditure, the progress on the project,  
16 coupled with other factors which are very important.  
17 Our partnership agreement with our four (4) Keeyask  
18 Cree Nation partners, the export contracts that we had  
19 entered into with our US customers, all of these  
20 things really made Keeyask a project that would be  
21 very difficult and -- and, in my conclusion, really  
22 economically impossible to back out of at that point  
23 in time.

24                   So I had concluded in early 2016, at  
25 least to my satisfaction having looked at a number of

1 options, that the project would proceed. Now, I also  
2 understood fairly clearly that there were risks with  
3 the project. At that point in time, I would say that  
4 the risk of the cost escalation was simply that, a  
5 risk. It would not have been until much later in 2016  
6 that some of the factors that lead to the Keeyask cost  
7 escalation would've become apparent to the project  
8 team or -- or to myself. But I certainly understood  
9 there was risk.

10                   So I can tell you that my perspective  
11 fairly early on was the Keeyask was a project that was  
12 at a stage that it was really not viable to pause for  
13 any significant period of time, or to halt.

14                   MR. BOB PETERS:    That view that you  
15 had was shared by your then Manitoba Hydro Board of  
16 Directors?

17                   MR. KELVIN SHEPHERD:    Yes, I -- I  
18 believe the -- the Board at the time who did receive  
19 regular briefings on these projects and the status of  
20 the projects, certainly none of them, to my -- best of  
21 my recollection ever suggested that we should pause or  
22 halt Keeyask.

23                   MR. BOB PETERS:    So one (1) of the key  
24 drivers that I take from your presentation today, sir,  
25 that's behind the current rate increase and the

1 trajectory of rate increases is the financing costs  
2 and the pending increases in the in-service costs of  
3 first Bipole, and then the Keeyask generating station;  
4 would that be correct?

5 MR. KELVIN SHEPHERD: Certainly  
6 capital cost escalations are one (1) factor.

7 MR. BOB PETERS: And then the in-  
8 service costs that have to be paid for when those  
9 projects come in service is another concern?

10 MR. KELVIN SHEPHERD: The, you know,  
11 if I went through and listed the concerns, there would  
12 be several, but I think we've outlined in our  
13 presentation a number of key underlying forecasts and  
14 assumptions in the financial plan have deteriorated  
15 significantly over the last year or year and a half.  
16 So, capital cost escalation is a key one; that in  
17 itself does drive up additional debt and borrowing and  
18 -- and creates additional pressures.

19 Export price forecasts and  
20 deterioration in export pricing is another significant  
21 factor. As well as, you know, changes in the forecast  
22 for domestic load growth which have the impact of  
23 really, you know, pushing out the date when domestic  
24 consumption of Keeyask power, in particular, is  
25 required.

1                   MR. BOB PETERS:    Let me just touch on  
2 those last two (2) briefly, and I know we're going to  
3 get into them in greater detail with the panels but  
4 Manitoba Hydro's export price forecast has been  
5 reduced from what was previously before this Board and  
6 what was in your previous integrated financial  
7 forecasts?

8                   MR. KELVIN SHEPHERD:    Yes, that's  
9 true.

10                  MR. BOB PETERS:    And is also true, Mr.  
11 Shepherd, that the export price forecast has been  
12 adjusted by Manitoba Hydro which has caused there to  
13 be a lower export price forecast?

14                  MR. KELVIN SHEPHERD:    Could I perhaps  
15 ask counsel for a little clarification.

16                  MR. BOB PETERS:    Yeah, let me -- let  
17 me try that again.

18                  MR. KELVIN SHEPHERD:    When you -- when  
19 you say "adjusted by Manitoba Hydro," adjusted  
20 from...?

21                  MR. BOB PETERS:    Manitoba Hydro made  
22 some adjustments to its export load forecast as it  
23 took out a couple of components that used to be in it.  
24                                    Are you familiar with that?

25                  MR. KELVIN SHEPHERD:    Yes.    So if --

1                   MR. BOB PETERS:    I think -- I think  
2 that's on the public record.

3                   MR. KELVIN SHEPHERD:    Yeah.  Yeah, so  
4 if -- if -- are we -- are we talking load forecast or  
5 --

6                   MR. BOB PETERS:    No, I was talking  
7 export.

8                   MR. KELVIN SHEPHERD:    Price.  But you  
9 said export load.  I think you're talking about export  
10 price forecast or export load?  I just want to --

11                   MR. BOB PETERS:    I'm talking the  
12 export price forecast.

13                   MR. KELVIN SHEPHERD:    Okay, that's --  
14 that's what I thought.  I just wanted to be absolutely  
15 clear I understood what the question was.

16                   Yes.  No, there have been and I'd ask  
17 Jamie to talk to more particulars here, but we did  
18 examine our export price forecast.  As you know, we do  
19 rely on third parties to provide some of that  
20 information, at least the base forecast that we rely  
21 on.

