NEWFOUNDLAND AND LABRADOR BOARD OF COMMISSIONERS OF PUBLIC UTILITIES

120 Torbay Road, P.O. Box 21040, St. John's, Newfoundland and Labrador, Canada, A1A 5B2

Hearing Transcript

REFERENCE TO THE BOARD RATE MITIGATION OPTIONS AND IMPACTS MUSKRAT FALLS PROJECT

October 9, 2019

PRESENT:

The Board:

Board Members

Darlene Whalen, Chair Dwanda Newman, Vice-Chair John O'Brien, Commissioner

Parties:

Nalcor Energy /

Newfoundland and Labrador Hydro David Eaton, Q.C., Counsel – Nalcor Gooff Young, Q.C., Counsel – NI, Hydro

 $Geoff\ Young,\ Q.C.,\ Counsel-NL\ Hydro$

Consumer Advocate

Dennis Browne, Q.C. – Consumer Advocate Stephen Fitzgerald, Counsel – Consumer Advocate

Island Industrial Customer Group

Paul Coxworthy, Counsel Denis Fleming, Counsel

Witnesses:

Nalcor Energy / Newfoundland and Labrador Hydro

Power Advisory LLC Panel

John Dalton and Michael Killeavy

Panel 1

Jim Haynes, Executive Vice President, Nalcor Jennifer Williams, President, Newfoundland and Labrador Hydro Michael Roberts, Senior Vice President Corporate Services & CHRO, Nalcor Greg Jones, Director, Nalcor Energy Marketing, Nalcor

Board Counsel / Staff

Maureen Greene, Q.C., Reference Counsel Sara Kean, Assistant Board Secretary

Newfoundland Power

Kelly Hopkins, Counsel Liam O'Brien, Counsel

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	Page 1		Page 3
1	(9 a.m.)	1	retrospective view in terms of trading
2	CHAIR:	2	activity, I think that that could
3	Q. Good morning, everybody. I don't think	3	potentially serve as a distraction from what
4	there's any preliminary matters, so we'll go	4	should be their market focus. So I think
5	right back to you, Mr. Fitzgerald, and you	5	that's a very important issue that needs to
6	can carry on.	6	be considered. I mean, there are other
7	MR. FITZGERALD:	7	issues that have been raised and it depends
8	Q. Thank you, Madam Chair. Good morning,	8	in terms of where within the organization
9	gentlemen.	9	it's going to be. There's a very real
10	MR. DALTON:	10	concern, which all Canadian trading entities
1			
11	A. Good morning.	11	have weighed in on, or many that I've spoken
12	MR. FITZGERALD:	12	to, and that's potential for being subject
13	Q. Just to carry on from where we were	13	to US taxation.
14	yesterday, the starting position that you	14	MR. FITZGERALD:
15	have is that Power Advisory is of the	15	Q. Okay.
16	opinion that NEM's should remain unregulated		MR. DALTON:
17	and outside Hydro's regulated activities?	17	A. So that's why you essentially want to
18	MR. DALTON:	18	financially ring fence it.
19	A. That's correct.	19	MR. FITZGERALD:
20	MR. FITZGERALD:	20	Q. Okay, sure. So I take it then that you
21	Q. Right. So is that a general opinion or	21	haven't actually particularly examined NEM's
22	philosophy you have regarding the regulation	22	operations?
23	of utilities generally, or is it from an	23	MR. DALTON:
24	opinion derived from a close review of NEM's	24	A. No. I think, as I indicated, what we've
25	in particular?	25	provided is kind of a top down analysis
<u> </u>	Page 2		Page 4
1	rage 2		
1	MR DALTON:	1	<u> </u>
1 2	MR. DALTON: A From utilities generally I mean I think	1	review in terms of best practices in North
2	A. From utilities generally. I mean, I think	2	review in terms of best practices in North American electricity markets. So, no, we
2 3	A. From utilities generally. I mean, I think we're talking about an energy marketing	2 3	review in terms of best practices in North American electricity markets. So, no, we haven't been asked to provide an audit or
2 3 4	A. From utilities generally. I mean, I think we're talking about an energy marketing organization, so I would say that generally	2 3 4	review in terms of best practices in North American electricity markets. So, no, we haven't been asked to provide an audit or evaluation of NEM's operations. We have
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2 3 4 5 6	A. From utilities generally. I mean, I think we're talking about an energy marketing organization, so I would say that generally for general marketing organizations that have hydro assets operating with a Crown	2 3 4 5 6	review in terms of best practices in North American electricity markets. So, no, we haven't been asked to provide an audit or evaluation of NEM's operations. We have some understanding in terms of the volumes that they're trading, and have a detailed
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1	A. No, that was not a charge. We were never	1	that I was asked to look at.
2	asked to kind of look at their trading	2	MR. FITZGERALD:
3	processes. I'm not offering opinion in	3	Q. Okay.
4	terms of their reasonableness. I'm offering	4	MR. DALTON:
5	opinion in terms of structurally where	5	A. Others would be able to better speak to
6	should they be within the organization, and	6	this.
7	I feel, based on the analysis that I've	7	MR. FITZGERALD:
8	done, I provide an adequate foundation for	8	Q. Okay, thank you. If we can go to Slide 9 of
	offering an opinion, and it's based on my	9	your presentation, please. The third bullet
10	many years of experience, knowledge of the	10	there if you're with me, it says, "Energy
11	Canadian electricity markets, what other	11	trading is fast paced and requires detailed
12	energy traders do and how they're	12	knowledge of energy markets and risk
	structured.	13	<u> </u>
13	MR. FITZGERALD:		management practices". Now as I understand
14		14	it, Emera used to provide marketing services
15	Q. Okay, I appreciate that, but you wouldn't	15	to Nalcor up to 2015, and correct me if I'm
16	know whether Nalcor is currently operating –	16	wrong there, but is that –
17	NEM's is currently operating efficiently or	17	MR. DALTON:
18	not? I think you just said that, you don't	18	A. That's my understanding. I don't know the
19	know.	19	date in terms of when they stopped, but that
20	MR. DALTON:	20	is my understanding that they did provide
21	A. I wasn't asked to look at that.	21	those services.
22	MR. FITZGERALD:	22	MR. FITZGERALD:
23	Q. So you don't know?	23	Q. Would you be able to comment whether Emera
24	MR. DALTON:	24	would have the detailed knowledge of energy
25	A. I don't know.	25	markets and risk management?
	Page 6		Page 8
1	MR. FITZGERALD:	1	MR. DALTON:
2	A. If I could ask you to turn to page 32 of	2	A. Yes, I would expect that they would.
3	Nalcor's Evidence, and this is the evidence	3	Similar to Nalcor, they have a energy
4	that was filed on the 20th of September. If	4	marketing affiliate, and I think that the
5	we could scroll down to line 22. Now I	5	benefit that Emera would have brought at
6	appreciate this isn't Power Advisory's	6	that time was that was an established entity
7	evidence, but I'd just like you to comment	7	that had experience and knowledge in these
8	on this sentence. It says, "NEM is	8	markets, and my understanding, and Mr. Jones
9	currently subject to rigorous risk oversight	9	can speak to this better than I, but the
10	to monitor NEM's compliance with its	10	strategy that Nalcor employed was to
11	authorized Energy Marketing Risk Management	11	effectively begin to develop the capability
12	Manual, which includes, among a broad range	12	when they had some volumes to trade, and it
13	of topics, approved transaction types,	13	was essentially a deliberate learning
14	limits of delegated authority, and credit	14	process and a measured approach in terms of
15	limits". Do you know what they're referring	15	gaining the skills necessary to compete
16	to there when they talk about rigorous risk	16	successfully in these markets.
17	oversight?	17	MR. FITZGERALD:
18	MR. DALTON:	18	Q. Yes, I think somewhere I read that there was
19	A. My understanding is only derived based on	19	a decision made by Nalcor to switch the
20	reading this sentence, so I really can't	20	marketing or to put it under an internal
20 21	offer a lot of insights here. I mean, I do	21	growth approach, meaning that they wanted to
	offer a for of morgins here. I mean, I do		• • • •
1 22	have some understanding in terms of that	,,,	Organically grow their marketing evacuting
22	have some understanding in terms of that	22	organically grow their marketing expertise.
23	there is an Energy Marketing Risk Management	23	I take it that's –

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1	have any insights in terms of these	1	operations that you're outsourcing.
2	decisions.	2	MR. FITZGERALD:
3	MR. FITZGERALD:	3	Q. So there's no ability when the dust settles,
4	Q. When you spoke with Mr. Jones, did he talk	4	so to speak, after, say, a quarter of
5	to you at all about his experience with, or	5	trading, whether the outsourced trader has
6	NEM's experience with Emera – sorry,	6	made you money or not made you money?
7	Nalcor's experience with Emera?	7	MR. DALTON:
1	MR. DALTON:		
8		8	A. Obviously, you can determine whether they've
9	A. He did generally.	9	made you money. The question is, have they
10	MR. FITZGERALD:	10	made you as much money as they could have.
11	Q. And what was his comment?	11	I think that's the concern.
12	MR. DALTON:	12	MR. FITZGERALD:
13	A. One of the comments he made was in some	13	Q. I guess, and this goes back to our
14	instances he looked at trades and questioned	14	discussion yesterday regarding the different
15	whether the trades were in Nalcor's best	15	focuses of what's required for rate
16	interest, and I think that's one of the	16	mitigation, and, of course, there's
17	conflicts that you potentially have when you	17	references about rate mitigation, and would
18	outsource this service. Now you're working	18	you agree that outsourcing energy trading in
19	with a third party who might have a	19	the near term would result in cost savings
20	portfolio which includes other assets, and	20	for Nalcor?
21	you have to wonder, you know, are all the	21	MR. DALTON:
22	trades that they're doing focused in terms	22	A. No.
23	of maximizing the margins you would realize	23	MR. FITZGERALD:
24	from your portfolio.	24	Q. Why would you not?
25	MR. FITZGERALD:	25	MR. DALTON:
23		23	
,	Page 10	1	Page 12
	Q. In your experience in the industry, is that	1	A. I don't have any basis for, and I don't
2	something that utilities have to watch out	2	think anyone has any basis for coming to
3	for, that their outsourced contractors may	3	such a conclusion I think I therty has
4			such a conclusion. I think Liberty has
I -	not be providing the service that they've	4	indicated that they don't know what that
5	requested, or preferring others?	4 5	indicated that they don't know what that cost would be and they're not sure if
5 6	requested, or preferring others? MR. DALTON:	4	indicated that they don't know what that
	requested, or preferring others?	4 5	indicated that they don't know what that cost would be and they're not sure if
	requested, or preferring others? MR. DALTON:	4 5	indicated that they don't know what that cost would be and they're not sure if there's a market to provide that service.
6 7	requested, or preferring others? MR. DALTON: A. Generally, and it's very difficult to do for	4 5 6 7	indicated that they don't know what that cost would be and they're not sure if there's a market to provide that service. So I can't offer an opinion. My
6 7 8	requested, or preferring others? MR. DALTON: A. Generally, and it's very difficult to do for an energy trading operation.	4 5 6 7 8	indicated that they don't know what that cost would be and they're not sure if there's a market to provide that service. So I can't offer an opinion. My understanding is that one of the reasons why
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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	requested, or preferring others? MR. DALTON: A. Generally, and it's very difficult to do for an energy trading operation. MR. FITZGERALD: Q. So the utility can't police that, they can't ask for accountability from the trader? MR. DALTON: A. These trades happen on an hourly basis, and, you know, you really are not in a position, and this is one of the issues I have with trying to provide oversight in a real time basis of these operations. It's very hard to monitor them, and even when you outsource, based on the volume of transactions, you cannot realistically go back and ensure that in every instance those trades were done to maximize margins for	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	indicated that they don't know what that cost would be and they're not sure if there's a market to provide that service. So I can't offer an opinion. My understanding is that one of the reasons why Nalcor elected to develop the capability internally rather than use Emera was that there were cost savings. So that to me suggests that Nalcor doing the service might, in fact, be lower cost than outsourcing. MR. FITZGERALD: Q. Sorry, you came to that conclusion how? MR. DALTON: A. My understanding, and I think that Mr. Jones will discuss this tomorrow, was that some analysis that Nalcor did indicated that they felt like they could provide the services that Emera was performing for them at a

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1	MR. DALTON:	1	out. I'm talking about why it is
2	A. He needs to speak to the specifics of that.	2	appropriate to have a separate entity
3	I'm just speaking generally.	3	provide this service. So there is another
4	MR. FITZGERALD:	4	strategy and that's contracting out the
5	Q. If we could go to Slide 10, and this is the	5	service. This slide really is focused in
6	rationale that's presented or another one	6	terms of why it's appropriate to have a
7	for having stand-alone trading entities, and	7	stand-alone entity trading operation.
8	one of the rationales set out there is, "To	8	MR. FITZGERALD:
9	shield the parent from the risk of becoming	9	A. I think I understand that. I guess, I was
10	a taxable entity in the US, and remove	10	equating the outsourcing, you'd have the
11		11	
1	affiliates from exposure to risks from		same effect, though, would you not? MR. DALTON:
12	energy marketing activities". Wouldn't this	12	
13	same shielding effect be accomplished if a	13	A. I think I answered that question to the best
14	third party or Emera undertook the trading?	14	of my ability.
15	MR. DALTON:	15	MR. FITZGERALD:
16	A. It depends in terms of the commercial	16	Q. Thank you. Besides the tax risk, are there
17	arrangements that are put in place. That's	17	other risks that you could identify?
18	going to be a difficult negotiation in terms	18	MR. DALTON:
19	of who bears the risk here, and I think that	19	A. Yes, there's the underlying trading risk and
20	some of the evidence that was provided by	20	that's the answer that I gave earlier, and I
21	Liberty confirmed that they were of a	21	feel like there is a number of issues in
22	similar perspective.	22	terms of how that risk would be allocated
23	MR. FITZGERALD:	23	between Nalcor, and to the degree you
24	Q. I'm not sure I understood your answer,	24	decided to outsource this service, to what
25	sorry. The risk that stand-alone NEM's	25	degree the party that was securing the
	Page 14		Page 16
1	would take on is different than the risk	1	contract for these trading operations, to
2	that Emera would take on if they were	2	what degree would they bear some of these
3	trading from a taxable entity perspective?	3	risks, and I think that at the end of the
4	MR. DALTON:	4	day you would want to get to the point where
5	A. From a taxable energy perspective, I'm	5	if they're making trades for you, that
6	sorry, yes, you're correct, that issue would	6	they're making those trades and they're
7	presumably go away. I have to say I'm not a	7	bearing those risks. You're going to have
8	tax lawyer, so as a general practitioner,	8	to compensate them for that, and I think
9	that's my view. I don't want to purport to	9	that that's another way in terms of which
10	be an expert in terms of US tax matters and	10	there could be value that's lost. When you
11	they are complex.	11	•
	1		transact, sometimes there's inefficiencies,
12	(9:15 a.m.)	12	and I think that this is a potential
13	MR. FITZGERALD:	13	inefficiency that can seep into trying to
14	Q. I appreciate that. I'm just trying to	14	structure such an arrangement.
15	understand why it's been presented as the	15	MR. FITZGERALD:
16	rationale. If the protection is not	16	Q. Sure. I guess, I'm trying to visualize the
17	enhanced by Nalcor doing it themselves, then	17	risk and who pays for the risk. If it's
18	I'm just wondering why it's presented as a	18	bargained away, you'll have to pay higher
19	rationale? If I understood your answer	19	for the trading commission, if you will,
20	correctly, there is no difference. The tax	20	because they're going to bear the risk. If
21	consequences of Emera doing it or NEM's	21	a risk or trade goes south and NEM's is
22	doing it are the same, the shielding effect?	22	doing it and they bear all the risk, then
23	MR. DALTON:	23	who pays. I mean, it seems to be six or
24	A. What I'm talking about here is separating	24	one, half dozen of the other. There is a
		25	migle Who become its year recorded with an mary
25	it. I'm not talking about contracting it	25	risk. Who bears it; you would either pay

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1	upfront for the risk if it's outsourced, or	1	through Maritime Link, they are presumably
2	NEM's would bear the risk and rate payers	2	higher. One needs to recognize that Nalcor
3	would pay it?	3	does have a transmission reservation through
4	MR. DALTON:	4	the Hydro Quebec system, and if it uses that
5	A. Is there a question there? I'm not sure -	5	path, those transmission costs have
6	MR. FITZGERALD:	6	essentially been paid.
7	Q. I guess what I'm trying to understand is the	7	MR. FITZGERALD:
8	rationale that you presented, that is that	8	Q. We've heard evidence, I'm not sure if you've
9	there are risks that arise by outsourcing?	9	read the transcripts, but the export sales
10	MR. DALTON:	10	to be managed by NEM's, the export price
11	A. Yeah. Pardon me, but the focus here is not	11	currently may be as low as 3.5 percent per
12	- this is just on a stand-alone entity. I	12	megawatt hour. It's going to be at that 3.5
13	wasn't really talking about outsourcing.	13	cents, sorry, per megawatt hour for a
14	This slide is very focused in terms of why	14	considerable period of time, and 1.2
15	one would want to have a stand-alone entity.	15	megawatts annually are earmarked by the
16	I wasn't getting into the question in terms	16	Energy Access Agreement, and Synapse has
17	of outsourcing.	17	strongly recommended as a rate mitigation
18	MR. FITZGERALD:	18	measure, electrification, and it appears
1		19	**
19	Q. Okay. MR. DALTON:		that they are suggesting that's a preferred
20		20	route to rate mitigation than exports. So
21	A. I know we've had that discussion this	21	in light of that information, in light of
22	morning, so I just feel like we need to be	22	that evidence, should not Nalcor's focus be
23	careful in terms of –	23	on electrification rather than export sales,
24	MR. FITZGERALD:	24	and if that's the case, why do they need a
25	Q. Sure, understand. Let's move on then to	25	marketing arm, why do we need, and why do
	Page 18		Page 20
1	Slide 11, and here there's a critique of	1	they need right now, to organically grow a
2	Liberty. You say that "Liberty has	2	marketing arm?
3	underestimated NEM's position as an	3	MR. DALTON:
4	exporter, and furthermore, Power Advisory	4	A. So a couple of questions there. First of
5	believes that Liberty has inappropriately	5	all, in terms of electrification, I haven't
6	focused on energy volumes rather than	6	looked at that, but I can imagine that there
7	margins and failed to recognize that highly	7	would be value associated with
8	flexible hydroelectric resources offer	8	electrification. That's a long-term
9	higher margins, given their ability to	9	process. That's going to take a while to
10	arbitrage energy prices". Isn't it true	10	happen. We're talking about Muskrat Falls'
11	that in the case, though, of Muskrat Falls	11	volumes being relatively imminent and I feel
12	that there are very high transaction costs	12	like there needs to be capability in place
13	associated with getting this power to the	13	to deliver those to market, and I've kind of
14	North Eastern US?	14	outlined, and I can do it again, the
15	A CD D A T MODE	1.5	· 1 C1'42
	MR. DALTON:	15	rationale for why it's appropriate to have
16	MR. DALTON: A. Are you talking about the transmission	15 16	NEM be the marketing entity for the volumes
16 17			* ** *
	A. Are you talking about the transmission	16	NEM be the marketing entity for the volumes
17	A. Are you talking about the transmission charges?	16 17	NEM be the marketing entity for the volumes that Nalcor has available. I think that
17 18	A. Are you talking about the transmission charges?MR. FITZGERALD:	16 17 18	NEM be the marketing entity for the volumes that Nalcor has available. I think that there's a compelling case for that, and
17 18 19	A. Are you talking about the transmission charges?MR. FITZGERALD:Q. Yeah.	16 17 18 19	NEM be the marketing entity for the volumes that Nalcor has available. I think that there's a compelling case for that, and we've discussed a lot of that this morning.
17 18 19 20	A. Are you talking about the transmission charges?MR. FITZGERALD:Q. Yeah.MR. DALTON:	16 17 18 19 20	NEM be the marketing entity for the volumes that Nalcor has available. I think that there's a compelling case for that, and we've discussed a lot of that this morning. So I think one needs to recognize that first
17 18 19 20 21	 A. Are you talking about the transmission charges? MR. FITZGERALD: Q. Yeah. MR. DALTON: A. I don't know if it's appropriate to 	16 17 18 19 20 21	NEM be the marketing entity for the volumes that Nalcor has available. I think that there's a compelling case for that, and we've discussed a lot of that this morning. So I think one needs to recognize that first of all, electrification, if it is going to
17 18 19 20 21 22	 A. Are you talking about the transmission charges? MR. FITZGERALD: Q. Yeah. MR. DALTON: A. I don't know if it's appropriate to characterize them as high, but there are 	16 17 18 19 20 21 22	NEM be the marketing entity for the volumes that Nalcor has available. I think that there's a compelling case for that, and we've discussed a lot of that this morning. So I think one needs to recognize that first of all, electrification, if it is going to be successful, it's going to take a while. I would also make the point that there are,
17 18 19 20 21 22 23	 A. Are you talking about the transmission charges? MR. FITZGERALD: Q. Yeah. MR. DALTON: A. I don't know if it's appropriate to characterize them as high, but there are transmission charges that have to be paid. 	16 17 18 19 20 21 22 23	NEM be the marketing entity for the volumes that Nalcor has available. I think that there's a compelling case for that, and we've discussed a lot of that this morning. So I think one needs to recognize that first of all, electrification, if it is going to be successful, it's going to take a while.