22                   But one (1) Of the key adjustments  
23 we've made is to reduce the expectation that we are  
24 going to be able to achieve premiums in export pricing  
25 associated with a firm or capacity demands and -- and



1 that's based upon a view that those are very uncertain  
2 at this stage that we will be able to actually achieve  
3 that level of pricing premium.

4                   So we've been more conservative in our  
5 export pricing forecast, and I think given our track  
6 record of it seems like regularly overestimating  
7 export pricing, being a little bit more conservative  
8 is the prudent thing to do.

9                   MR. BOB PETERS:    And I took from your  
10 answer, Mr. Shepherd, that there were two (2)  
11 adjustments that you're acknowledging; one (1) was to  
12 do with a reducing a premium. I believe it was on the  
13 -- on surplus dependable energy. And the other one  
14 was to do with the capacity value associated with  
15 certain of the exports?

16                   MR. JAMES MCCALLUM:   That's correct.

17                   MR. BOB PETERS:    And then we deal with  
18 the load forecast and I'm talking about the domestic  
19 load forecast to be clear, Manitoba Hydro has also  
20 changed the methodology in its domestic load forecast  
21 from what had previously been included in Manitoba  
22 Hydro's integrated financial forecasts.

23                                   Is that correct?

24                   MR. KELVIN SHEPHERD:   That's true.  
25 There had been -- there's been a methodology change

1 and it's primarily around large industrial loads.

2 MR. BOB PETERS: All right and we'll  
3 deal with the -- probably Ms. Morrison on the revenue  
4 requirement panel with some of those specifics, but  
5 what you're telling the panel is that under the large  
6 industrial or top consumers category, Manitoba Hydro  
7 used to make some assumptions that were simply  
8 numerical assumptions going forward and Manitoba Hydro  
9 has now adjusted those assumptions?

10 MR. KELVIN SHEPHERD: Yeah, I agree it  
11 would be best to talk with Ms. Morrison on the details  
12 --

13 MR. BOB PETERS: Okay.

14 MR. KELVIN SHEPHERD: -- but broadly  
15 speaking directionally, that's correct. We -- we took  
16 -- had received I think previous comments on the -- on  
17 how we manage forecasts of large industrial loads, and  
18 had taken those into account and determined that there  
19 was merit in making those adjustments in the process.

20 MR. BOB PETERS: Mr. Shepherd, before  
21 I leave it, the latest increase announced for Bipole  
22 III was an increase from the \$4.6 billion to the \$5.04  
23 billion, with a July 2018 in-service date; is that  
24 correct?

25 MR. KELVIN SHEPHERD: Yes, the -- the

1 5.04 billion is correct. I must admit I'm trying to  
2 figure out whether it's July or August. It's either  
3 July or early August. There is a period of time where  
4 the system is in-service operationally, but has not  
5 been turned over to us by the contractor and so I  
6 believe it may be technically something like August  
7 1st before it technically goes into service but,  
8 operationally, the plan will be -- it will be carrying  
9 power in the July timeframe.

10 MR. BOB PETERS: Is there any further  
11 capital cost adjustment to the \$5 billion?

12 MR. KELVIN SHEPHERD: Not at this  
13 time. The latest project update I had from the team  
14 has us continuing to be within -- on track to achieve  
15 that -- that capital forecast.

16 MR. BOB PETERS: How recent is that  
17 update to you?

18 MR. KELVIN SHEPHERD: I receive an  
19 update -- meet with the project teams every two (2)  
20 weeks and so it certainly is, you know, within that  
21 time frame.

22 MR. BOB PETERS: Thank you, sir. And  
23 then turning to Keeyask, I think the evidence  
24 discloses that at the needs for and alternatives to  
25 review before this Board, the Keeyask cost was

1 forecast at \$6.5 billion and that's now increased to  
2 \$8.7 billion; correct?

3 MR. KELVIN SHEPHERD: That's the  
4 current P50 control plan.

5 MR. BOB PETERS: All right. And then  
6 when you say the current, how current is that number  
7 to you if I could, sir?

8 MR. KELVIN SHEPHERD: That's the  
9 control budget that's in place today. It's been in  
10 place since the -- it was adjusted earlier this year,  
11 and it remains the control budget at this time.

12 MR. BOB PETERS: All right. Have you  
13 been given information that suggests that that control  
14 budget is no longer accurate?

15 MR. KELVIN SHEPHERD: No, the review I  
16 hold with the project teams regularly updates me and I  
17 would say that the project team's best view at this  
18 time is that they believe they are on track to the  
19 \$8.7 billion control budget. They may be six (6)  
20 months ahead of plan on schedule.

21 MR. BOB PETERS: Let me help  
22 understand that and make sure the panel's aware. In  
23 this application Manitoba Hydro in IFF-16 updated with  
24 interim has indicated Keeyask was going to be delayed  
25 twenty-one (21) months from its initial in-service

1 date; is that correct?

2 MR. KELVIN SHEPHERD: That's correct.

3 MR. BOB PETERS: And are you now  
4 suggesting that it's possible that it may only be  
5 fifteen (15) months delayed?

6 MR. KELVIN SHEPHERD: It is possible.  
7 Again, the official control budget that we're working  
8 to is -- is 8.7 and it still remains twenty-one (21)  
9 months, but you asked for my most recent information  
10 and I would tell you that right now the project team  
11 believes they could potentially achieve a six (6)  
12 month advancement.

13 MR. BOB PETERS: Mr. Shepherd, there  
14 were additional incremental increases from the \$6.5  
15 billion number that was public and I believe it went  
16 to 7.2 billion, and then to 7.8 billion, and I believe  
17 the source of that was the Boston Consulting Group.

18 Can you confirm that?

19 MR. KELVIN SHEPHERD: Yes, you know,  
20 the -- if I can just draw a little bit of track here  
21 for you. The BCG was engaged by the Board to help  
22 them conduct a review of a number of matters. Some of  
23 the key matters were -- the Keeyask, Bipole, and US  
24 tie-line projects.

25 They were conducting that review during

1 -- pardon me, the summer of 2016 and -- and the Board  
2 reported out on the results of the BCG review I  
3 believe in September of 2016. BCG during their review  
4 which I think as you can appreciate is in the middle  
5 of a peak construction period and 2016 happened to be  
6 really our first full year of concrete placement on  
7 the Keeyask project. So they were reviewing the  
8 project, I would say, in real time as the project was  
9 -- was progressing and they developed their review and  
10 a range of 7.2 billion to 7.8 billion in project costs  
11 and I have to admit, I can't remember the -- offhand  
12 the exact schedule, but also a schedule delay of about  
13 a year, I believe, based upon information they had  
14 available at that time.

15                   That was never a Manitoba Hydro  
16 management estimate. It was simply an estimate that  
17 BCG developed and, by the way, we, you know, believed  
18 and knew at that point in time that costs were  
19 escalating. We could see problems in the construction  
20 during the first year.

21                   But I felt and certainly, you know, I  
22 think my board understood that it would be much more  
23 prudent for us to wait until the completion of that  
24 first year of construction activity and have a really  
25 good understanding first of the progress that we had

1 made during that first year of concrete placement and  
2 then, as importantly, to be able to sit down and work  
3 with our general civil contractor to understand what  
4 improvements and changes we could make going forward  
5 before coming out with a new project estimate.

6                   So the 8.7 billion is the result of  
7 that work. I would say the BCG estimates of 7.2 to  
8 7.8 were directionally correct but did not have the  
9 benefit of the full knowledge of the concrete and  
10 other construction work during the summer and fall of  
11 2016.

12                   MR. BOB PETERS: But in the \$8.7  
13 billion number that's now embedded in IF -- in  
14 Integrated Financial Forecast 16, didn't Manitoba  
15 Hydro take the high end of the Boston Consulting Group  
16 forecast price and add an amount to it?

17                   MR. KELVIN SHEPHERD: No. No, we -- I  
18 think it would be incorrect to assume that we accepted  
19 the -- that we used the BCG estimate as the basis. We  
20 conducted a complete review of the project. The  
21 project team completed that review. They re-examined  
22 all the factors in the actual plan, including sitting  
23 down and developing really what is a revamped  
24 construction schedule of activities; none of that was  
25 available really in the BCG work.

1                   So, I would say the 7.2 to 7.8 was a  
2 reasonable high-level estimate and directionally gave  
3 our Board an understanding that costs were going to  
4 increase on Keeyask, but the actual estimate is based  
5 upon a revised project plan and work schedule that the  
6 project team developed.

7                   MR. BOB PETERS:    Mr. McCallum, when  
8 will Manitoba Hydro produce an Integrated Financial  
9 Forecast 17, if at all?

10                  MR. JAMES MCCALLUM:   We have not  
11 settled on the name for the next integrated financial  
12 forecast. It will go to our Board of Directors in  
13 March of 20,000 -- 2018. I suspect we will name it  
14 IFF18.

15                  MR. BOB PETERS:    Is there a capital  
16 expenditure forecast 17 or will that have a name not  
17 dissimilar to the integrated financial forecast?

18                  MR. JAMES MCCALLUM:   That's correct.  
19 They get developed essentially in parallel.

20                  I also, Mr. Peters, just wanted to come  
21 back to your question on I guess forecasting in  
22 general, and when the revenue requirement panel begins  
23 sitting on Wednesday, I suspect Ms. Carriere will --  
24 will take us through the integrated planning process,  
25 but I'd made the statement about updates to -- to



1 forecasts, and including component pieces of the  
2 forecasts that come into any given integrated  
3 financial forecast.