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1	what would be available for export markets	1	offer my opinion on that. We saw
2	within that time, there could be additional	2	Massachusetts offer a contract for ten
3	volumes that could be made available to the	3	terawatt hours of energy. There's some
4	export markets. Mr. Marshall talked	4	recognition that if you're going to get the
5	yesterday about runner replacements and	5	type of resources that you need to allow
6	indicated that that would be about 100	6	these northeast energy markets achieve their
7	megawatts. That's not an insignificant	7	greenhouse gas mitigation targets that there
8	volume of energy, additional energy, that	8	is going to be a need for long term
9	would be available in export markets. To	9	contracts to support the development of
10	some degree, Nalcor has a portfolio of	10	projects and to provide any necessary
11	future generation development investment	11	certainty to finance the required
12	options, which I would think, based on	12	investment.
13	adequate market and appropriate market	13	MR. FITZGERALD:
14	conditions, it could elect to develop with	14	Q. Yes, well, and I suppose we could debate
15	partnerships, as I've mentioned, and through	15	that, but I mean, you know, one of the
16	a range of strategies which would hopefully	16	things that Liberty had suggested was the
17	be able to de-risk it from the province's	17	problem with generation, of course, is that
18	perspective.	18	there is a carbon push, but there is also
19	MR. FITZGERALD:	19	wind and solar that's scrimping in on the
20	Q. Yeah, but again I think there's a departure	20	development of hydroelectric. So, you know,
21	there. You're now speaking of the future	21	I guess there's – you know, there's a debate
22	and we're speaking of the present and what	22	there.
23	can be done in the present to mitigate	23	But what we see, I mean, I guess the
24	rates. You say it's going to take some time	24	empirical evidence is that the current price
25	for electrification to take effect.	25	of electricity is 3.5 cents a kilowatt hour
	Page 22		Page 24
1	Likewise, I understand, and correct me if	1	in northeastern United States. We have the
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Octob	er 9, 2019		Muskrat Falls Rate Mitigation Hearing
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1	increasing interest. One of the themes	1	before them the evidence of Liberty and they
2	you've heard from me in the last 24 hours is	2	have weighed in on the issue of future
3	greenhouse gas emission reductions and how	3	generation. You know, and I guess the
4	those are going to be achieved.	4	overarching issue here is we get the sense –
5	Last Thursday, the New York independent	5	and again, we spoke about this yesterday
6	system operator, the party that's	6	that Power Advisory use Nalcor as a
7	responsible for planning the New York	7	potential future developer of
8	system, came out with a report suggesting	8	hydroelectricity and with that comes the
9	that a price on carbon was the most	9	necessity for marketing arms, et cetera.
10	efficient cost effective way and fastest way	10	I guess where we – our point of
11	to achieve the State's very aggressive	11	departure, I guess, is that we have evidence
12	carbon reduction goals. Remember, they're a	12	that indicates that – well, firstly, we know
13	state that taking by 2040 to have	13	there's no money left from rate payers to do
14	essentially 100 percent carbon free	14	any development and it looks like the
15	electricity system. So, they're suggesting	15	experts say that generation is not likely to
16	let's impute a social cost of carbon on	16	occur in hydroelectricity in any event.
17	generation in the market.	17	MR. DALTON:
18	So, quick analysis that we did,	18	A. Well, I have to say I'm of a different
19	depending in terms of the generation type	19	opinion with respect to that last point. I
20	resource you're talking about, the price	20	hail from Boston. I worked for NYSERDA and
21	impact would be 15 to \$20 per megawatt hour,	21	hopefully I'm a credible witness in terms of
22	if New York were to implement such a policy.	22	being able to provide some expertise in
23	That's going to help in terms of supporting	23	terms of the New England market and the New
24	the type of clean energy investment that's	24	York market. These are my backyards. I
25	available in this province.	25	spoke yesterday in terms of the clients that
	Page 26		Page 28
1	The New York State Energy Research	1	I've advised, looking at export
2	Development Authority, NYSERDA, who's the	2	opportunities from Atlantic Canada to these
3	contract counterparty in that market,	3	markets. I won't repeat that. This is –
4	typically offers parties long-term	4	you know, this is much of what I do and I
5	contracts, 20-year contracts to support	5	work with the buyers and I work with the
6	their generation investment and they're	6	sellers and it provides me with an informed
7	using this to essentially move the market to	7	opinion.
8	clean energy.	8	Your previous question, there were two
9	(9:30 a.m.)	9	there, was, you know, the value of NEM
10	In terms of wind and solar, they're a	10	today. I think that a case can be made, and
11	great, you know, valuable resource. But you	11	I think it's a compelling case, that based
12	can't achieve 100 percent carbon free	12	on the need to trade three and a half
13	electricity system just with wind and solar.	13	terawatt hours of energy and the additional
14	Now that's why Massachusetts elected to	14	value that you're going to get from having
15	procure ten megawatt – or excuse me, ten	15	NEM acting in the best interest of
16	terawatt hours of hydroelectricity. Because	16	Newfoundland and Labrador customers that
17	they want it essentially as baseload	17	that's going to, you know, justify having
18	resource that would help them achieve their	18	NEM as a separate entity.
19	greenhouse gas emission goals. I think it's	19	I'm not convinced that there's a case
20	reasonable to assume that New York might	20	that outsourcing this function is going to
21	ultimately look for something similar.	21	result in a lower cost and I think that
22	MR. FITZGERALD:	22	there are, you know, very real issues
23	Q. Thanks. I guess, you know, I'm not sure if	23	associated with potential conflicts and
24 25	you filed anything to that effect, but we're	24	ensuring that any party that you outsource
. /-	going to be – or I guess the Board has	25	this service to is always acting in your

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2 MR. FITZGERALD: 3 Q. I appreciate that, your evidence. I'm not disparaging your credibility, sir. I'm just 5 — you've indicated that it's your opinion 6 that having NEM adds value and there is 6 potential conflicts if there's a daded value, it would be difficult to 11 measure if we don't have any benchmarks. 11 measure if we don't have any benchmarks. 12 So, that's — you know, you say it's adding value. I don't see any number. 14 MR. DALTON: 15 A. I don't see a question there for me? 16 there a question there for me? 17 MR. FITZGERALD: 18 Q. Yeah. Can you identify in a term or in any kind of metric that we can measure the added value that NEM provides? 21 MR. DALTON: 22 A. This stuff is — you know, and it's frankly 24 much the same issue that you'd get to in terms of providing regulatory oversight 29 difficult to, you know, evaluate this in terms of what's the incremental revenue 20 MR. KILLEAVY: A. Yeah, I mean, I'll take this one. I mean, I've used benchmarking in reorganizations and in organizational design. It's a useful tool. Again, my scope was to provide comments on the Liberty report, which that' the starting point for me, and that's really all I saw in that report was it was basically a benchmarking ecomments on the Liberty report, which that' the starting point for me, and that's really all I saw in that report was it was basically a benchmarking in reorganizations and in organizations and in organizat
Q. I appreciate that, your evidence. I'm not disparaging your credibility, sir. I'm just 5 — you've indicated that it's your opinion 6 that having NEM adds value and there is potential conflicts if there's a third party 7 trades. Our issue is that none of that has been quantified. We don't – if there's 9 dadded value, it would be difficult to 11 measure if we don't have any benchmarks. 12 So, that's – you know, you say it's adding 13 value. I don't see any number. 14 MR. DALTON: 15 A. I don't see a question there for me. Is 16 there a question there for me? 17 MR. FITZGERALD: 18 Q. Yeah. Can you identify in a term or in any kind of metric that we can measure the added 20 value that NEM provides? 21 MR. DALTON: 22 A. This stuff is – you know, and it's frankly 24 much the same issue that you'd get to in 25 difficult to, you know, evaluate this in 2 difficult to, you know, evaluate this in 13 terms of what's the incremental revenue 13 A. Yeah, I mean, I'll take this one. I mean, I've used benchmarking in reorganizations and in organizational design. It's a useful tool. Again, my scope was to provide comments on the Liberty report, which that' the starting point for me, and that's really all I saw in that report was it was 10 basically a benchmarking in reorganizations and in organizational design. It's a useful tool. Again, my scope was to provide comments on the Liberty report, which that' the starting point for me, and that's really tool. Again, my scope was to provide comments on the Liberty report, which that' the starting point for me, and that's really all I saw in that report was it was 10 basically a benchmarking in reorganizations and in organizations and
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3 terms of what's the incremental revenue 3 MR. COXWORTHY:
4 going to be from different situations. You 4 Q. I'm counsel for the Island Industrial
5 know, we're talking about my experience in 5 Customer Group. I'd like to start off
6 the industry and it's my opinion. I haven't 6 following up with some questions that wer
7 done any analysis. I think that it's 7 asked by the Consumer Advocate with res
8 something that's difficult to put dollars 8 to Nalcor Energy Marketing and the market
9 to. 9 function, and perhaps we could turn back to
10 MR. FITZGERALD: 10 slide 11 of the Power Advisory presentation
11 Q. Thank you. Just turning now briefly to 11 In the last bullet on that slide is
slide 19 and just a couple of questions 12 that "Power Advisory was unable to find
really on these. The bottom bullet there, 13 precedent in Canada for a utility with a
you say "benchmarking exercise without 14 portfolio the size of Nalcor's that
deeper consideration of executive 15 contracts out this core capability." When
16 organizational effectiveness or the 16 you say "portfolio the size of Nalcor's" are
17 underlying differences between utilities" – 17 you including in that the potential of Gull
underlying differences between utilities" – 17 you including in that the potential of Gull and this comment here stood out, you said 18 Island and the potential to market Churchi
17 underlying differences between utilities" – 17 you including in that the potential of Gull 18 and this comment here stood out, you said 19 Island and the potential to market Churchi 19 Falls power in 2041 or are you only meani
underlying differences between utilities" – 17 you including in that the potential of Gull and this comment here stood out, you said 18 Island and the potential to market Churchi 19 "we have not observed the use of such 20 benchmarking in reorganizations or 20 by that the currently available portfolio
underlying differences between utilities" – 17 you including in that the potential of Gull and this comment here stood out, you said 18 Island and the potential to market Churchi 19 "we have not observed the use of such 20 benchmarking in reorganizations or 20 by that the currently available portfolio 21 specifically in regulatory proceedings 21 for sale out of the province?
underlying differences between utilities" – and this comment here stood out, you said "we have not observed the use of such benchmarking in reorganizations or 21 specifically in regulatory proceedings concerning utility rate structures." So, 17 you including in that the potential of Gull Island and the potential to market Churchi 19 Falls power in 2041 or are you only meani 20 by that the currently available portfolio 21 for sale out of the province? 22 MR. DALTON:
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	er 9, 2019		Muskrat Falls Rate Mitigation Hearing
	Page 33		Page 35
1	MR. COXWORTHY:	1	securing value in markets, and having a
2	Q. So, you're not including Gull Island or what	2	marketing entity would allow them to, if
3	power may be available after 2041 from	3	there's some transmission that becomes
4	Churchill Falls?	4	available, to be able to value that and make
5	MR. DALTON:	5	decisions in real time that yeah, there's
6	A. No.	6	real value in terms of contracting for that
7	MR. COXWORTHY:	7	and helping us to enhance the value that we
8	Q. And I understand one of the recommendations	8	can deliver for customers.
9	of Liberty in this regard is not necessarily	9	MR. COXWORTHY:
10	to do away with having within the core	10	Q. And is it your evidence that that type of
11	capability of Nalcor a marketing division,	11	experience couldn't be gained by Nalcor
12	but to look at the market, to look at what is available out there in terms of other	12 13	through its interactions with a third party
13		14	contractor providing these marketing services?
14	organizations that could be contracted to	15	MR. DALTON:
15	provide these marketing services.	16	
16	My understanding of Liberty's	17	A. Well, obviously the integration issue is one
18	recommendation is why not task Nalcor with having a look at that, not a request for	18	which argues for there being an entity within Nalcor, Nalcor Energy Marketing, you
19	proposals, but some sort of formal level of	19	know, and when I'm talking about
20	• •	20	integration-
20 21	inquiry of the market that can be documented, that can be reported on back to	21	MR. COXWORTHY:
22	this Board. What reason can you give why	22	
23	Nalcor oughtn't to do that?	23	Q. Can you explain what you mean by the integration issue?
24	MR. DALTON:	24	MR. DALTON:
25	A. I feel like that was much of the discussion	25	A. The integration, you know, the fact that
25		23	<u> </u>
1	Page 34	l	Page 36
	that I previously had	l 1	water management is critical in terms of
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	that I previously had.	1 2	water management is critical in terms of
2	MR. KILLEAVY:	2	affecting the energy that you have available
2 3	MR. KILLEAVY: A. Yeah.	2 3	affecting the energy that you have available for trade.
2 3 4	MR. KILLEAVY: A. Yeah. MR. DALTON:	2 3 4	affecting the energy that you have available for trade. MR. COXWORTHY:
2 3 4 5	MR. KILLEAVY: A. Yeah. MR. DALTON: A. As indicated here, it's a core capability.	2 3 4 5	affecting the energy that you have available for trade. MR. COXWORTHY: Q. So, is it the water management issue that's
2 3 4 5 6	MR. KILLEAVY: A. Yeah. MR. DALTON: A. As indicated here, it's a core capability. There is, you know, important value in terms	2 3 4 5 6	affecting the energy that you have available for trade. MR. COXWORTHY: Q. So, is it the water management issue that's driving the need for Nalcor to have
2 3 4 5 6 7	MR. KILLEAVY: A. Yeah. MR. DALTON: A. As indicated here, it's a core capability. There is, you know, important value in terms of, you know, coordination within Nalcor.	2 3 4 5 6 7	affecting the energy that you have available for trade. MR. COXWORTHY: Q. So, is it the water management issue that's driving the need for Nalcor to have marketing as a core capability?
2 3 4 5 6 7 8	MR. KILLEAVY: A. Yeah. MR. DALTON: A. As indicated here, it's a core capability. There is, you know, important value in terms of, you know, coordination within Nalcor. We're talking about the energy that's going	2 3 4 5 6 7 8	affecting the energy that you have available for trade. MR. COXWORTHY: Q. So, is it the water management issue that's driving the need for Nalcor to have marketing as a core capability? MR. DALTON:
2 3 4 5 6 7 8 9	MR. KILLEAVY: A. Yeah. MR. DALTON: A. As indicated here, it's a core capability. There is, you know, important value in terms of, you know, coordination within Nalcor. We're talking about the energy that's going to be traded is going to be from two	2 3 4 5 6 7 8 9	affecting the energy that you have available for trade. MR. COXWORTHY: Q. So, is it the water management issue that's driving the need for Nalcor to have marketing as a core capability? MR. DALTON: A. No, I think I've outlined a number of
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Page 37 associated with potential conflicts of 1 Is the information that you used to plot out 1 2 interest, ensuring that this third party is 2 this scope, is it based on the North America 3 always trading to maximize the margins that 3 Utility Summaries that are found at Appendix 4 are realized from trades and not giving any 4 A to your report or to Hydro's evidence? 5 consideration to other positions that they 5 MR. DALTON: 6 might have. I think that that's - you know, 6 Generally, yes. Α. 7 that's a critical issue as well. 7 MR. COXWORTHY: 8 MR. COXWORTHY: 8 Q. What other information, other than the 9 9 Do other utilities in the United States use information in Appendix A, did you bring to 10 third party contracting for their marketing 10 bear? MR. DALTON: 11 services? 11 12 12 MR. DALTON: Α. Basically our market knowledge. I mean, the I'm sure there are some. I think that -13 intent here for this figure was 13 14 MR. COXWORTHY: 14 illustrative, to try to graphically show it. It's not - it's by no means quantitative. 15 You're not familiar with them? You're not 15 Q. You know, it's a qualitative assessment. 16 familiar with the third parties providing 16 MR. COXWORTHY: 17 these marketing services? 17 18 MR. DALTON: 18 Q. But it is a ranking, isn't it? Even if we I'm sure there are some. I'd say that for can't put a number on it. You don't have 19 19 A. one to ten, but you certainly have arrows 20 hydroelectric utilities, it is not common. 20 21 MR. COXWORTHY: 21 that go more regulation and less regulation and you're plotting these different 22 22 In Canada or in the United States? utilities, these different jurisdictions at 23 MR. DALTON: 23 24 different places along that line. 24 In Canada and the United States. A. 25 MR. COXWORTHY: 25 MR. DALTON: Page 38 Page 40 1 Q. Thank you. I'd like to move on to another 1 A. Yeah. I feel like a ranking suggests that 2 line of questioning. If we could go to page 2 there's greater, you know, quantitative 3 four of your report, which is at Appendix 1 3 analysis that underlies this than really is 4 of Hydro's evidence that was filed on 4 here. It's more we're trying to make a 5 5 September 19th. And at page four – again, point in terms of – 6 this would be of the Appendix 1 report. I 6 (9:45 a.m.) 7 don't think we're there, quite there yet. 7 MR. KILLEAVY: 8 Page 4 of 87. Yes, thank you. If we could 8 It's a qualitative assessment. 9 scroll down to just above the heading 9 MR. DALTON: 10 "Assessing Nalcor's Organizational 10 Yes. A. Structure". MR. COXWORTHY: 11 11 So, if you brought other information to bear 12 And I just want to read a line there in 12 the paragraph above. "Figure 1 reviews the other than what's in the Appendix A 13 13 14 degree of regulation across Canada by 14 summaries in plotting this, you say your 15 province. As indicated, Hydro is currently 15 market knowledge. So, your knowledge of 16 relatively heavily regulated with Power 16 what's going on in these individual Supply effectively unregulated, similar, provinces? 17 17 18 albeit with less oversight to generators and 18 MR. DALTON: 19 retailers in Alberta." 19 Α. Yes. 20 And now, if we could turn to the next 20 MR. COXWORTHY: 21 21 page, which has Figure 1. Thank you. And I And is that information consistent with Q. 22 wanted to ask you some questions about how 22 what's in the Appendix A summaries or did 23 you went about preparing this Figure 1, 23 you go to the Appendix summaries and say which is intended to depict the scope of "gee, that's not quite the way we think it 24 24 regulatory oversight by province in Canada. works in that province" and we're going to -25 25

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1	MR. DALTON:	1	Trans Energy and Hydro Quebec Distribution.
2	A. I believe it is. I believe it is.	2	So, Hydro Quebec Trans Energy obviously is
3	MR. COXWORTHY:	3	the transmission entity, subject to
4	Q. Okay, thank you. Just – I'm not going to	4	regulation, and essentially, you know, cost
5	ask you to do this for every jurisdiction	5	of service regulation. And then Hydro
6	here, but I just want to go through the	6	Quebec Distribution, similar, you know,
7	exercise if we can of your explaining how	7	subject to regulation.
8	you positioned Quebec in relation to	8	MR. COXWORTHY:
9	generation, transmission and retail, in	9	Q. I think that's my misunderstanding then of
10	terms of whether they're at the less	10	your evidence. The heritage contract then
11	•	11	affects your weighting of Quebec in relation
1	regulation end of the spectrum or the more	12	
12	regulation of the spectrum. And again, I'm		to the generation function?
13	not going to take you through every	13	MR. DALTON:
14	jurisdiction, but I think I would find it	14	A. Yes, yes.
15	useful and I hope the Board would find it	15	MR. COXWORTHY:
16	useful to understand, you know, why is	16	Q. Okay. Thank you. Sorry about my confusion
17	Quebec positioned in respect of different	17	there. So, is there any other difference
18	functions in different places on this.	18	between the level of regulation between the
19	MR. DALTON:	19	current Nalcor Power Supply, which you have
20	A. Sure. So, in terms of the generation, to	20	at the very I'm going to say extreme of your
21	start at the top, so we'd be speaking about	21	figure in terms of regulation – any
22	Hydro Quebec production and they are quite	22	difference between Nalcor Power Supply and
23	unregulated. The one thing, one element of	23	Hydro Quebec Production other than the
24	regulation that caused me to move them	24	heritage contract that would explain why
25	towards more regulation was the heritage	25	Nalcor Power Supply is considered by you to
	Page 42		Page 44
1	contract. Essentially the obligation that	1	be that much more or less regulated?
2	they have to provide 165 terawatt hours of	2	MR. DALTON:
3	energy to their customers at a set price,	3	A. I think that's pretty much what comes to
4	which escalates over time. So, it's what we	4	mind. I think that one of the issues I have
5	refer to as regulation by contract for that	5	with this, and where it's very much
6	volume of energy. Outside that, they've	6	illustrative, is I could have stacked the
7	got, you know, quite a bit of flexibility.	7	Power Supply above Alberta, but maybe move
8	So, that's why this is illustrative. If it	8	it a little further to the left to the less
9	doesn't capture that complexity, where do	9	regulation side, but it just wasn't worth,
10	* * *	10	
1	you put them on that? That's just – I used		you know, and I think that's probably a
11	my judgment and said, okay, they're not like	11	more accurate representation of where it
12	a generator in Alberta that's, you know,	12	belongs. But I think that the heritage
13	participating in the market. They're not	13	contract was, you know, the one thing that
14	like Newfoundland and Labrador Power Supply,	14	caused me to move Hydro Quebec Production
15	I mean, so -	15	closer to the more regulation side.
16	MR. COXWORTHY:	16	MR. COXWORTHY:
17	Q. No, so that would explain, correct me if I'm	17	Q. In your opinion, is the current level of
18	wrong, why Quebec at the transmission	18	regulatory oversight that Hydro-Quebec in
19	distribution retail portion of its functions	19	all its functions has? Does it impair its
20	is towards the more regulation end, the	20	marketing activities? Is it a good or bad
21	heritage contract?	21	model for Newfoundland Power and Nalcor to
22	MR. DALTON:	22	look to in that regard?
1	A. No, it's basically the transmission,	23	MR. DALTON:
23	A. No, it s dasically the transfillission,	23	WIK. DALTON.
23 24	distribution and retail, so those would be	24	A. So, you're talking about the regulatory
	· · · · · · · · · · · · · · · · · · ·		

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1	MR. COXWORTHY:	1	Appendix A. And I guess, starting with
2	Q. Yes, has it impaired its marketing, the	2	page, I'm sorry, with page 40 and the first
3	level of regulatory oversight?	3	block there of Nalcor's operations. And
4	MR. DALTON:	4	Nalcor's operations are currently divided
5	A. Not to my knowledge.	5	between Power Development and Power Supply,
6	MR. COXWORTHY:	6	and then, of course, there's also Hydro and
7	Q. Yes. And has it impaired their ability to	7	Offshore Development, but there is that
8	pursue new developments? Have you seen any	8	distinction now under the current structure
9	evidence of Hydro-Quebec's level of	9	between Power Development and Power Supply,
10	regulatory oversight?	10	is there not?
11	MR. DALTON:	11	MR. DALTON:
12	A. No, I think that the real driver in terms of	12	A. Yes.
13	Hydro-Quebec's success with respect to	13	MR. COXWORTHY:
14	developments is their balance sheet. Right?	14	Q. And can you provide any insight on whether
15	That's –	15	you think that distinction does or does not
16	MR. COXWORTHY:	16	impair the ability of Hydro to market its
17	Q. Which you build up over a period of years?	17	power? Is there anything about maintaining
18	Is that fair? You don't end up—wake up one	18	that type of distinction that would cause
19	day and have the type of balance sheet that	19	you to think that's going to impair Nalcor's
1	Hydro-Quebec has, do you?	20	ability to market surplus power?
20	MR. DALTON:	20	MR. DALTON:
21			
22	A. That's correct.	22	A. No, it's frankly not something that I've—
23	MR. COXWORTHY:	23	it's the first time I've considered it, but
24	Q. Yes. And Nalcor and Hydro is well away from		- MD COVINODEIN
25	being in that type of position?	25	MR. COXWORTHY:
	Page 46		Page 48
1	MR. DALTON:	1	Q. Yes. And you have said that you didn't
2	A. That's right. And I take it that that's why	2	drill down and it wasn't your scope to drill
3	whenever I talk about development	3	down and look at levels of FTEs and who is
4	opportunities, I try to stress the fact that	4	doing exactly what within the organization.
5	there's a way to development projects in a	5	I mean, I'm paraphrasing maybe too broadly,
6	way that you're not putting customers at	6	but is that fair for me to say?
7	risk or necessarily the province at risk.	7	MR. DALTON:
8	MR. COXWORTHY:	8	A. That's fair.
9	Q. Staying for the moment with Appendix A to	9	MR. COXWORTHY:
10	your report, the North America Utilities	10	Q. You did not do that sort of thing?
11	Summaries, who prepared the summaries? Did		MR. DALTON:
12	Power Advisory prepare them? Were they	12	A. Yes, yeah.
13	prepared by Nalcor/Hydro for you?	13	MR. COXWORTHY:
14	MR. DALTON:	14	Q. Drilling down. But if we look then at page
15	A. We prepared them.	15	41, and this is the Organizational Structure
16	MD COMMODIUM	16	Insights, and the first bullet is there.
17	MR. COXWORTHY:	10	misignes, and the more cancer is there.
1/	MR. COXWORTHY: Q. Okay. And apart from the Nalcor/Hydro	17	And you'll see that these two components,
18			o ,
	Q. Okay. And apart from the Nalcor/Hydro	17	And you'll see that these two components,
18	Q. Okay. And apart from the Nalcor/Hydro information, which I presume Nalcor and	17 18	And you'll see that these two components, Power Supply and Power Development, they
18 19	Q. Okay. And apart from the Nalcor/Hydro information, which I presume Nalcor and Hydro just provided to you directly, did you	17 18 19	And you'll see that these two components, Power Supply and Power Development, they have their own separate executive vice-
18 19 20	Q. Okay. And apart from the Nalcor/Hydro information, which I presume Nalcor and Hydro just provided to you directly, did you independently obtain or confirm all the	17 18 19 20	And you'll see that these two components, Power Supply and Power Development, they have their own separate executive vice- presidents. It doesn't say it, but I think
18 19 20 21	Q. Okay. And apart from the Nalcor/Hydro information, which I presume Nalcor and Hydro just provided to you directly, did you independently obtain or confirm all the information on those summaries?	17 18 19 20 21	And you'll see that these two components, Power Supply and Power Development, they have their own separate executive vice-presidents. It doesn't say it, but I think it's reasonable to presume they probably
18 19 20 21 22	Q. Okay. And apart from the Nalcor/Hydro information, which I presume Nalcor and Hydro just provided to you directly, did you independently obtain or confirm all the information on those summaries? MR. DALTON:	17 18 19 20 21 22	And you'll see that these two components, Power Supply and Power Development, they have their own separate executive vice-presidents. It doesn't say it, but I think it's reasonable to presume they probably have their own separate sets of employees.
18 19 20 21 22 23	 Q. Okay. And apart from the Nalcor/Hydro information, which I presume Nalcor and Hydro just provided to you directly, did you independently obtain or confirm all the information on those summaries? MR. DALTON: A. Yes. 	17 18 19 20 21 22 23	And you'll see that these two components, Power Supply and Power Development, they have their own separate executive vice-presidents. It doesn't say it, but I think it's reasonable to presume they probably have their own separate sets of employees. Perhaps there's some overlap between the

	er 9, 2019		Muskrat Falls Rate Mitigation Hearing
1	Page 49		Page 51
1	Hydro that exist now to carry out those two	1	MR. COXWORTHY:
2	distinct functions. Would maintaining that	2	Q. And why couldn't that information be shared
3	structure impair Nalcor's ability to pursue	3	even if marketing was not within the Power
4	future power developments, whether that's	4	Supply Division, but was nested in another
5	Gull Island or opportunities that might be	5	division of Nalcor?
6	there in relation to Churchill Falls that	6	MR. DALTON:
7	Mr. Marshall spoke to yesterday?	7	A. It could be shared. You know, the question
8	MR. DALTON:	8	is, are you going to lose anything in terms
9	A. I don't think it would impair it. It might	9	of that sharing? You know, is there some
10	not be the optimal structure moving forward	10	potential inefficiency there? We didn't get
11	in terms of recognizing cost considerations,	11	to that, you know, and I'm not—so, I can't
12		12	
1	but I'm not sure your question was regarding		offer an opinion in terms of what's the cost there.
13	whether it would impair ability – MR. COXWORTHY:	13	MR. COXWORTHY:
14		14	
15	Q. Oh, you're right. I certainly wasn't asking	15	Q. Apart from the costs of that, the cost of
16	about optimal administrative costs.	16	putting someone—people in a different
17	MR. DALTON:	17	building or a different reporting and maybe
18	A. Yeah.	18	having more employees or more executives for
19	MR. COXWORTHY:	19	that, is there any other impairment to the
20	Q. I was asking about whether it would impair	20	marketing function of having the marketing
21	the functions.	21	function nested in an organization or apart
22	MR. DALTON:	22	of, sorry, Nalcor, other than the Power
23	A. Yeah.	23	Supply as it's currently constituted?
24	MR. COXWORTHY:	24	MR. DALTON:
25	Q. The Nalcor mandate. If we could turn to—I	25	A. I think it depends in terms of where within
	Page 50		Page 52
1	apologize here. I should have the page	1	the organization you're talking about, you
2	reference at my fingertips, but it's in the	2	know.
3	evidence of—yes, I'm sorry. It's at page 7	3	MR. COXWORTHY:
4	of the Nalcor/Hydro Evidence. So, not your	4	Q. Well, let's say it still would be in an
5	report. And if we could scroll up a bit,	5	
			unregulated division. I'm not suggesting—it l
			unregulated division. I'm not suggesting—if
6 7	yes. The Power Development and the Power	6	it was its own stand-alone division for
6 7	yes. The Power Development and the Power Supply bullets there which describe the—	6 7	it was its own stand-alone division for example?
6 7 8	yes. The Power Development and the Power Supply bullets there which describe the—currently, the different functions in	6 7 8	it was its own stand-alone division for example? MR. DALTON:
6 7 8 9	yes. The Power Development and the Power Supply bullets there which describe the—currently, the different functions in relation to those two divisions of Nalcor.	6 7 8 9	it was its own stand-alone division for example? MR. DALTON: A. So, we're not talking about costs?
6 7 8 9 10	yes. The Power Development and the Power Supply bullets there which describe the—currently, the different functions in relation to those two divisions of Nalcor. And I wanted to look at the Power Supply and	6 7 8 9 10	it was its own stand-alone division for example? MR. DALTON: A. So, we're not talking about costs? MR. COXWORTHY:
6 7 8 9 10 11	yes. The Power Development and the Power Supply bullets there which describe the—currently, the different functions in relation to those two divisions of Nalcor. And I wanted to look at the Power Supply and you'll see that included under Power Supply	6 7 8 9 10 11	it was its own stand-alone division for example? MR. DALTON: A. So, we're not talking about costs? MR. COXWORTHY: Q. No.
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6 7 8 9 10 11 12 13 14	yes. The Power Development and the Power Supply bullets there which describe the—currently, the different functions in relation to those two divisions of Nalcor. And I wanted to look at the Power Supply and you'll see that included under Power Supply is the marketing and commercial activities. Is there anything about marketing and commercial activities that indicate that	6 7 8 9 10 11 12 13 14	it was its own stand-alone division for example? MR. DALTON: A. So, we're not talking about costs? MR. COXWORTHY: Q. No. MR. DALTON: A. We're just talking about – MR. COXWORTHY:
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	Page 53		Page 55
1	assessing new developments? Is there any	1	Q. Sure, and you're saying –
2	need for whatever division of Nalcor's	2	MR. DALTON:
3	that's responsible for those function to	3	A. So, yeah, I guess I am.
4	also be responsible for making the decisions	4	MR. COXWORTHY:
5	about what should be the ongoing operation	5	Q. And you're saying, "Having a division such
6	and maintenance expenses to be spent on	6	as Innovation or Power Development and Power
7	Muskrat Falls assets, Labrador Island Link	7	Supply ensures that this capability," et
8	assets, Labrador Transmission assets? Does	8	cetera. So, that seems to me that you're
9	the marketing and the new development	9	saying they're pretty similar?
10	function require that there be close liaison	10	MR. DALTON:
11	between that and decisions on an ongoing	11	A. Yes.
12	basis, future decisions, but how much needs	12	MR. COXWORTHY:
13	to be spent annually to sustain the MFP LIL	13	Q. If we could turn then to pages 51 and 52 of
14	and LTA assets?	14	the Appendix A, sir. It's 52 of page—of 87.
15	(10:00 a.m.)	15	Sorry, 51 of 87. And I guess, looking at
16	MR. DALTON:	16	this summary, I was trying to figure out
17	A. I think we're starting to get kind of	17	where and how Innovation fits in into the
18	further afield from what we were asked—what		grand scheme of things at Hydro-Quebec. Of
19	I was asked to look at.	19	course, the—on page 51, there's a profile,
20	MR. COXWORTHY:	20	four major divisions, production. And I
21	Q. Fair enough. If you say that's not a	21	think in your Scope of Regulation, Figure 1,
22	question that you considered and you can't	22	that we looked at before, it wasn't HQ
23	answer that –	23	Renovation that you had in there under
24	MR. DALTON:	24	generation. I thought we were talking about
25	A. Yeah.	25	HQ Production. So, what's the difference
-	Page 54		Page 56
1	MR. COXWORTHY:	1	between HQ Innovation and HQ Production in
2	Q then I would accept that, if that is your	2	terms of what we're talking about here which
3	answer?	3	is the functions of Power Development and
4	MR. DALTON:	4	Power Supply in Nalcor?
5	A. Yes. That is my answer, yes.	5	MR. DALTON:
6	MR. COXWORTHY:	6	A. It's my understanding that HQ Production is
7	Q. Okay, thank you.	7	essentially the generator and HQ Innovation
8	MR. DALTON:	8	essentially is the constructor.
9	A. Thank you.	9	MR. COXWORTHY:
10	MR. COXWORTHY:	10	Q. So, they maintain that distinction?
11	Q. Could we turn to page 20 of the Power	11	MR. DALTON:
12	Advisory Report? And under Section 4.2 and	12	A. Yes.
13	I just wanted to highlight a sentence there.	13	MR. COXWORTHY:
14	"Regulated and non-regulated utility	14	Q. And that would be a similar distinction
15	operations are typically separated," and	15	between, correct me if you think I'm wrong,
16	then you give an example of that on the next	16	Power Development on the one side, HQ
17	page, page 21 of Hydro-Quebec Innovation.	17	Innovation, and Power Supply on the other
18	Are you equating Hydro-Quebec Innovation	18	side, HQ Production? Is that a fair –
/ `		10	
		19	MR. DALTON:
19	with the Power Development and/or Power	19 20	MR. DALTON: A. I think generally similar. I have to say I
19 20	with the Power Development and/or Power Supply Divisions of Nalcor in that	20	A. I think generally similar. I have to say I
19 20 21	with the Power Development and/or Power Supply Divisions of Nalcor in that paragraph?	20 21	A. I think generally similar. I have to say I didn't spend as much time in terms of
19 20 21 22	with the Power Development and/or Power Supply Divisions of Nalcor in that paragraph? MR. DALTON:	20 21 22	A. I think generally similar. I have to say I didn't spend as much time in terms of looking at all the activities and functions
19 20 21 22 23	with the Power Development and/or Power Supply Divisions of Nalcor in that paragraph? MR. DALTON: A. Well, I do say this is similar to Nalcor's	20 21 22 23	A. I think generally similar. I have to say I didn't spend as much time in terms of looking at all the activities and functions within Power Supply and Power Development.
19 20 21 22	with the Power Development and/or Power Supply Divisions of Nalcor in that paragraph? MR. DALTON:	20 21 22	A. I think generally similar. I have to say I didn't spend as much time in terms of looking at all the activities and functions