4                   We do that exercise fairly regularly in  
5 some elements twice a year and we will have, I  
6 believe, on Wednesday a -- at least an indication of  
7 where our export price forecast is coming out kind of  
8 which will go feed into this Integrated Financial  
9 Forecast 18 that you're talking about.

10                   One (1) of our concerns or cautions  
11 with -- with, you know, a -- we're -- we're sensitive  
12 to trying not to overwhelm the Board with -- with  
13 constantly changing forecasts, but the reality is  
14 we're -- we're constantly looking at all of the  
15 variables that go into our forecast. And so we've  
16 elected not to, you know in advance of this hearing,  
17 this oral hearing, advance a new -- prepare in advance  
18 a new financial forecast. We felt there was no need  
19 to do that, but rather just call out, you know, things  
20 that are appearing to develop for better or worse  
21 differently than what -- what's embedded in this  
22 forecast.

23                   MR. BOB PETERS:    Thank you, Mr.  
24 McCallum. Does that timing that you indicated of your  
25 board looking at the integrated financial forecast in

1 March, when will Manitoba Hydro pulled together all  
2 the pieces that are going to result in -- in that  
3 going to the Board in March.

4                   Is that being done right now or is that  
5 -- is that something that will be done early in the  
6 new year?

7                   MR. JAMES MCCALLUM:    Yeah, that's --  
8 that's a process that's underway.  It -- I would say  
9 it picks up in -- in earnest in some of our free time  
10 but we're building towards bringing that through our  
11 internal approval process, inclusive of bringing it to  
12 the executive committee in February, which is the  
13 committee of senior management, and then taking it --  
14 we have an appointment with our board of directors in  
15 mid-to-late March where we'll review and hopefully  
16 have approved the new plan.

17                  MR. BOB PETERS:    Does that suggest to  
18 this Board, Mr. McCallum, that the cycle for Manitoba  
19 Hydro to produce its integrated financial forecast has  
20 shifted from the -- from the fall to the spring?

21                  MR. JAMES MCCALLUM:    You know, there's  
22 probably others that can speak a little better to the  
23 -- the history.  We -- we -- and I joined the company  
24 in September of 2016 and -- and really joined in full  
25 flight of preparing the -- the financial plan that

1 became IFF16 in front of us here.

2                   So I -- my -- certainly my  
3 understanding was in the past there would be a -- this  
4 process would occur more in the -- in the November,  
5 December time frame, maybe a little earlier in some  
6 years, depending on what's going on a little bit  
7 later. But we have, yes, to -- to answer your  
8 question directly, we've moved to a -- a March  
9 timeframe wanting to bring all this together as close  
10 as we can to the first day of our fiscal year.

11                   This is an important tool for managing  
12 the business, in particular, the first year of the  
13 integrated financial forecast is our budget for the  
14 year. And it's pretty conventional in corporate  
15 management to do that process pretty close to the --  
16 to the beginning of your fiscal year.

17                   So we felt that doing all that in the  
18 November, December, or even earlier timeframe left you  
19 a little bit too stale by the time you got to your  
20 fiscal year.

21                   MR. BOB PETERS:    What does that do,  
22 Mr. McCallum, for the planning cycle of Manitoba Hydro  
23 in terms of filing rate applications with this Board?  
24 Does that trigger a change in the window that is  
25 needed by Manitoba Hydro to present those to this

1 Board?

2 MR. JAMES MCCALLUM: No, I don't  
3 believe so. I think that coming out of this process  
4 and, you know, the eventual conclusion of this  
5 process, I think we're -- we're all going to have to  
6 sit down and figure out where we go next in terms of  
7 when the next rate application ought to be. Clearly  
8 in our financial plan, we are seeking -- expecting to  
9 seek rate increases on April the 1st of, you know, of  
10 each year going forward and so we're going to have to  
11 figure out how to -- how to kind of work through that  
12 with -- with the -- with the Public Utilities Board,  
13 but I don't see that by virtue -- the decision taken  
14 to change the planning cycle, to target a March  
15 approval process is one driven, you know, first and  
16 foremost by the needs of the business which is, you  
17 know, how we operate. We look at the needs of the  
18 business.

19 MR. BOB PETERS: Thank you, Mr.  
20 McCallum. Mr. Chair, this might be an appropriate  
21 time to adjourn for the day and I could pick it up  
22 tomorrow morning at nine o'clock.

23 THE CHAIRPERSON: Thank you, everyone.  
24 So we will adjourn now and we will resume at nine  
25 o'clock tomorrow morning. Thank you.

1 --- Upon adjourning at 5:26 p.m.

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5 Certified Correct,

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9 Cheryl Lavigne, Ms.

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