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	Page 57		Page 59
1	think that's—they align that way.	1	the new generation. That wasn't done here,
2	MR. COXWORTHY:	2	you know. You know, I don't think that's a
3	Q. And on the same page, page 51, in terms of	3	difficult question to ask, I think, or
4	the Primary Legislative and Policy Direction	4	answer? Simply -
5	that's given to Hydro-Quebec and in	5	MR. DALTON:
6	particular Hydro-Quebec Production, and	6	A. That's right. That's right.
7	you've already adverted to this, I think. I	7	MR. COXWORTHY:
8	think the information in there with respect	8	Q. So, that's a very significant difference,
9	to the \$27.90 megawatt-hour, that that's the	9	wouldn't you agree, between the need for
10	heritage pool or heritage contract that	10	regulatory oversight of Hydro-Quebec form a
11	you're referring to earlier?	11	consumer protection point of view and the
12	MR. DALTON:	12	need for regulatory oversight of Nalcor and
13	A. Yes, it is.	13	Hydro from a consumer protection point of
14	MR. COXWORTHY:	14	view?
15	Q. Is that correct?	15	MR. DALTON:
16	MR. DALTON:	16	A. Well, I think that from Quebec Consumers'
17	A. Yes, it is.	17	perspective, yes, it's what drives the lack
18	MR. COXWORTHY:	18	of need for kind of any regulatory oversight
19	Q. And there is no such equivalent in	19	of Hydro-Quebec Production's future
20	Newfoundland and Labrador in relation to	20	investment decisions. I think that one
21	Nalcor or Hydro, is there?	21	point that I've made today was my
22	MR. DALTON:	22	expectation is that going forward, that any
23	A. That's correct.	23	new resource development in the province in
24	MR. COXWORTHY:	24	the foreseeable future would be export-
25	Q. And I think that was the reason why you	25	market focused. And given that it's export-
20	Q. This I think that was the reason why you	23	market rocused. This given that it is export
	Daga 50		
1	Page 58	1	Page 60
1	weighted, page 2, production as being at the	1	Page 60 market focused and the costs of which are
2	weighted, page 2, production as being at the less regulated end?	2	Page 60 market focused and the costs of which are not appropriately borne by customers, that
2 3	weighted, page 2, production as being at the less regulated end? MR. DALTON:	2 3	Page 60 market focused and the costs of which are not appropriately borne by customers, that it's appropriate that that be treated on an
2 3 4	weighted, page 2, production as being at the less regulated end? MR. DALTON: A. That's correct.	2 3 4	Page 60 market focused and the costs of which are not appropriately borne by customers, that it's appropriate that that be treated on an unregulated basis.
2 3 4 5	weighted, page 2, production as being at the less regulated end? MR. DALTON: A. That's correct. MR. COXWORTHY:	2 3 4 5	Page 60 market focused and the costs of which are not appropriately borne by customers, that it's appropriate that that be treated on an unregulated basis. MR. COXWORTHY:
2 3 4	weighted, page 2, production as being at the less regulated end? MR. DALTON: A. That's correct. MR. COXWORTHY: Q. Yes. It's because there's that—that is a	2 3 4	Page 60 market focused and the costs of which are not appropriately borne by customers, that it's appropriate that that be treated on an unregulated basis. MR. COXWORTHY: Q. If the costs are not being borne by
2 3 4 5 6 7	weighted, page 2, production as being at the less regulated end? MR. DALTON: A. That's correct. MR. COXWORTHY: Q. Yes. It's because there's that—that is a consumer protection, isn't it, that heritage	2 3 4 5 6 7	Page 60 market focused and the costs of which are not appropriately borne by customers, that it's appropriate that that be treated on an unregulated basis. MR. COXWORTHY: Q. If the costs are not being borne by customers?
2 3 4 5 6 7 8	weighted, page 2, production as being at the less regulated end? MR. DALTON: A. That's correct. MR. COXWORTHY: Q. Yes. It's because there's that—that is a consumer protection, isn't it, that heritage pool?	2 3 4 5 6 7 8	Page 60 market focused and the costs of which are not appropriately borne by customers, that it's appropriate that that be treated on an unregulated basis. MR. COXWORTHY: Q. If the costs are not being borne by customers? MR. DALTON:
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Octob	er 9, 2019		Muskrat Falls Rate Mitigation Hearing
	Page 61		Page 63
1	supplier to the customer, can always go to	1	understand it, you were engaged to do a
2	another supplier, another generator if HQ	2	jurisdictional scan, I believe you called
3	Production's prices get too high?	3	it, of regulatory practices in Canada? Was
4	MR. DALTON:	4	that a part of your mandate from Nalcor? If
5	A. Right, right.	5	we -
1	MR. COXWORTHY:		
6		6	MR. DALTON:
7	Q. And isn't that a very important difference	7	A. Yes, a jurisdictional scan of regulatory
8	between -	8	practices and organizational structures, and
9	MR. DALTON:	9	I think the real focus was kind of
10	A. It is.	10	organizational structures and how, you know,
11	MR. COXWORTHY:	11	market influences, regulatory oversight, how
12	Q between the need for regulatory oversight	12	those were all linked and how they might
13	in Quebec and the need for regulatory	13	drive and influence different organizational
14	oversight in this province?	14	structures.
15	MR. DALTON:	15	GREENE, Q.C.:
16	A. Right, and I think I would make the same	16	Q. And the second major part of your retention
17	response that you just heard from me, and I	17	was to critique or respond to Liberty's
18	hate to repeat myself, but I feel like it	18	report? Is that correct?
19	warrants it, is that I'm not—I'm suggesting	19	MR. DALTON:
20	that why there isn't need for regulation for	20	
	•		
21	Power Supply going forward is the fact that	21	report was released in early September to
22	I don't expect that in the foreseeable	22	comment on it.
23	future that there are going to be generation	23	GREENE, Q.C.:
24	investments that are going to be required to	24	Q. Okay. In response to a question yesterday
25	serve customers, that these generation	25	from Mr. O'Brien, you indicated that you
	Page 62		Page 64
1	Page 62 investments are going to be built to allow	1	Page 64 were retained in May of this year. Is that
1	investments are going to be built to allow		-
2	investments are going to be built to allow participation in export markets, and	2	were retained in May of this year. Is that correct?
2 3	investments are going to be built to allow participation in export markets, and therefore, customers should not be bearing	2 3	were retained in May of this year. Is that correct? MR. DALTON:
2 3 4	investments are going to be built to allow participation in export markets, and therefore, customers should not be bearing the costs of these projects. So, there's	2 3 4	were retained in May of this year. Is that correct? MR. DALTON: A. That's correct.
2 3 4 5	investments are going to be built to allow participation in export markets, and therefore, customers should not be bearing the costs of these projects. So, there's not a need in that instance for regulatory	2 3 4 5	were retained in May of this year. Is that correct? MR. DALTON: A. That's correct. GREENE, Q.C.:
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	Page 65		Page 67
1	A. So, we essentially provided a review of the	1	GREENE, Q.C.:
2	different jurisdictions and that'sthe	2	Q. By Mr. Roberts?
3	summary of that review is found in Appendix	3	MR. DALTON:
4	A of our report. So, it was, you know,	4	A. Yes. No, Mr. Hull.
5	looking at: What are the different	5	GREENE, Q.C.:
6	structures of utilities? What's the scope	6	Q. Mr. Hull. So, did you actually go in and
7	of regulation? What are the various policy	7	talk to the various people in the various
8	drivers in those markets? If it would be	8	areas to understand the functions that they
9	helpful, it might make sense to turn to that	9	perform and how they interrelate with other
10	appendix and we could, you know—that	10	areas of either Hydro or Nalcor?
11	outlines the, you know, key information that	11	MR. DALTON:
12	we reviewed.	12	A. We didn't get to that level of detail.
13	GREENE, Q.C.:	13	Essentially the review that we did of
14	Q. And that you provide it to Nalcor. So, it	14	Newfoundland and Labrador was consistent and
15	was –	15	Nalcor was consistent that we performed of
16	MR. DALTON:	16	every other market.
17	A. That's correct.	17	GREENE, Q.C.:
18	GREENE, Q.C.:	18	7 🐧
19	7 2	19	Q. Okay. MR. DALTON:
20	existed, other utilities based upon your	20	A. It was kind of a desk-top study.
21	research and your knowledge of the market?	21	Occasionally, we'd make phone calls and do
22	Is that correct?	22	interviews so that what we did for
23	MR. DALTON:	23	Newfoundland and Labrador was very similar
24	A. That's correct.	24	to what we did for other Canadian provinces
25	GREENE, Q.C.:	25	and other US utilities that we reviewed.
١.	Page 66		Page 68
1	Q. How many people at Nalcor would you have	1	
		1	GREENE, Q.C.:
2	talked to, to understand the functions that	2	Q. So, would it be a fair assessment to say it
3	talked to, to understand the functions that each area performs?	2 3	Q. So, would it be a fair assessment to say it was a very high-level review of structures
3 4	talked to, to understand the functions that each area performs? MR. DALTON:	2 3 4	Q. So, would it be a fair assessment to say it was a very high-level review of structures as they exist?
3 4 5	talked to, to understand the functions that each area performs? MR. DALTON: A. Oh, for Nalcor?	2 3 4 5	Q. So, would it be a fair assessment to say it was a very high-level review of structures as they exist? MR. DALTON:
3 4 5 6	talked to, to understand the functions that each area performs? MR. DALTON: A. Oh, for Nalcor? GREENE, Q.C.:	2 3 4 5 6	 Q. So, would it be a fair assessment to say it was a very high-level review of structures as they exist? MR. DALTON: A. I think that's fair.
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1	A. I do generally. I mean, as I indicated in	1	A. We did make that comment, yes.
2	our presentation, we took very different	2	GREENE, Q.C.:
3	approaches.	3	Q. Okay. After reading the evidence of Liberty
4	GREENE, Q.C.:	4	here at this hearing, and again I can take
5	Q. Were you ever asked by Hydro to provide your	5	you to it if you would like to refer to the
6	opinion as to the optimum structure?	6	transcript, but you have read the
7	MR. DALTON:	7	transcript, I assume, have you?
8	A. No.	8	MR. DALTON:
9	GREENE, Q.C.:	9	A. I have.
10	Q. Would it be a fair assessment to say that	10	GREENE, Q.C.:
11	you were retained to defend the current	11	Q. You understand Liberty's evidence to be that
12	structure?	12	they not only did consider costs, but they
13	MR. DALTON:	13	actually looked at what would be an
14	Q. No, I don't think that that's the case. I	14	efficient effective structure with the
15	think we were asked to evaluate the	15	
	reasonableness of the structure and we	16	ability of Nalcor to perform its mandate?
16			And if you like, we can go to the
17	offered our opinion in terms of the reasonableness of the structure.	17	transcript, you can go to the transcript,
18		18	October 3rd, page 71.
19	GREENE, Q.C.:	19	MR. DALTON:
20	Q. Did you make any suggestions to Nalcor for	20	A. That would help.
21	any changes or tweaks in the structure?	21	GREENE, Q.C.:
22	MR. DALTON:	22	Q. So it's October 3rd, page 71. And it is
23	A. No, we never got to that point. We weren't	23	small on the screen. And the question was
24	asked to kind of propose changes; we were	24	on the previous page, so I guess we should
25	asked to—essentially it was a very high	25	look at the question first on the bottom of
	Page 70		Page 72
1	level analysis in terms of does this	1	page 70. "And the question was essentially,
2	structure appear to be appropriate in terms	2	the next issue that I wanted"—I'm reading
3	of delivering on Nalcor's mandate, drawing	3	from the transcript, "that I wanted to ask
4	upon the insights that we gain from the	4	you about also comes from Nalcor's
5	jurisdictional scan.	5	submission on September 20th and Power
6	GREENE, Q.C.:	6	Advisory on page 7, I believe that your
7	Q. Okay. You also stated in your evidence	7	approach, your mandate to the board which
8	yesterday that when you did your work, you	8	was to look at cost savings opportunities
9	didn't consider costs, is that correct?	9	was your underlying mandate which influenced
10	MR. DALTON:	10	your views about the organizational
11	A. No, we were not focussed in terms of rate	11	structure, how would you respond to that
12	impacts or cost mitigation. We were	12	criticism?" And I'll allow you to read
13	focussed more in terms of does the structure	13	through lines 1 to 11, and actually this
14	overall appear to be reasonable and	14	came up several times in the transcript and
15	appropriate for the mandate.	15	I can take you to some others if—this may
16	GREENE, Q.C.:	16	well do it. So from Liberty's evidence
17	Q. One of your criticisms in your report and	17	there, and as I said if there's others, we
18	again we can go to it if you'd like me to	18	can also go to, where their evidence is that
19	take you to the direct quote, was that	19	based on their knowledge of both Hydro and
20	Liberty focussed on costs only and didn't	20	Nalcor over their engagement here in the
21	properly take into account the mandate or	21	Province for the last number of years, as
22	the mission of Nalcor, would you agree that	22	well as the very detailed work that they did
23	that is what one could take from reading	23	in assessing the functions that are
24	your report?	24	performed at Hydro and Nalcor, that their
25	MR. DALTON:	25	recommendations would in fact provide for an
L^{2J}	MIN. DINLIOIN.	43	recommendations would in fact provide for all

Page 73 efficient effective structure that would 1 fully understand these organizations. But I 1 2 allow both Nalcor and Hydro to perform their 2 think that they might suggest that that's a 3 3 better characterization of future power functions. Having heard that evidence, are 4 you still of the view that Liberty did not 4 supply. 5 take into account the mandate of Nalcor and 5 GREENE, Q.C.: 6 Hvdro? 6 And in terms of your experience with other O. 7 7 MR. DALTON: regulatory frameworks, would you expect to 8 see the operations of assets used to serve Well, I guess one thing that it caused me to 8 pause when I was reviewing the evidence, 9 9 customers in with, what I would call a 10 their evidence in this transcript, at one 10 business development? point I believe testimony was given and I 11 11 MR. DALTON: 12 believe that's on page 66, which indicates 12 Α. Well you could do that as, basically, an 13 that the energy development aspect of Nalcor 13 efficiency strategy as a way to reduce 14 is a barrier to producing the operational 14 overlap and I think that's one of the ideas 15 savings identified. So they're suggesting 15 here is that you wouldn't need power that once thing that we've emphasized is 16 16 development going forward, but you would important, needs to be considered, was this want to potentially maintain some power 17 17 development capabilities and that those 18 energy development aspect of Nalcor, and 18 19 that they're suggesting that yes, there is a 19 would best be housed within Power Supply. But you're getting to the point where you're conflict in terms of maintaining that 20 20 21 capability, which is one of our core points 21 asking me to insert my understanding and 22 is there's a conflict between maintaining 22 some of the judgments that were made by that capability and achieving the cost Nalcor, so I just need to be careful in 23 23 24 24 terms of how far I go. reductions that they're proposing. 25 GREENE, Q.C.: 25 GREENE, Q.C.: Page 74 Page 76 1 Q. Okay. Now, we can go to another quote where 1 Q. I would like your opinion as to whether you 2 they recognize that Power Development can 2 have seen that in other regulatory 3 exist within Nalcor. One of their concerns 3 frameworks? MR. KILLEAVY: 4 is that Nalcor Power Supply also has 4 5 5 responsibility for operating and maintaining Can you repeat the question, please? A. 6 the critical infrastructure of Muskrat 6 GREENE, O.C.: 7 Falls, generation and transmission, that's 7 You say your not familiar with the actual 8 responsible for providing a critical source 8 functions that Nalcor Power Supply and Hydro 9 of supply for Newfoundland. In your 9 do at the detail level, but Nalcor Power 10 experience, is that normal to mix the 10 Supply has responsibility for operating and 11 operations of critical assets that serve 11 maintaining generation and transmission 12 12 assets that are used to serve customers or Domestic customers in with the development will be used to serve customers here in the 13 arm? 13 14 MR. DALTON: 14 Province. My question was in other 15 I think that the Nalcor folks would be 15 regulatory frameworks that you have looked 16 better able to answer this because I'm not 16 at, do you see the responsibility for convinced that they would view Power Supply operating those types of assets in as part, 17 17 18 as just being the development arm. I think 18 intermixed, intermingled, core 19 that they would view it more holistically in 19 responsibility of a business development terms of having operational aspects with 20 20 section or separate division of a utility. 21 respect to these facilities, as well as 21 And if so, what utility? 22 having development responsibilities for 22 MR. DALTON: 23 future resources, and I'm not expert in 23 A. I think it probably isn't as uncommon, I think that there are other utilities and it 24 terms of, as I've indicated, I haven't 24 25 spent, you know, tonnes of time trying to 25 might be in these other utilities the issue

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1	you would have was that those functions	1	account the appropriate way to value what
2	would be regulated, you know, but I think	2	you say Liberty didn't properly take into
3	that elsewhere you're more likely to see	3	account, the need to maintain the
4	that within the generation arm of the	4	organization capability to deliver on the
5	utility, there is effectively, you know, a	5	resource mandate?
6	comingling of some of the operating aspects,	6	MR. DALTON:
7	as well as some of the development aspects.	7	A. Sure, it's probably going to be a subjective
8	GREENE, Q.C.:	8	assessment and I think you would want to
9	Q. And that's with respect to the production, I	9	weigh some of the evidence that I have given
10	was talking about future generation	10	regarding the realness of the development
11	development, the mandate that you said is so	11	opportunities that exist out there. So you
12	important and needs to be considered.	12	would want to recognize Nalcor needs to, you
13	MR. DALTON;	13	know, provide more explicit guidance with
14	· · · · · · · · · · · · · · · · · · ·	13	respect to the full portfolio of development
15	, E	15	1 1
1	entities, you know, probably some of their		opportunities that are out there, but
16	development capability resides within kind	16	there's the, what I review as relatively low
17	of, it's very common structure to organize	17	hanging fruit associated with the runner
18	utilities on a functional basis, so you	18	replacement which Mr. Marshall discussed
19	would have the generation business, the	19	yesterday which would produce, as he
20	transmission business, the distribution	20	indicated, about a hundred megawatts. My
21	business and within generation you would	21	understanding there is also the ability to
22	have the operating side, you'd have the	22	develop additional units, generating unit at
23	development side.	23	Churchill Falls to expand its capacity
24	GREENE, Q.C.:	24	there. Those are relatively easy low cost
25	Q. But at this point there's none that readily	25	options that are available and then there
	Page 78		Page 80
1	come to mind. One of the concerns with	1	are, you know, there are other more
2	respect to your mandate or to Nalcor's	2	difficult, more challenging longer term, so
3	mandate was the concern that Liberty didn't	3	I think you need to kind of weigh the
4	properly evaluate the organizational	4	opportunity that the development of these
5	capabilities and the skills that would be	5	resources would represent, recognizing, you
6	required for the future resource development	6	know, how compelling do you think the market
7	mandate, is that correct?	7	opportunity is and I have tried to make a
8	MR. DALTON:	8	case and I won't repeat it because I think
9	A. Can you point out where we said that?	9	that I've hopefully made it satisfactory,
10	GREENE, Q.C.:	10	that there are parties out there, New York
11	Q. Yes, that part of it was losing, in your	11	State most likely, Massachusetts which has
12	report, on slide 14, for example. No, I	12	in the past offered long-term contracts
13	have the wrong slide number. It was where	13	which can effectively financially support or
14	you had said Liberty hadn't appropriate	14	underpin the development of these types of
15	valued the importance of maintaining	15	resources, and do so in a way that will make
16	organizational capability to deliver the	16	these development opportunities real. So
17	resource mandate. Do you recall saying	17	you have to kind of consider that verses
18	that? I don't have the right reference	18	what's the cost associated with maintaining
19	here, it's in your presentation as well.	19	the capability and I think that that's
20	MR. DALTON:	20	something I can't offer an opinion on.
21		21	(10:30 a.m.)
22	· · · · · · · · · · · · · · · · · · ·	22	GREENE, Q.C.:
	GREENE, Q.C.:	23	
ו יי	Q. And I guess when I read your report and your	43	Q. So I take from your answer that it would be
23		24	
23 24 25	presentation, I wondered how do you do that valuation? How would the Board take into	24 25	a subjective evaluation? MR. DALTON:

Page 83 Page 81 One could try and put numbers on it. The A. 1 That's right, it was a high level 1 A. 2 issue is you would have to assign 2 assessment. 3 probabilities and that's difficult. 3 GREENE, Q.C.: 4 4 So you don't know if any of the reductions GREENE, O.C.: O. 5 And that's something you didn't do in your -5 that Liberty is suggesting is in either the 6 MR. DALTON: 6 business development area or at the 7 It isn't something that I did. It's my 7 managerial level or at the operations of the A. 8 sense in terms of the value of the dollar 8 plant level, do you? 9 9 savings when compared to the overall MR. KILLEAVY: 10 significance of these development 10 A. I couldn't quite hear the first part of your question, where these reductions would be opportunities. I ended up believing that it 11 11 12 would be not in customers and rate payers 12 made or -13 and taxpayers' interest to lose this 13 GREENE, Q.C.: 14 development capability within Nalcor. 14 O. I was asking essentially for the support for that statement, given that you had not 15 GREENE, Q.C.: 15 reviewed the specific reductions Liberty was 16 Q. And as we have already heard, Liberty didn't 16 suggest that it be lost but that it would be proposing to understand how they would 17 17 18 18 another part of Nalcor, you agree that that affect the future functioning. 19 is Liberty's evidence? 19 MR. KILLEAVY: MR. DALTON: 20 20 That's not something that we actually looked 21 I mean, I'll let—I assume their evidence 21 at. It was beyond our scope, so the answer 22 speak to its own. I mean, they did say the 22 would be no. energy development aspect of Nalcor is a GREENE, Q.C.: 23 23 24 barrier to producing the operational savings 24 Okay, and you understand that Liberty is Q. 25 identified, suggest there's a conflict and 25 proposing approximately 113 FTE reductions, Page 84 Page 82 that's why I'm saying you need to weigh 1 1 is that your understanding? 2 these two. 2 MR. KILLEAVY: 3 3 I believe that's in their evidence, yes. GREENE, Q.C.: 4 Okay, can we go to page 7 of your report, 4 Q. GREENE, O.C.: 5 5 please? And about two thirds of the way And you would further understand that's Q. 6 down the last paragraph there is a sentence 6 approximately seven percent of the overall 7 that says, "There is a separate question 7 FTE complement at Nalcor/Hydro? 8 regarding whether Liberty's proposed 8 MR. KILLEAVY: 9 organizational design can achieve the 9 I don't recall the specific number. Α. 10 estimated FTE reductions without impairing 10 GREENE, Q.C.: service quality or organizational capability Can we take it, subject to check, that it is 11 11 and effectiveness." And then you go on to 12 12 seven percent? say that "The close alignment of the MR. KILLEAVY: 13 13 structure with other electricity operations Sure, subject to check. 14 14 A. that we review would suggest that Liberty's 15 15 GREENE, Q.C.: 16 proposed FTE reductions present a risk of 16 Are you familiar with restructuring in the reduced organizational effectiveness." So electrical utility industry where there 17 17 18 that statement again, based on your answer 18 would be reductions in the range of five to 19 to my previous questions, that statement 19 ten percent? Liberty's evidence is that that is not uncommon. 20 there is based on your high level 20 assessment. I understood from your earlier 21 21 MR. KILLEAVY: 22 answers you did not look in detail at 22 I would say based on my experience, having Α. 23 specific reductions that Liberty were 23 been through a couple of them, yes, that's 24 proposing. 24 correct. 25 MR. DALTON: 25 GREENE, Q.C.:

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1	Q. And you are aware that Hydro itself	1	mandate. In your review, do you have any
2	underwent a ten percent reduction in its	2	recommendations or opinions how that could
3	workforce in about the year 2000?	3	be accommodated in alternative ways to what
4	MR. KILLEAVY:	4	Nalcor has done? Put it another way, if you
5	A. That I don't know.	5	were coming in to advise Nalcor, what are
6	GREENE, Q.C.:	6	the alternatives that you would recommend be
7	Q. Are you aware that Newfoundland Power has	7	considered if they had asked you for your
8	undergone significant changes in reductions	8	opinion when they were restructuring in
9	in its workforce over the period of time	9	2016?
10	without impairment of their functioning	10	MR. KILLEAVY:
11	either utility?	11	A. That's kind of a hypothetical question. I
12	MR. KILLEAVY:	12	mean, I really don't know that I can answer
13	A. Again, I'm not aware of that.	13	that.
14	GREENE, Q.C.:	14	MR. DALTON:
15	Q. Okay. Are you aware that Manitoba recently	15	A. It's a difficult question, it's one that
16	went through a 15 percent reduction in its	16	requires some, you know, deliberate thought
17	workforce and a 30 percent reduction in its	17	and I think it's an appropriate question but
18	executive structure? It's actually in your	18	it wasn't one that we were asked to answer.
	· · · · · · · · · · · · · · · · · · ·	19	GREENE, Q.C.:
19	appendix. MR. KILLEAVY:		, \
20		20	Q. Okay, and there's nothing you can offer to
21	A. Yeah, I believe that's correct, yes.	21	the Board at this point?
22	GREENE, Q.C.:	22	MR. KILLEAVY:
23	Q. It's in page 61 of your –	23	A. Not at this point in time, no.
24	MR. KILLEAVY:	24	MR. DALTON:
25	A. Yes.	25	A. No.
	Page 86		Page 88
1	GREENE, Q.C.:	1	GREENE, Q.C.:
2	GREENE, Q.C.: Q. So given that information and the facts you	2	GREENE, Q.C.: Q. Turning to the executive structure and your
2 3	GREENE, Q.C.: Q. So given that information and the facts you haven't reviewed in detail of proposed	2 3	GREENE, Q.C.: Q. Turning to the executive structure and your report on the executive structure that was
2 3 4	GREENE, Q.C.: Q. So given that information and the facts you haven't reviewed in detail of proposed reductions and how they would affect Hydro,	2 3 4	GREENE, Q.C.: Q. Turning to the executive structure and your report on the executive structure that was attached as an appendix, Mr. Killeavy I
2 3 4 5	GREENE, Q.C.: Q. So given that information and the facts you haven't reviewed in detail of proposed reductions and how they would affect Hydro, do you still stand by your statement that it	2 3 4 5	GREENE, Q.C.: Q. Turning to the executive structure and your report on the executive structure that was attached as an appendix, Mr. Killeavy I understand from what you said earlier today
2 3 4	GREENE, Q.C.: Q. So given that information and the facts you haven't reviewed in detail of proposed reductions and how they would affect Hydro, do you still stand by your statement that it would be a risk of reduced—to the	2 3 4 5 6	GREENE, Q.C.: Q. Turning to the executive structure and your report on the executive structure that was attached as an appendix, Mr. Killeavy I understand from what you said earlier today that having reviewed Liberty's evidence,
2 3 4 5 6 7	GREENE, Q.C.: Q. So given that information and the facts you haven't reviewed in detail of proposed reductions and how they would affect Hydro, do you still stand by your statement that it would be a risk of reduced—to the corporation?	2 3 4 5 6 7	GREENE, Q.C.: Q. Turning to the executive structure and your report on the executive structure that was attached as an appendix, Mr. Killeavy I understand from what you said earlier today that having reviewed Liberty's evidence, one, would it be correct to say you
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2 3 4 5 6 7 8 9 10 11 12 13 14 15	GREENE, Q.C.: Q. So given that information and the facts you haven't reviewed in detail of proposed reductions and how they would affect Hydro, do you still stand by your statement that it would be a risk of reduced—to the corporation? MR. KILLEAVY: A. Well I think it would depend on specifically what is reduced and what goes away. GREENE, Q.C.: Q. And you haven't looked at what the proposal is? MR. KILLEAVY: A. Not specifically, it wasn't in our scope of	2 3 4 5 6 7 8 9 10 11 12 13 14 15	GREENE, Q.C.: Q. Turning to the executive structure and your report on the executive structure that was attached as an appendix, Mr. Killeavy I understand from what you said earlier today that having reviewed Liberty's evidence, one, would it be correct to say you understand they didn't approach the review of the executive structure based on the benchmarking exercise? MR. KILLEAVY: A. That's their evidence. GREENE, Q.C.: Q. And that it was done as a sanity check or a reality check after they had done their very
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Page 89 GREENE, Q.C.: 1 performance based regulation which I would 1 2 2 view as lighter handed regulation. So Q. Turning now to another area which is the 3 nature of what is regulated and what is 3 that's, you know, Crowns where the degree of 4 unregulated. When you looked at the 4 regulatory oversight varies. 5 utilities in your regulatory jurisdictional 5 GREENE, Q.C.: 6 scan, you accepted that unregulated were 6 And actually it might be helpful here if we O. 7 those that were either unregulated because 7 did go to your Figure 1 on Page 5 that you 8 of the market such as where there is 8 just—so on this chart, the Crown 9 9 generation and there is competition and corporations that we would see would be 10 there is no regulation, is that part of what 10 Newfoundland towards the extreme right and you looked at as unregulated, Mr. Dalton? then New Brunswick and the Ouebec and then 11 11 12 And the other part would be because by 12 B.C., and we have some in Ontario and 13 legislation or by government policy 13 Quebec. When you prepared this figure, was 14 direction it is said to be unregulated. 14 it before or after the recent changes with 15 MR. DALTON: 15 respect to B.C.? MR. DALTON: 16 A. That's right. 16 GREENE, Q.C.: 17 17 It was after. Α. 18 Okay, but I understand then that there were 18 GREENE, Q.C.: two factors you looked at, one was what's 19 19 Okay, so when I look at those charts, normal or what's going on in the marketplace 20 20 because you also have on the chart non-Crown 21 from where there was competition, and 21 corporations, I wanted to understand your 22 another where, as here, there's a government 22 point. So in New Brunswick, New Brunswick direction that something be unregulated, is 23 23 in more recent times went to full 24 24 that correct? regulation, is that correct, Mr. Dalton? 25 MR. DALTON: 25 MR. DALTON: Page 90 Page 92 Did you say "full regulation"? 1 A. That's correct. 1 A. 2 GREENE, Q.C.: 2 GREENE, Q.C.: 3 If we could go to your report at page 31? 3 Yes. Or rates in their capital -4 And also in talking about regulation you 4 MR. DALTON: 5 5 have added an additional consideration which Yeah, so it's basically cost of service, you A. 6 I wanted to read with you, read here, and 6 know, rate based traditional regulation, 7 you also stated it in your presentation and 7 yes. 8 in your evidence yesterday, "Liberty fails 8 GREENE, Q.C.: 9 to acknowledge in Canada where Crown 9 O. And do you—that would have been in more 10 corporations are the predominant suppliers 10 recent times. of electricity the degree of regulatory 11 MR. DALTON: 11 oversight varies. With Provincial ownership 12 12 Yes. there is reduced rationale for regulatory 13 13 **GREENE, Q.C.:** 14 oversight, recognizing that there are costs In Newfoundland, Newfoundland Hydro was 14 O. unregulated until 1996, that's correct, 15 for such regulatory oversight"—and I don't 15 16 need to carry on, but the point being that 16 isn't it? The electrical power control because we have Crown corporations, we have MR. DALTON: 17 17 18 less regulatory oversight in Canada, is that 18 A. That sounds correct, I knew that five years 19 what I'm to take from that paragraph? 19 ago or four years about, but, yes. MR. DALTON: 20 20 GREENE, Q.C.: 21 I think it says the degree of regulatory 21 Q. Okay, so at that point in time it was a A. 22 oversight varies, so we see in different 22 government policy decision, legislation was 23 markets, you know, B.C. you know has moved 23 passed to make Hydro fully regulated in 24 to probably more regulation of B.C. Hydro. 24 terms of rates and its capital investments, 25 In Ontario we see greater reliance on 25 is that correct?

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	Page 93		Page 95
1	MR. DALTON:	1	MR. DALTON:
2	A. That's my general understanding.	2	A. That's correct.
3	GREENE, Q.C.:	3	GREENE, Q.C.:
4	Q. Okay. In British Columbia, are you familiar	4	Q. And the response of the government there was
5	with what has happened in British Columbia?	5	to move to greater regulator oversight, is
6	MR. DALTON:	6	that correct?
7	A. Generally as is conveyed in our appendix,	7	MR. DALTON:
8	yes.	8	A. That's correct. I think that the one point
9	GREENE, Q.C.:	9	to make is that one needs to distinguish,
10	Q. Okay, so can you please tell us what	10	you know, what B.C. has available for, you
11	recently happened in this year?	11	know, future development opportunities
12	MR. DALTON:	12	verses what Newfoundland and Labrador has
13	A. The government review, there's been	13	for future development opportunities. So I
14	different governments and different views in	14	think that's one thing that causes me to
15	terms of what was the appropriate level of	15	differentiate the two circumstances. B.C.
16	regulatory oversight over B.C. Hydro and the	16	is very focussed in terms of finishing Site
17	current government is of the view that	17	C. I don't think it's scheduled to go into
18	additional regulatory oversight is	18	service until 2024, so there is still lots
19	appropriate for B.C. Hydro, so they had a	19	of effort and lots of dollars still to be
20	number of areas where essentially direction	20	spent in terms of finalizing that, and I
21	had been given to constrain the regulatory	21	think that B.C. doesn't have the same, based
22	oversight over capital investment, for	22	on my view of that market and knowledge of
23	example, and the government has decided to	23	that market, doesn't have the same portfolio
24	subject those areas to greater regulatory	24	of generation development opportunities
25	oversight. You know, I think that one needs	25	available to it as Newfoundland and Labrador
	Page 94		
1		1	Page 96 does.
	to recognize that, you know, different		Page 96 does.
2	to recognize that, you know, different governments are of different views in terms	1 2 3	Page 96 does. GREENE, Q.C.:
2 3	to recognize that, you know, different governments are of different views in terms of the appropriateness of regulation, and I	2 3	Page 96 does. GREENE, Q.C.: Q. Yes, but one of the responses taken in B.C.
2 3 4	to recognize that, you know, different governments are of different views in terms of the appropriateness of regulation, and I think that the pendulum has swung back to	2 3 4	Page 96 does. GREENE, Q.C.: Q. Yes, but one of the responses taken in B.C. to a very similar situation here was to go
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1	er 9, 2019		Muskrat Falls Rate Mitigation Hearing
1	Page 97		Page 99
	potential and participate in export markets	1	understanding is the issue of regulatory
2	and to do so in a fashion that wouldn't	2	oversight of the Muskrat Falls operation and
3	require customers to pay for the cost of	3	maintenance expenses is effectively
4	these facilities. These facilities would	4	constrained by the legislation that's in
5	need to be developed either on a market	5	place in the financing arrangements.
6	basis or through long-term contracts with	6	GREENE, Q.C.:
7	willing buyers.	7	Q. Yes, and I'm asking you if that weren't
8	GREENE, Q.C.:	8	there and if there's the opportunity for
9	Q. And that's your opinion as to how future	9	that to be changed by a government policy
10	development should be. With respect to the	10	direction, do you think it's appropriate to
11	operating and maintenance costs for the	11	do it that there be insight? We recognize
12	Lower Churchill Project, those costs are to	12	there is a current restriction and I'm
13	be paid by current rate payers, not by	13	asking you as we move forward and if there
		13	- · · · · · · · · · · · · · · · · · · ·
14	future customers or by other developments.	15	is the opportunity to change through policy
15	Based on what your opinion is, do you		direction of the government, is it
16	believe that those costs should be	16	appropriate that there be independent
17	regulated? Their costs are borne by the	17	oversight of future operating and
18	customers.	18	maintenance and capital costs associated
19	MR. DALTON:	19	with the Lower Churchill Project. What's
20	A. So as I said yesterday, I believe, I feel	20	done is done, but let's talk about the
21	like when costs are borne by customers, it's	21	future.
22	appropriate that there be some form of	22	MR. DALTON:
23	regulatory oversight; everything else	23	A. Okay, and assuming that the issues
24	remaining equal. I recognize that there's	24	associated with the financing arrangement
25	questions regarding what's the appropriate	25	could be addressed and that wasn't a
	Page 98		Page 100
1	form of regulatory oversight for such costs,	1	constraint.
2	but I recognize that in Newfoundland and	2	GREENE, Q.C.:
3	Labrador for Muskrat Falls there are two	3	Q. Yes, so putting aside those –
1	constraints in terms of that regulatory		
4	constraints in terms of that regulatory	4	MR. DALTON:
5	oversight and I think that those are	4 5	
			MR. DALTON:
5	oversight and I think that those are	5	MR. DALTON: A. So in terms of operating expenses, I would
5	oversight and I think that those are meaningful constraints that need to be	5 6	MR. DALTON: A. So in terms of operating expenses, I would that that yes, it would be appropriate that
5 6 7	oversight and I think that those are meaningful constraints that need to be considered.	5 6 7	MR. DALTON: A. So in terms of operating expenses, I would that that yes, it would be appropriate that there be some form of regulatory oversight.
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5 6 7 8 9	oversight and I think that those are meaningful constraints that need to be considered. GREENE, Q.C.: Q. But from a regulatory perspective, you would agree there should be some form, normally	5 6 7 8 9	MR. DALTON: A. So in terms of operating expenses, I would that that yes, it would be appropriate that there be some form of regulatory oversight. I'm not sure that it would be in our
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1	\$50,000.00 to regulatory oversight.	1	out with, you know, cost of service and
2	GREENE, Q.C.:	2	they're now deciding that –
3	Q. Again, subject to the review of the cap	3	MR. KILLEAVY:
4	which has been in place for many, many years	4	A. And the regulated utility competes with non
5	and when there's an overhaul of the	5	regulated as well, which is a big factor as
6	legislation, perhaps they'll increase the	6	well.
7	limit, but you would agree, though, that if	7	GREENE, Q.C.:
8	customers pay for it, it would normally be	8	Q. So it's a totally different market, as I
9	subject to view and in other jurisdictions	9	say.
10	the regulator also looks at the capital of	10	MR. KILLEAVY:
11	Crown corporations, as we just saw from	11	A. Completely.
12	looking at your Figure 1 there and went	12	GREENE, Q.C.:
13	through some of the Crown corporations.	13	Q. Yes, okay. I don't know, I'm moving towards
14	MR. DALTON:	14	another area, if this is an appropriate time
15	A. It varies in terms of there's kind of set,	15	to break.
16	in terms of the regulatory oversight of	16	CHAIR:
17	- · · · · · · · · · · · · · · · · · · ·	17	
18	capital. GREENE, Q.C.:	18	Q. Well it might be, yes. Thank you. (RECESS – 11:00 A.M.)
		19	`
19	•		(RECONVENED – 11:30 A.M.)
20	B.C., they're going to be reviewing capital	20	CHAIR:
21	of Crown corporations.	21	Q. Carry on, Ms. Greene.
22	MR. DALTON:	22	GREENE, Q.C.:
23	A. That's correct.	23	Q. Thank you. I have one final area of
24	GREENE, Q.C.:	24	questions and it's to do with Nalcor Energy
25	Q. So when we come back to regulation and	25	Marketing a number of my questions have
	Page 102		Page 104
1	review that you've expressed, there's less	1	already been addressed by Mr. Coxworthy and
2	regulatory oversight for Crown corporations.	2	by Mr. Fitzgerald and probably everybody
3	Based on our review of the changes, the	3	will be happy that my questions have been
4	trend seems to be almost going towards more	4	reduced and I only do have a few at this
5	regulatory oversight of Crown corporations,	5	point. I first wanted to go to Slide 9 in
6	as opposed to less. We saw a change came in	6	your presentation. In your third bullet on
7	Newfoundland in the late 1990s, it came even	7	the page, you mention that energy trading is
8	much later, I forget exactly when in New	8	fast pace and requires detailed knowledge of
9	Brunswick, but it was well past 2000 and now	9	the markets, and as I understood your report
10	we have B.C., so the trend seems to be going	10	and your evidence today, one of your
11	towards more oversight, not less.	11	concerns with moving to more oversight of
12	MR. DALTON:	12	Nalcor Energy Marketing was a concern about
13	A. I think Ontario would probably be –	13	a chill put on the energy practices and the
14	MR. KILLEAVY:	14	energy trading if there is oversight.
15	A. One exception.	15	Again, you have already testified you've
16	MR. DALTON:	16	read Liberty's evidence or the transcript,
17	A. Moving in a different direction.	17	so you are aware that Liberty was not
18	GREENE, Q.C.:	18	recommending prior approval for energy
19	Q. And I was going to say, Ontario is a totally	19	trading, it would be after the event, so
20	different environment, isn't it?	20	does that influence in any way your view of
		21	what Liberty was saying with respect to the
21	MR. KILLEAVY:	41	
1			, , , ,
22	A. Completely.	22	regulation for Nalcor Energy Marketing? MR. DALTON:
22 23	A. Completely. MR. DALTON:	22 23	regulation for Nalcor Energy Marketing? MR. DALTON:
22	A. Completely.	22	regulation for Nalcor Energy Marketing?

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	Page 105		Page 107
1	talking about, that their overview would be	1	of salaries, staffing levels, you probably
2	retrospective and the area where I commented	2	could have a little better assessment of it,
3	yesterday was the notion of there being	3	and then looking at the revenue side of the
4	tremendous benefits, which I think was the	4	operation, that's a really difficult one to
5	language which was used from oversight of	5	evaluate. So that's some of the issues I
6	these type of energy trading operations and	6	have in terms of the type of regulatory
7	I made the differentiation between where	7	oversight that Liberty is proposing.
8	there could be significant benefits would be	8	GREENE, Q.C.:
9	where there is an energy audit or a fuel	9	Q. So your first concern for the assessment
10	management audit, where there is fuel costs	10	after the event not requiring approval prior
11	passed through. And I did look in terms of	11	to transactions, which Liberty was not
12	some of the evidence that, where Liberty had	12	recommending, is it would be difficult for
13	talked about what their oversight of NEM	13	the Board, as I understood your answer,
14	could be and they suggested that, I think	14	because it would be difficult for the Board
15	the language was that it could consist of	15	to access the costs and to evaluate the
16	evaluating cost and looking at the revenues	16	costs and the value that those costs
17	expected as a result of these operations.	17	produces, so your concern would be the
18	And I think that's an accurate	18	difficulty in doing it?
19	representation in terms of what they	19	MR. DALTON:
20	suggest. So as Mr. Jones knows better than	20	A. That's one concern. I mean, I also
21	I, but my understanding is the costs here, a	21	indicated as well, you know, which you've
22	vast majority of which are personnel, energy	22	referenced earlier was the desire to have
23	traders, people who are highly skilled. So	23	these focused in terms of these individuals
24	there's a question in terms of the numbers	24	which is the standard practice to have them
25	and there's a question in terms of how many,	25	focussed on the market and focussed in terms
	Page 106		Page 108
1	how much do you pay them. There's no easy	1	of doing trades because they're going to be
2	way to benchmark what you should be paying	2	profitable trades, as opposed to being at
3	an energy trader who lives in St. John's and	3	all concerned with any form of regulatory
4	is trading for Nalcor. One could look at	4	oversight and someone's potential perception
5	Toronto, I'm sure they would be paid much	5	of a trade and inability to understand the
6	more, or one could look to Houston, they'd	6	underlying risks and the value that might be
7	be paid even more. These are kind of	7	realized from that trade.
8	different locations where you often see more	8	GREENE, Q.C.:
9	energy traders. So it's a difficult	9	
I			O. So first based on your response, one is
I 10	exercise in terms of evaluating the cost of	10	Q. So first, based on your response, one is
10	exercise in terms of evaluating the cost of this operation. There's a question, okay	10 11	your concern about the difficulty in
11	this operation. There's a question, okay,	11	your concern about the difficulty in evaluating for the Board's ability to
11 12	this operation. There's a question, okay, you know, are they being paid too much?	11 12	your concern about the difficulty in evaluating for the Board's ability to evaluate the costs and the benefits, and the
11 12 13	this operation. There's a question, okay, you know, are they being paid too much? Well, if you elect to pay them less, these	11 12 13	your concern about the difficulty in evaluating for the Board's ability to evaluate the costs and the benefits, and the other was the chill it might have on the
11 12 13 14	this operation. There's a question, okay, you know, are they being paid too much? Well, if you elect to pay them less, these are highly skilled individuals who can very	11 12 13 14	your concern about the difficulty in evaluating for the Board's ability to evaluate the costs and the benefits, and the other was the chill it might have on the people doing the trading because they would
11 12 13 14 15	this operation. There's a question, okay, you know, are they being paid too much? Well, if you elect to pay them less, these are highly skilled individuals who can very easily move to Houston, move to Toronto,	11 12 13 14 15	your concern about the difficulty in evaluating for the Board's ability to evaluate the costs and the benefits, and the other was the chill it might have on the people doing the trading because they would be reviewed after the event, if there is to
11 12 13 14 15 16	this operation. There's a question, okay, you know, are they being paid too much? Well, if you elect to pay them less, these are highly skilled individuals who can very easily move to Houston, move to Toronto, move somewhere else to another trading	11 12 13 14 15 16	your concern about the difficulty in evaluating for the Board's ability to evaluate the costs and the benefits, and the other was the chill it might have on the people doing the trading because they would be reviewed after the event, if there is to be an audit, it might affect how they trade,
11 12 13 14 15 16 17	this operation. There's a question, okay, you know, are they being paid too much? Well, if you elect to pay them less, these are highly skilled individuals who can very easily move to Houston, move to Toronto, move somewhere else to another trading operation at potentially significant costs	11 12 13 14 15 16 17	your concern about the difficulty in evaluating for the Board's ability to evaluate the costs and the benefits, and the other was the chill it might have on the people doing the trading because they would be reviewed after the event, if there is to be an audit, it might affect how they trade, was a concern you expressed earlier. I call
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1	Page 109		Page 111
1 1	utilities that I'm aware of with Hydro	1	costs are, which often can be very complex
2	portfolios that do a lot of export trading,	2	in terms of, for example, even with respect
3	I'm just not aware of this level of	3	to Hydro, it has not, it may not always be
4	regulatory oversight.	4	easiest to determine what a very high paid
5	GREENE, Q.C.:	5	executive should receive. In Ontario, they
6	Q. Now Liberty's evidence is that if Liberty,	6	may receive higher than compensation here.
1 7	the company, has engaged in a number of	7	We heard from Mr. Marshall yesterday about
8	these types of audits for various	8	the difficulties of recruitment and the
9	jurisdictions here in Canada, in Nova Scotia	9	underpaid executives at Nalcor. So a board
10	and in various jurisdictions in the US, so	10	must take all of that into account when
11	that they have actually done the evaluation	11	they're assessing the salary and
12	of the costs and the benefits that come. Do	12	compensation packages that are put forward
13	you have any personal knowledge yourself	13	for approval. So why would it be any
14	that would point out where there are	14	different to be able to evaluate the costs
15	differences that cannot be accommodated	15	of energy trading, as opposed to any other
1		16	
16	where Liberty has actually done that work?		function in the utility?
17	MR. DALTON:	17	MR. DALTON:
18	A. So I have looked at some of Liberty's work	18	A. I do think it's harder. I take your point
19	and seen reference to their work and my	19	that it is something that is done. I was
20	knowledge, they can correct me if I'm wrong,	20	trying to differentiate it in suggesting
21	but those were typically utilities that had	21	that the skillset is more unique and the
22	fuel adjustment clauses and that they were	22	locational aspects are something else that
23	doing audits of fuel procurement practices	23	makes it more difficult to benchmark.
24	as opposed to Hydro electric utility where	24	GREENE, Q.C.:
25	the form of audit or oversight would be	25	Q. The second area of concern is for
	Page 110		Page 112
1	different and that –	- 1	
1 -		1	simplicity, I'll call it my "chill effect"
2	GREENE, Q.C.:	2	simplicity, I'll call it my "chill effect" is that after the event it's always, because
	GREENE, Q.C.:		is that after the event it's always, because
2		2 3	is that after the event it's always, because you may be looked at after the event that
2 3	GREENE, Q.C.: Q. And in terms of the work that you review, would that have been in Nova Scotia where	2	is that after the event it's always, because you may be looked at after the event that influences your current behaviour, and I
2 3 4 5	GREENE, Q.C.: Q. And in terms of the work that you review, would that have been in Nova Scotia where they did do fuel adjustment work, audit	2 3 4 5	is that after the event it's always, because you may be looked at after the event that influences your current behaviour, and I have to ask you, what's wrong with that? If
2 3 4 5 6	GREENE, Q.C.: Q. And in terms of the work that you review, would that have been in Nova Scotia where they did do fuel adjustment work, audit work? Did you consider work they have done	2 3 4 5 6	is that after the event it's always, because you may be looked at after the event that influences your current behaviour, and I have to ask you, what's wrong with that? If you know you're going to have to justify
2 3 4 5 6 7	GREENE, Q.C.: Q. And in terms of the work that you review, would that have been in Nova Scotia where they did do fuel adjustment work, audit work? Did you consider work they have done in the United States?	2 3 4 5 6 7	is that after the event it's always, because you may be looked at after the event that influences your current behaviour, and I have to ask you, what's wrong with that? If you know you're going to have to justify your behaviour to an independent third
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1	something that is commercially sensitive as	1	Nalcor? Well, Nalcor is not regulated, but	
2	this, that that represents some challenges	2	any other part of Hydro.	
3	that need to be weighed. I realize there	3	MR. DALTON:	
4	are confidentiality protections that can be	4	A. It comes back to it isn't consistent with	
5	put in place, but I think all this is some	5	the practice that I see elsewhere, that	
6	thing that needs to be considered, and then	6	it's, you know, subjective –	
7	I get back to the point of, you know, the	7	GREENE, Q.C.:	
8	Canadian utilities that have the big	8	Q. In Canada.	
9	portfolios that are successful don't have	9	MR. DALTON:	
10	this form of regulatory oversight, and you	10	A. Yeah, to regulatory oversight.	
11	know, we see in B.C. the government who was	11	GREENE, Q.C.:	
12	looking at this and Powerex plays an	12	Q. Okay, those are all the questions I have.	
13	important role in terms of generating	13	Thank you, Chair, and thank you, panel.	
1	revenues for the benefit of customers,	13	CHAIR:	
14	· · · · · · · · · · · · · · · · · · ·	15		
1	elected to not subject Powerex to the type		Q. Thank you, Ms. Greene. Mr. Eaton, do you	
16	of regulatory oversight that's being	16	have any type of follow-up?	
17	suggested here.	17	EATON, Q.C.:	
18	GREENE, Q.C.:	18	Q. I just have one point to clarify. There was	
19	Q. With respect to, you've also mentioned that	19	a question addressed about the comingling in	
20	NEM has, Nalcor Energy Marketing, has a Risk	20	various utilities of development and	
21	Management Manual and there is oversight by	21	operation and I just wonder whether there's	
22	the board of directors of Nalcor and that	22	anything in your report that might address	
23	transparency should give enough comfort,	23	that and other utilities where that might	
24	again I'm paraphrasing, so if I haven't	24	happen?	
25	gotten your point exactly, but I wanted you	25	MR. KILLEAVY:	
	Page 114		Page 116	
1	to comment on that.	1	A. Mr. Eaton, I had a look at the report during	
2	MR. DALTON:	2	the break and I think there were three	
3	A. Yeah, that's pretty standard practice for	3	Canadian Crown corporations that have	
4	commercial entities that there is framework	4	operations and development comingled. One	
5	put in place. The Risk Management Manual	5	would be Manitoba Hydro; the other would be	
6	would be a good example of that which would	6	Ontario Power Generation, and then Hydro	
7	outline the appropriate procedures,	7	Quebec.	
8	practices, criteria. Obviously Mr. Jones	8	EATON, Q.C.:	
9	can speak to it, to the manual in much more	9	Q. That's all that I have.	
10	detail and the protections that are in	10	CHAIR:	
11	place, my understanding is at just a very	11	Q. And I have no questions, so I guess that	
12	high level.	12	means we're finished with this panel. Thank	
_				
13	GREENE, O.C.:	1.3	you very much gentlemen. I guess the	
13	GREENE, Q.C.: O. And again in a normal utility environment	13 14	you very much gentlemen. I guess the suggestion would be we'll take a quick break	
14	Q. And again in a normal utility environment	14	suggestion would be we'll take a quick break	
14 15	Q. And again in a normal utility environment there would be manuals in place, whether	14 15	suggestion would be we'll take a quick break and you can get set up.	
14 15 16	Q. And again in a normal utility environment there would be manuals in place, whether it's operating guidelines for how you	14 15 16	suggestion would be we'll take a quick break and you can get set up. (RECESS – 11:47 A.M.)	
14 15 16 17	Q. And again in a normal utility environment there would be manuals in place, whether it's operating guidelines for how you operate the system, how you respond to an	14 15 16 17	suggestion would be we'll take a quick break and you can get set up. (RECESS – 11:47 A.M.) (RECONVENED – 11:55 A.M.)	
14 15 16 17 18	Q. And again in a normal utility environment there would be manuals in place, whether it's operating guidelines for how you operate the system, how you respond to an emergency, how you do investments, so the	14 15 16 17 18	suggestion would be we'll take a quick break and you can get set up. (RECESS – 11:47 A.M.) (RECONVENED – 11:55 A.M.) CHAIR:	
14 15 16 17 18 19	Q. And again in a normal utility environment there would be manuals in place, whether it's operating guidelines for how you operate the system, how you respond to an emergency, how you do investments, so the regulator also reviews those manuals, even	14 15 16 17 18 19	suggestion would be we'll take a quick break and you can get set up. (RECESS – 11:47 A.M.) (RECONVENED – 11:55 A.M.) CHAIR: Q. Welcome panel. I'll turn it over to Mr.	
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14 15 16 17 18 19 20 21 22	Q. And again in a normal utility environment there would be manuals in place, whether it's operating guidelines for how you operate the system, how you respond to an emergency, how you do investments, so the regulator also reviews those manuals, even though the board of directors and the executive may have as well, so again, why should transparency and accepting the fact	14 15 16 17 18 19 20 21 22	suggestion would be we'll take a quick break and you can get set up. (RECESS – 11:47 A.M.) (RECONVENED – 11:55 A.M.) CHAIR: Q. Welcome panel. I'll turn it over to Mr. Eaton to introduce the panel. EATON, Q.C.: Q. Thank you, Madam Chair. The next session is	

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start with Mr. Roberts, Mr. Roberts, perhaps 10 them very easy to deal with, real you can just sort of tell us a little bit 11 pleasure to deal with. They wer	•
you can just sort of tell us a little bit 11 pleasure to deal with. They wer	•
	•
about your background. You're the Senior 12 and appreciative to other prioriti	
13 Vice President of Corporate Services, how 13 going on, this being one of the n	
long have you held that position? 14 important, obviously, but even in	
15 MR. ROBERTS: 15 responses and the time they allow	
16 A. So I moved into that role around the time 16 respond to the data, given that the	ney had a
that Stan arrived in 2016. 17 challenge ahead of them with tig	•
18 EATON, Q.C.: 18 timelines, I thought they were vo	
19 Q. Okay, and prior to that, what was your work 19 appreciative of that. And I also	
20 experience? 20 invigorated, you know, from a the	-
21 MR. ROBERTS: 21 perspective in terms of they real	ly
22 A. Well to start out, I guess, specifically 22 challenged their thinking through	
with Nalcor, I joined the organization in 23 process, so I'd just like to ackno	
24 2007 as manager then of Human Resources and 24 them as well. And I'll also say t	hat I
25 Organizational Effectiveness, and around 25 think we largely agree with a lot	of their
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1 2010, I assumed additional accountability 1 findings, especially on the finar	ncial
for labour relations. In 2014, I took on my 2 mitigation options, which really	will
3 first executive role with the company as 3 constitute, I think, in the grand	scheme of
4 then the Vice President of Human Resources 4 things, you know, ninety plus p	
5 and Organizational Effectiveness. I believe 5 solution here in terms of rate many	
6 I appeared here at the Board in 2015 and 6 I also agree with them on their	_
from there, as I said, when Stan arrived in 7 about Newfoundland and Labra	
8 2016 my job evolved to this. 8 maintaining the asset base that y	
9 EATON, Q.C.: 9 operating that asset base and yo	
10 Q. And prior to joining Nalcor, any industry 10 through this presentation, which	
11 experience? 11 all this is leading, we also large	
12 MR. ROBERTS: 12 in terms of finding efficiencies	_
13 A. Yes, so roughly half of my experience now 13 reductions wherever we can as	
13 A. Yes, so roughly half of my experience now has been with this organization. Prior to 14 reductions wherever we can as a organization because we know the second organization because we will be a second or the second organization because we will be a second or the second organization because the second or the second organization because the second organ	
13 A. Yes, so roughly half of my experience now has been with this organization. Prior to that, the other half was out in the private 15 reductions wherever we can as a organization because we know that, the other half was out in the private 15 counts, and so that's what we're	
13 A. Yes, so roughly half of my experience now has been with this organization. Prior to that, the other half was out in the private sector. I worked for the subsidiary of 16 reductions wherever we can as a organization because we know that, the other half was out in the private sector. I worked for the subsidiary of 16 focus on.	e going to
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So the objective, as I've kind of	1	clear direction, not just on how the
2 alluded to, is we want to make sure that we	2	structure would look, but how to achieve it
fully share what the objectives were when we	3	and so I'll talk a little bit about the
4 did reorganize the company in 2016 and	4	direction that he gave us and I can tell you
5 having appreciation for the direction that	5	it was with a view of balancing what those
6 was being provided by Mr. Marshall at the	6	priorities should be and with a focus on
7 time. And I can still recall his first full	7	costs.
8 day in the office. When he came in, it was	8	The fourth would be, again, the company
9 about 8:05, when his executive assistant	9	wanted to focus on finding efficiencies and
10 came looking for me and said Mr. Marshall	10	as I've said a couple of times now, we're
was looking for me. And I still remember	11	largely aligned with Liberty in terms of
should I grab a note pad and a pen or my	12	finding reductions and efficiencies. I
coat and keys, I wasn't sure what he would	13	think where we diverge and maybe this is no
be wanting from me that quickly, but just	14	surprise, you know, I think anybody who
15 testament to actually his focus on the	15	looks at this can look at it in different
16 structure of the company. He had time to	16	ways, but where we diverge, I think, is in
* *		
	17	the path and in the timing and in perhaps
his objectives were and right away he put	18	some of the numbers for certain. And in the
his mind to how the organization should be	19	fifth thing I'll discuss is sort of, you
structured and engaged me in a dialogue and	20	know, in consideration of all of that we
21 we've had a lot of dialogue on that topic	21	think about how do we carefully manage our
right from the outside, right through to	22	way through this transition because we are
23 current day, so it's a continuous focus that	23	going through significant changes in
24 we discuss.	24	organization, not to be underestimated by no
25 I'd also like to make sure through this	25	means and I don't see a steady state in the
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1 presentation that we provide additional	1	next couple of years, I think it will take a
2 context in terms of our focus around rate	2	while to achieve that desired outcome. So
3 mitigation and that we, as I said, agree	3	again, Nalcor's mandate, the purpose of the
4 with Liberty in terms of there's a	4	organization, must be supported through the
5 possibility to have FTE reductions and we've	5	organization's operating model and I don't
6 been planning for them for some time now and	6	think anybody to date has disagreed with
7 I want to put more evidence forward, I	7	that. Mr. Marshall made that point; I
8 guess, in terms of our plan around that and	8	believe Power Advisory made that point; and
9 trying to achieve that, so that too was some	9	I believe Liberty made that point. I'd also
thing that Mr. Marshall brought a lot of	10	say that I think that I would agree that
focus to in his early days is that with all	11	Liberty did take a wholesome view of what
the other priorities we talk about, rate	12	our mandate was. Perhaps where we differ is
mitigation has always been on the forefront	13	where we're placing the level of emphasis,
14 of our minds.	14	so I don't necessarily agree that they
15 So the topics I'll discuss, Nalcor's	15	didn't understand that, I just think that
16 mandate, it's been discussed a lot but I	16	the place of emphasis may have been swayed
want to reinforce the organization's purpose	17	one way or the other, although I can't speak
18 which drives our organizational structure	18	on their behalf, I can just speak on our
19 and that we're, I think, all aligned on that	19	behalf as to how we're placing emphasis on
20 point. I know it has been said, but I	20	the different priorities that we have, but
<u> </u>	20 21	-
ε		it's worth repeating. You know, our
it would be good to repeat it, as well as	22	mandate, obviously, guides our strategy and
the objectives, again, the priorities that	23	the decisions that we make. It's also
1 04 M. M 1 - 11 4 4 C 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 24	
Mr. Marshall set out for us when he arrived remain. He provided at that time a very	24 25	something that helps facilitate our desire to have our relationships with our customers

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1	and different stakeholders, including the	1	Hydro is well positioned to deliver on its
2	PUB, of course, and to bring stability to	2	mandate, which the Board is very familiar
3	the organization, you know, a clear envision	3	with and to continue, as I said, to
4	and understanding of what we're trying to	4	challenge Power Supply in terms of its
5	achieve I think motivates people to try to	5	operations and investments because right now
6	achieve that objective, so we've been doing	6	it knows that it has to come before this
7	a lot over the last couple of years since	7	Board and justify those, in their minds,
8	Mr. Marshall's arrival to really try to	8	that they're getting the right costs passed
9	paint that picture as to what today looks	9	on to them. And I know that Jennifer on the
10	like, but also what the future looks like so	10	team and speaking a little bit on her behalf
11	that everybody is sort of rowing in the same	11	now, but I'm sure she will reiterate this,
12	direction.	12	is very focussed on improving and building
13	As far as priorities, these have been	13	on the relationship with the regulator.
14	covered. I will say that, you know, again	14	So specifically we'll get a little bit
15	it's worth repeating, this was all done with	15	into new territory here now in terms of what
16	cost and rate management in mind right from	16	direction was provided by Mr. Marshall when
17	day one, so it's always been a point of	17	he arrived, so as I said, we had many
18	discussion.	18	meetings and discussions as to how to put
19	On the first one, obviously we've been	19	the structure in place and, you know, he
20	striving to bring stability to the	20	gave very clear direction once we had landed
21	organization and specially the Lower	21	on the structure that we have, as to what—
22	Churchill Project, and we're not there yet.	22	how we should operate inside of that. So,
23	Again, Mr. Marshall gave evidence to that	23	you know, he wanted to first ensure that we
24	again yesterday in terms of some of the	24	had a line of business focus. He said it
25	challenges that still like ahead and then	25	again yesterday, Hydro is a very different
23	Page 126		Page 128
1	the commissioning of all of these major	1	business than Power Supply and Power Supply
2	assets into our asset base is no small task.	2	is very different than the Lower Churchill
$\frac{2}{3}$	So I think we will be, most of us feel it	3	Project. Energy Marketing is yet different
4	will be two or three years working through	4	again, so we have multiple business, varying
5	those challenges, but I'm confident we will.	5	mandates, some consistent with each other,
6	The second point there being ensuring	6	some different, but they're all different in
	that we are ready for that integration of		their own right and require attention in
7 8	the new assets, that we're staffed	7 8	their own right. That said, while he
9		9	
10	appropriately for the period of time that's	10	recognized the need to be focussed on each of those lines of business, he also wanted
11	going to be less than steady state as we	10	to ensure that we didn't become a silo and
12	break in the new assets, but not overly	12	
1	staffed, again, cost management has to	12	he preaches collaboration, so he still
13	factor in. So I know that Hydro continues		expects us to talk to one another, work with
14	to challenge Power Supply, so Jennifer	14	one another, challenge one another in the
15	continues to challenge Jim in terms of what	15	structure that we have. So it was never
16	costs they would be looking at to bring	16	meant to be divisive for sure; it was meant
17	forward in terms of the staffing model with	17	to be focussed and collaborative.
18	a focus on a strong balance between how we operate or how we staff it in the early	18	The other thing he was clear on and this seems to be a point of confusion
10			
19	÷	19	=
20	days, with a view to reliability, of course,	20	perhaps through this process is that he
20 21	days, with a view to reliability, of course, and then as we get more confident in the	20 21	perhaps through this process is that he instructed us to be efficient and make sure
20 21 22	days, with a view to reliability, of course, and then as we get more confident in the assets, then we would look to have a leaner	20 21 22	perhaps through this process is that he instructed us to be efficient and make sure we were optimizing costs as we did this, and
20 21 22 23	days, with a view to reliability, of course, and then as we get more confident in the assets, then we would look to have a leaner staffing model going forward and so that's	20 21 22 23	perhaps through this process is that he instructed us to be efficient and make sure we were optimizing costs as we did this, and it was stressed by Stan that because rate
20 21 22	days, with a view to reliability, of course, and then as we get more confident in the assets, then we would look to have a leaner	20 21 22	perhaps through this process is that he instructed us to be efficient and make sure we were optimizing costs as we did this, and

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I	Page 129		Page 131
1	we couldn't make things worse. The	1	final point, I guess, on this particular
2	structure, the core business had to be	2	slide is that Mr. Marshall has been clear in
3	organized and managed in a way that was	3	our discussions around this, that he put
4	always viewing costs as a top priority, like	4	this structure in place not just with a view
5	recognizing the pressures we were under as a	5	of today, but it was a view of how we
6	company in general because of the cost	6	transition out of this and have a structure
7	escalations on the project. I think every	7	that's supportive of what our mandate would
8	part of government, including the rest of	8	be going forward. He's used the Power
9	Nalcor outside of the project felt the same	9	Supply structure, I think, with that vision
10	way in terms of trying to squeeze every	10	in mind, that if we continue to, and I think
11	penny out of our operating costs where we	11	we have to as a province, try to find a way
12	could, so we were very focussed on that. So	12	to harness the natural resources that we're
13	he gave very clear direction that as we went	13	fortunate enough to have for the benefit of
14	forward to set up Power Supply, that we	14	all the people in this province, then I
15	would not introduce duplication. So I	15	would say that would be a focus that would
16	think, for example, if you were to take	16	come with Power Supply in the future. A few
17	Newfoundland Power and Newfoundland Hydro as	17	of the other important considerations that I
18	we were looking at through this whole	18	think we probably haven't spent a lot of
19	process and combining them, I think	19	time talking about to date before these
20	naturally because two self-sustaining	20	hearings is some of the structural
20 21	businesses that have been operating for a	20	considerations that have to be thought about
21 22	1 &	22	Č
	long time, if they were put together, I	23	when you are doing restructuring. So again
23	think you could find efficiencies and we		when we're organizing the business, we
24	obviously came to the same conclusion as	24	thought about the breadth and the depth of
25	Liberty that those few efficiencies that	25	the activities that this organization is
1	Page 130	1	Page 132
	might have been achieved through that	1	involved in, and I just sort of alluded to
2	process would have offsets to them that	2	it. We have Hydro that's involved in the
3	would be, that would more than offset them,	3	generation, transmission, distribution, and
4	but also introduce a lot of risk. I think	4	customer service for the province. We have
5	the difference here in terms of how Power	5	really two distinct multi-billion dollar
6	Supply was set up initially, and how we've	6	projects like Mr. Marshall described them in
7	operated to date, is that it was never its	7	terms of a generation project and a
8	orrespondent of the state of th		
I	own sustaining utility that we took and	8	transmission project, and each has their own
9	acquired and put together with Hydro in this	9	transmission project, and each has their own different challenges. The energy marketing
9 10	acquired and put together with Hydro in this particular case. We built the Power Supply	9 10	transmission project, and each has their own different challenges. The energy marketing activities, we continue to manage oil and
9 10 11	acquired and put together with Hydro in this particular case. We built the Power Supply utility with the view of making sure we	9 10 11	transmission project, and each has their own different challenges. The energy marketing activities, we continue to manage oil and gas assets, and these are complex operations
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9 10 11 12 13 14 15 16 17 18 19 20 21 22	acquired and put together with Hydro in this particular case. We built the Power Supply utility with the view of making sure we didn't create duplication. So every time we looked in terms of establishing this, whether it was looking at supply chain, looking at IT services, something as simple as payroll, we knew that if the other entity needed to duplicate jobs to provide the same level of service, we wouldn't do that. We'd make sure that it was sufficient. So as much as we were trying to make them autonomous and work in an isolated way in terms of especially the regulated business,	9 10 11 12 13 14 15 16 17 18 19 20 21 22	transmission project, and each has their own different challenges. The energy marketing activities, we continue to manage oil and gas assets, and these are complex operations and inside them there's a lot of complex commercial agreements (phonetic) either inside the company between companies, or outside with some of our business partners. We've also introduced now with these new assets a number of different safety and environmental aspects that have to be managed. We also considered the governance framework and the partnerships that we have. So we have ten plus legal entities inside the company, all with associated Boards of

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1	that we work with. Then, of course, the	1	could succeed in, then we had the third
2	external stakeholder requirements, and I	2	parties come in and evaluate that job and
3	think everybody would agree right now	3	tell us how we should pay, and basically
4	they're probably as high as they've ever	4	that was the result, and the output of that
5	been. We have, obviously, always had, or	5	would be what will we call it in terms of
6	for a long time have had a regulatory	6	whether it would be a director or vice
7	stakeholder. We have the partners I just	7	president or a senior vice president or
8	mentioned with new agreements and old in	8	manager, and so forth. Location is also a
9	terms of Emera and HQ. We have interest by	9	consideration. You could look on paper and
10	the government in terms of federally and	10	suggest that supervisor on the frontlines
11	provincially. We have oversight committees.	11	maybe could supervise ten people. Well, if
12	The auditor general has been in for three	12	five of them are in Roddickton and the other
13	years now. We've had the inquiry and we	13	five are in St. Anthony, that sometimes
14	have many new indigenous groups who we have	14	proves to be a challenge and it's widely
15	relationships and partners with. So there's	15	known that we have a very large geographical
16	a lot to think about and there's a lot of	16	footprint in the province, spanning all
17	responsibilities that come with all those	17	nooks and crannies of the province. So that
18	different structural considerations. Then	18	has to be factored in when you're designing
19	we get into sort of some of the job design	19	the job responsibilities. Workload is
20	considerations when we think about	20	always an important consideration, again how
21	organizational effectiveness. These are	21	much time people have, how many hours that
22	just things that we put our mind to as we	22	they're working. We try to study our
23	develop the structures or build on to the	23	overtime numbers in terms of people who are
24	ones that we have. So spans and control	24	eligible for overtime to see if we're
25	have been talked about, making sure that we	25	staffed appropriately, that we're not
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1	feel that those spans and control are	1	driving up unnecessary cost for overtime as
2	manageable by the people who have them, and	2	opposed to hiring more people. At the same
3	there is as much art as there is science in	3	time, I know a lot of people who don't
4	that. Different people have different	4	qualify for overtime, but working, and we're
5	capabilities and capacity for managing. The	5	trying to always keep our eyes to that, and
6	job responsibilities that are assigned to	6	again there's a lot of art as much as
7	people, the same thing, some can take more,	7	science. Some of that stuff we can't track,
8	some not so much, and you have to balance	8	but you see how many vehicles are still in
9	that and make sure it's the right fit for	9	the parking lot late in the evenings and on
10	the people. The output of that is once you	10	weekends.
11	decide that and you work within the	11	(12:15 p.m.)
12	structure you have and the people you have,	12	So we have to be mindful of how much we put
13	or if you have to add people, you do, and	13	on people. Then the last thing I will speak
14	then you start to think about, okay, now how	14	to in terms of things we thought about was
15	do you organize all of that. We've	15	workforce planning and succession planning.
16	instituted different levels inside the	16	So again you're always looking at your
17	organization. We just did a recent review of	17	workforce and your demographics. We're
18	that actually in 2018 to validate what we	18	anywhere from 8 to 10 percent of the people
19	had, and actually reduced some of the levels	19	that could retire today if they chose to.
20	in our system, put some more common titles	20	You have to be ready for that if they
21	in place, if you will, and I think that's	21	elected to do so, but it also presents
22	something that people should have a sense	22	opportunities. Every time we have a person
23	for is that once we assign the scope of the	23	retire from the organization, we look at
1	for is that once we assign the scope of the work that the person had and gave them the responsibilities that we felt that they	23 24 25	retire from the organization, we look at what they were doing, we decide if there's a different way of doing it, and if there is a

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1	different way of doing it, or is there	1	that that is pending a reliability and
2	another need somewhere else inside the	2	resource adequacy study, and we're very
3	company and if there was, then we'd finally	3	sensitive to that process, so we're not
4	be able to hire into that role, and if there	4	assuming anything. The plan that I will
5	wasn't another need, then we have a chance	5	present today in a few minutes in terms of
6	to reduce that. All of those things go	6	our resource reductions, you know, it has to
7	through what we call our gaiting in process	7	remain flexible and nimble. It's a plan.
8	whereby it goes right to Jennifer, right to	8	Those change every time a big decision is
9	Jim or myself if it's on my team where – you	9	made that could influence it. If we were to
10	know, the hiring manager needs to make a	10	maintain Holyrood, obviously, that would
11	business case whether to fill that job for	11	influence it. If we were to delay its
12	every position. Even if it seems like a no-	12	repurposing, that would influence it in
13	brainer they're still brought forward. So	13	terms of timing, but if we stay on course,
14	as I've said, we continue to strive for	14	obviously, that's the key and opportunity
15	efficiencies. Nalcor agrees with Liberty	15	and was always sort of the division that
16	that there are FTE reductions that are	16	when we started out this project, we had to
17	achievable, and we can achieve the	17	bring on new resources to help us in this
18	shareholder's target of 20 million in	18	transition, but essentially at the end of
19	organizational change through efficiency.	19	the day we'd have a new asset base with
1			•
20	They've asked us to find a way to do that. I	20 21	people assigned to it, and an old aging
21	believe we're developing the path towards		asset that we would repurpose and have
22	that and I'm here to say today that that is	22	significantly less people. I think I've
23	our objective. We've been saying that all	23	kind of covered this point, but it is about
24	along. We meet with them on a semi-regular	24	managing the transition and the risks, and
25	basis. We provide our FTE counts on a	25	I'm not for one minute suggesting that
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1	quarterly basis to our Department of Natural	1	anybody here is wanting us to incur more
2	Resources, and we're focused on that. We're	2	risk or advocating that. I think we just
3	focused on achieving that number, but I will	3	have a cautious view to it in terms of
4	say that the timing of that and when we	4	what's on people's plate today. As I said
5	reduce is paramount in this situation. As	5	before, we just want to manage our way
6	I said, we're not a steady state. We're	6	thoughtfully and carefully through this
7	going through a significant transition with	7	process. So the staffing trends and
8	the Muskrat Falls construction and getting	8	outlook, I'll take you through the slide a
9	to a reliable state. So we must be mindful	9	little bit. On the left hand side
10	and thoughtful in terms of when and how, and	10	represents the number of employees and down
11	so again I would say that I think Liberty	11	along the bottom obviously are the years,
12	has taken a bit more of an aggressive	12	calendar years. The blue line represents
13	approach in the early years towards the	13	our FTE count, and not to be confused with
14	later years, and we probably take more of an	14	the number of people we have, and put a fine
15	aggressive approach in the later years than	15	point on that, if you have two people
16	the early years, but we're not that far	16	working half the time, that's equivalent to
17	apart in terms of how we get some	17	one FTE. So in 2016 through 2018, these are
18	efficiencies and savings. So I'd say the 20	18	actual FTE head count. Then for 2019
19	million in savings, one important point I'd	19	through to 2022, these are what we're
20	say we might differentiate on that needs to	20	forecasting. As you can see from this, we
21	be raised for complete transparency is that	21	are aspiring to get back towards where we
22	for us to attain that goal that has been set	22	were in 2016, going from what we expect to
23	for us, and that we set for ourselves, is	23	land at is in terms of 1,654 this year back
			· · · · · · · · · · · · · · · · · · ·
24	contingent upon the renurnosing of the	24	down to 1.492 in 2022. To take it a sten
24 25	contingent upon the repurposing of the Holyrood thermal generating plant. We know	24 25	down to 1,492 in 2022. To take it a step further, all these processes bring value and

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1	this certainly has, and it's given us every	1	effectively inside of it, and I believe that
2	chance to think critically about how we run	2	we're on a path and getting better and
3	our businesses, be challenged by different	3	better every day. If we did a reshuffle
4	points of view from others, the Board, and	4	again, we'd set ourselves back at a key and
5	Liberty, and for that reason we continue to	5	critical time, and I think that that
6	look for efficiencies that we maybe wouldn't	6	introduces risk again, and I'll be saying
7	have otherwise, or maybe we would have, but	7	the same things. This time I'm not so sure
8	maybe not so quickly. In any event, I think	8	that I see the value that would come with it
9	that we're incentivized to try to find a way	9	in terms of introducing that risk. I'll
10	to get back down to 1,463, find another 20	10	conclude by saying that Nalcor is committed
11	or 30 FTE's if we can to get right back to	11	to delivering on the target of the 20
12	where we've been aiming to get. So if we	12	million in organizational change through
13	achieve this plan, this will net us in the	13	efficiency, and we just have a different
14	vicinity of 15 to 20 million in cost	14	plan to get there. Thank you.
15	savings. In summary, rate mitigation and	15	EATON, Q.C.:
16	cost management is and will remain a top	16	Q. Thank you, Mr. Roberts. We'll move to the
17	priority for Nalcor and Hydro. It has to	17	next one now, sustainable cost management,
18	be. It's at the top of the mind for all of	18	and as I indicated, this is going to be a
19	us every day. The organizational structure	19	joint presentation. I'll just go through
20	must be such that it supports the long term	20	some material first. I'll start with Ms.
21	objectives of the company, but also the	21	Williams. As the President of Newfoundland
22	short term priorities that we have. We	22	and Labrador Hydro, can you tell us a little
23	should not and cannot underestimate the	23	bit about your position and your background?
24	significant challenges that we still face.	24	MS. WILLIAMS:
25	When we first reorganized in 2016 when Mr.	25	A. Sure. I was appointed into the position in
	D 140		
1	Page 142		Page 144
	Page 142 Marshall arrived, I was a bit apprehensive	1	Page 144 February of this year. Prior to that, I was
1 2	Marshall arrived, I was a bit apprehensive	1 2	February of this year. Prior to that, I was
1 2 3	Marshall arrived, I was a bit apprehensive myself, to be honest with you, that with	2	February of this year. Prior to that, I was in the position of Vice President,
2	Marshall arrived, I was a bit apprehensive		February of this year. Prior to that, I was
2 3	Marshall arrived, I was a bit apprehensive myself, to be honest with you, that with everything that was going on at the time, and it's fair to characterize the	2 3	February of this year. Prior to that, I was in the position of Vice President, Production for Hydro since August of 2016, and for that period when I was Vice
2 3 4	Marshall arrived, I was a bit apprehensive myself, to be honest with you, that with everything that was going on at the time, and it's fair to characterize the organization as being one in crisis, the	2 3 4	February of this year. Prior to that, I was in the position of Vice President, Production for Hydro since August of 2016, and for that period when I was Vice President, I was reporting directly to Mr.
2 3 4 5	Marshall arrived, I was a bit apprehensive myself, to be honest with you, that with everything that was going on at the time, and it's fair to characterize the organization as being one in crisis, the thought then of reshaping and reorganizing	2 3 4 5	February of this year. Prior to that, I was in the position of Vice President, Production for Hydro since August of 2016, and for that period when I was Vice President, I was reporting directly to Mr. Haynes. So he and I have been certainly
2 3 4 5 6 7	Marshall arrived, I was a bit apprehensive myself, to be honest with you, that with everything that was going on at the time, and it's fair to characterize the organization as being one in crisis, the thought then of reshaping and reorganizing the company and putting that on us as well	2 3 4 5 6	February of this year. Prior to that, I was in the position of Vice President, Production for Hydro since August of 2016, and for that period when I was Vice President, I was reporting directly to Mr.
2 3 4 5 6	Marshall arrived, I was a bit apprehensive myself, to be honest with you, that with everything that was going on at the time, and it's fair to characterize the organization as being one in crisis, the thought then of reshaping and reorganizing the company and putting that on us as well on top of everything else, I thought was	2 3 4 5 6 7	February of this year. Prior to that, I was in the position of Vice President, Production for Hydro since August of 2016, and for that period when I was Vice President, I was reporting directly to Mr. Haynes. So he and I have been certainly working together for a period now. Prior to that time, I held the role of General
2 3 4 5 6 7 8	Marshall arrived, I was a bit apprehensive myself, to be honest with you, that with everything that was going on at the time, and it's fair to characterize the organization as being one in crisis, the thought then of reshaping and reorganizing the company and putting that on us as well	2 3 4 5 6 7 8 9	February of this year. Prior to that, I was in the position of Vice President, Production for Hydro since August of 2016, and for that period when I was Vice President, I was reporting directly to Mr. Haynes. So he and I have been certainly working together for a period now. Prior to
2 3 4 5 6 7 8 9	Marshall arrived, I was a bit apprehensive myself, to be honest with you, that with everything that was going on at the time, and it's fair to characterize the organization as being one in crisis, the thought then of reshaping and reorganizing the company and putting that on us as well on top of everything else, I thought was very risky and a very daunting task, and my	2 3 4 5 6 7 8 9	February of this year. Prior to that, I was in the position of Vice President, Production for Hydro since August of 2016, and for that period when I was Vice President, I was reporting directly to Mr. Haynes. So he and I have been certainly working together for a period now. Prior to that time, I held the role of General Manager of Hydro Production, which would
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2 3 4 5 6 7 8 9 10 11	Marshall arrived, I was a bit apprehensive myself, to be honest with you, that with everything that was going on at the time, and it's fair to characterize the organization as being one in crisis, the thought then of reshaping and reorganizing the company and putting that on us as well on top of everything else, I thought was very risky and a very daunting task, and my early recommendation to him probably would have not to, but as he very clearly pointed	2 3 4 5 6 7 8 9 10	February of this year. Prior to that, I was in the position of Vice President, Production for Hydro since August of 2016, and for that period when I was Vice President, I was reporting directly to Mr. Haynes. So he and I have been certainly working together for a period now. Prior to that time, I held the role of General Manager of Hydro Production, which would have been accountable for really the hydraulic generation assets on the island
2 3 4 5 6 7 8 9 10 11 12	Marshall arrived, I was a bit apprehensive myself, to be honest with you, that with everything that was going on at the time, and it's fair to characterize the organization as being one in crisis, the thought then of reshaping and reorganizing the company and putting that on us as well on top of everything else, I thought was very risky and a very daunting task, and my early recommendation to him probably would have not to, but as he very clearly pointed out, it was riskier not to in his view in	2 3 4 5 6 7 8 9 10 11 12	February of this year. Prior to that, I was in the position of Vice President, Production for Hydro since August of 2016, and for that period when I was Vice President, I was reporting directly to Mr. Haynes. So he and I have been certainly working together for a period now. Prior to that time, I held the role of General Manager of Hydro Production, which would have been accountable for really the hydraulic generation assets on the island for Hydro, and prior to that, I was the
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2 3 4 5 6 7 8 9 10 11 12 13 14 15	Marshall arrived, I was a bit apprehensive myself, to be honest with you, that with everything that was going on at the time, and it's fair to characterize the organization as being one in crisis, the thought then of reshaping and reorganizing the company and putting that on us as well on top of everything else, I thought was very risky and a very daunting task, and my early recommendation to him probably would have not to, but as he very clearly pointed out, it was riskier not to in his view in terms of finding a way to bring stability to the organization, get it on a path to stability. So his view was in order to meet	2 3 4 5 6 7 8 9 10 11 12 13 14 15	February of this year. Prior to that, I was in the position of Vice President, Production for Hydro since August of 2016, and for that period when I was Vice President, I was reporting directly to Mr. Haynes. So he and I have been certainly working together for a period now. Prior to that time, I held the role of General Manager of Hydro Production, which would have been accountable for really the hydraulic generation assets on the island for Hydro, and prior to that, I was the Manager of Regulatory Engineering, which would have had a fairly heavy liaison role between Hydro and the Board, mostly the
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Marshall arrived, I was a bit apprehensive myself, to be honest with you, that with everything that was going on at the time, and it's fair to characterize the organization as being one in crisis, the thought then of reshaping and reorganizing the company and putting that on us as well on top of everything else, I thought was very risky and a very daunting task, and my early recommendation to him probably would have not to, but as he very clearly pointed out, it was riskier not to in his view in terms of finding a way to bring stability to the organization, get it on a path to stability. So his view was in order to meet those four major priorities he had outlined, those objectives, we had to, we had to change. The same goes for now. Those	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	February of this year. Prior to that, I was in the position of Vice President, Production for Hydro since August of 2016, and for that period when I was Vice President, I was reporting directly to Mr. Haynes. So he and I have been certainly working together for a period now. Prior to that time, I held the role of General Manager of Hydro Production, which would have been accountable for really the hydraulic generation assets on the island for Hydro, and prior to that, I was the Manager of Regulatory Engineering, which would have had a fairly heavy liaison role between Hydro and the Board, mostly the Board staff. I started with Hydro in 2014 in the fall, just about five years ago right now, and prior to that, I was with the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Marshall arrived, I was a bit apprehensive myself, to be honest with you, that with everything that was going on at the time, and it's fair to characterize the organization as being one in crisis, the thought then of reshaping and reorganizing the company and putting that on us as well on top of everything else, I thought was very risky and a very daunting task, and my early recommendation to him probably would have not to, but as he very clearly pointed out, it was riskier not to in his view in terms of finding a way to bring stability to the organization, get it on a path to stability. So his view was in order to meet those four major priorities he had outlined, those objectives, we had to, we had to change. The same goes for now. Those changes are really starting to take hold. I	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	February of this year. Prior to that, I was in the position of Vice President, Production for Hydro since August of 2016, and for that period when I was Vice President, I was reporting directly to Mr. Haynes. So he and I have been certainly working together for a period now. Prior to that time, I held the role of General Manager of Hydro Production, which would have been accountable for really the hydraulic generation assets on the island for Hydro, and prior to that, I was the Manager of Regulatory Engineering, which would have had a fairly heavy liaison role between Hydro and the Board, mostly the Board staff. I started with Hydro in 2014 in the fall, just about five years ago right now, and prior to that, I was with the International Airport Authority here locally
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Marshall arrived, I was a bit apprehensive myself, to be honest with you, that with everything that was going on at the time, and it's fair to characterize the organization as being one in crisis, the thought then of reshaping and reorganizing the company and putting that on us as well on top of everything else, I thought was very risky and a very daunting task, and my early recommendation to him probably would have not to, but as he very clearly pointed out, it was riskier not to in his view in terms of finding a way to bring stability to the organization, get it on a path to stability. So his view was in order to meet those four major priorities he had outlined, those objectives, we had to, we had to change. The same goes for now. Those changes are really starting to take hold. I see it every day. I think Jennifer and Jim	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	February of this year. Prior to that, I was in the position of Vice President, Production for Hydro since August of 2016, and for that period when I was Vice President, I was reporting directly to Mr. Haynes. So he and I have been certainly working together for a period now. Prior to that time, I held the role of General Manager of Hydro Production, which would have been accountable for really the hydraulic generation assets on the island for Hydro, and prior to that, I was the Manager of Regulatory Engineering, which would have had a fairly heavy liaison role between Hydro and the Board, mostly the Board staff. I started with Hydro in 2014 in the fall, just about five years ago right now, and prior to that, I was with the International Airport Authority here locally as the Manager of Infrastructure, and my
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Marshall arrived, I was a bit apprehensive myself, to be honest with you, that with everything that was going on at the time, and it's fair to characterize the organization as being one in crisis, the thought then of reshaping and reorganizing the company and putting that on us as well on top of everything else, I thought was very risky and a very daunting task, and my early recommendation to him probably would have not to, but as he very clearly pointed out, it was riskier not to in his view in terms of finding a way to bring stability to the organization, get it on a path to stability. So his view was in order to meet those four major priorities he had outlined, those objectives, we had to, we had to change. The same goes for now. Those changes are really starting to take hold. I see it every day. I think Jennifer and Jim will elaborate on that in terms of how we're	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	February of this year. Prior to that, I was in the position of Vice President, Production for Hydro since August of 2016, and for that period when I was Vice President, I was reporting directly to Mr. Haynes. So he and I have been certainly working together for a period now. Prior to that time, I held the role of General Manager of Hydro Production, which would have been accountable for really the hydraulic generation assets on the island for Hydro, and prior to that, I was the Manager of Regulatory Engineering, which would have had a fairly heavy liaison role between Hydro and the Board, mostly the Board staff. I started with Hydro in 2014 in the fall, just about five years ago right now, and prior to that, I was with the International Airport Authority here locally as the Manager of Infrastructure, and my accountability was really looking after the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Marshall arrived, I was a bit apprehensive myself, to be honest with you, that with everything that was going on at the time, and it's fair to characterize the organization as being one in crisis, the thought then of reshaping and reorganizing the company and putting that on us as well on top of everything else, I thought was very risky and a very daunting task, and my early recommendation to him probably would have not to, but as he very clearly pointed out, it was riskier not to in his view in terms of finding a way to bring stability to the organization, get it on a path to stability. So his view was in order to meet those four major priorities he had outlined, those objectives, we had to, we had to change. The same goes for now. Those changes are really starting to take hold. I see it every day. I think Jennifer and Jim will elaborate on that in terms of how we're growing into this structure, and anybody	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	February of this year. Prior to that, I was in the position of Vice President, Production for Hydro since August of 2016, and for that period when I was Vice President, I was reporting directly to Mr. Haynes. So he and I have been certainly working together for a period now. Prior to that time, I held the role of General Manager of Hydro Production, which would have been accountable for really the hydraulic generation assets on the island for Hydro, and prior to that, I was the Manager of Regulatory Engineering, which would have had a fairly heavy liaison role between Hydro and the Board, mostly the Board staff. I started with Hydro in 2014 in the fall, just about five years ago right now, and prior to that, I was with the International Airport Authority here locally as the Manager of Infrastructure, and my accountability was really looking after the various assets on the airport property,

1	er 9, 2019		Muskrat Falls Rate Mitigation Hearing
1	Page 145		Page 147
1	to 2011, and would have had accountability	1	first. If you would bring up the first
2	and responsibility at various times for	2	slide.
3	generation assets, as well as some of the	3	MS. WILLIAMS:
4	poles and the waters. I left as a	4	A. As Mr. Eaton mentioned, Mr. Haynes and I are
5	Superintendent level.	5	going to be presenting jointly today. I
6	EATON, Q.C.:	6	will note that as we participated through
7	Q. Thank you. Mr. Haynes, we've heard a bit	7	the process with Board staff, with Liberty,
8	about you already from Mr. Marshall.	8	with Synapse, as well as the other parties
9	MR. HAYNES:	9	present, our aim has certainly been to
10	A. Yes, I heard that. Good morning, Madam	10	provide a fair and balanced assessment of
11	Chair, and Commissioners. We're here to	11	the scenarios that were before us, and with
12	help and share our experiences and so on	12	regards to the questions that were posed to
13	wherever we can help in this process. I	13	us. There were many options examined
14	started on a permanent basis with	14	through this exchange of information, as
15	Newfoundland Hydro in 1977, which is 43	15	well as informative and constructive
16	years ago, which has been a while. I worked		dialogue. As you've already heard from Mr.
17	in most areas of hydro. I also spent ten	17	Marshall respecting his view on the required
18	years with Churchill Falls Labrador	18	organizational structure for this time and
1	•		
19	Corporation, which was a great experience,	19	provincial mandate, Mr. Haynes and I felt it
20	by the way. I'd also like to say I worked	20	important to present on how the structure is
21	with a lot of people in Hydro and later	21	functioning today with respect to ensuring
22	Nalcor, who basically worked hard for the	22	cost management. We know that effective and
23	mandate of both Hydro and Nalcor, and I	23	sustainable cost management contributes to
24	appreciate the mentorship of all those	24	rate mitigation. Through the evidence
25	people. Some of those are in the room	25	submitted thus far, we have aimed to
	Page 146		Page 148
1	today. My work experience with Hydro and	1	domanstrate our efforts to date and discuss
	* * *		demonstrate our efforts to date and discuss
2	CF(L)Co include engineering design,	2	opportunities for the future as they relate
3	CF(L)Co include engineering design, construction, specifically Holyrood Unit	2 3	opportunities for the future as they relate to cost management. So therefore, our
	CF(L)Co include engineering design,	2 3 4	opportunities for the future as they relate to cost management. So therefore, our presentation is titled "Sustainable Cost
3	CF(L)Co include engineering design, construction, specifically Holyrood Unit Number 3. I was out there for a couple of years. I worked for a number of years in	2 3	opportunities for the future as they relate to cost management. So therefore, our
3 4	CF(L)Co include engineering design, construction, specifically Holyrood Unit Number 3. I was out there for a couple of	2 3 4	opportunities for the future as they relate to cost management. So therefore, our presentation is titled "Sustainable Cost
3 4 5	CF(L)Co include engineering design, construction, specifically Holyrood Unit Number 3. I was out there for a couple of years. I worked for a number of years in	2 3 4 5	opportunities for the future as they relate to cost management. So therefore, our presentation is titled "Sustainable Cost Management". We want any efforts undertaken
3 4 5 6	CF(L)Co include engineering design, construction, specifically Holyrood Unit Number 3. I was out there for a couple of years. I worked for a number of years in system planning on the transmission side	2 3 4 5 6	opportunities for the future as they relate to cost management. So therefore, our presentation is titled "Sustainable Cost Management". We want any efforts undertaken or initiatives implemented to be enduring.
3 4 5 6 7	CF(L)Co include engineering design, construction, specifically Holyrood Unit Number 3. I was out there for a couple of years. I worked for a number of years in system planning on the transmission side doing technical and economic studies, many of which actually came before this Board for	2 3 4 5 6 7	opportunities for the future as they relate to cost management. So therefore, our presentation is titled "Sustainable Cost Management". We want any efforts undertaken or initiatives implemented to be enduring. This requires thoughtful deliberation on the decisions being made and consideration of
3 4 5 6 7 8	CF(L)Co include engineering design, construction, specifically Holyrood Unit Number 3. I was out there for a couple of years. I worked for a number of years in system planning on the transmission side doing technical and economic studies, many	2 3 4 5 6 7 8	opportunities for the future as they relate to cost management. So therefore, our presentation is titled "Sustainable Cost Management". We want any efforts undertaken or initiatives implemented to be enduring. This requires thoughtful deliberation on the
3 4 5 6 7 8 9	CF(L)Co include engineering design, construction, specifically Holyrood Unit Number 3. I was out there for a couple of years. I worked for a number of years in system planning on the transmission side doing technical and economic studies, many of which actually came before this Board for approval one way or another. With respect to Churchill Falls, I went there as the	2 3 4 5 6 7 8 9	opportunities for the future as they relate to cost management. So therefore, our presentation is titled "Sustainable Cost Management". We want any efforts undertaken or initiatives implemented to be enduring. This requires thoughtful deliberation on the decisions being made and consideration of the ability to maintain those savings on a long-term basis that does not compromise our
3 4 5 6 7 8 9 10	CF(L)Co include engineering design, construction, specifically Holyrood Unit Number 3. I was out there for a couple of years. I worked for a number of years in system planning on the transmission side doing technical and economic studies, many of which actually came before this Board for approval one way or another. With respect to Churchill Falls, I went there as the Manager of Operations and when I left in	2 3 4 5 6 7 8 9	opportunities for the future as they relate to cost management. So therefore, our presentation is titled "Sustainable Cost Management". We want any efforts undertaken or initiatives implemented to be enduring. This requires thoughtful deliberation on the decisions being made and consideration of the ability to maintain those savings on a
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the non regulated assets of Nakor and these include CP(L)Co and I just thought I'd a explain a little bit what that is for the benefit of people who may not know because it has not been a subject of any regulatory review. So Chruchill is a 5428 megawatt plant in West Central Labrador and basically capable of generating about 34 terawatt bours a year, most of which is sold under a long-term contract to Hydro Quebee; however, CF(L)Co dose all to Newfoundland Hydro to, different contract amounts. They sell the recapture amount which is 300 megawatts and roughly 2.3 terawatt hours a year that is used basically right now in Labrador. They lobock which basically started once the Twin Falls contract expired with CF(L)Co and that passed as a sell to Newfoundland Hydro the Twinco recapture amount which is 300 megawatts and the roughly 2.3 terawatt hours a year that is used basically pil now in Labrador. They lobock which basically started once the Twin Falls contract expired with CF(L)Co and that passed by the seems and the polant in North Page 150 Newfoundland Hydro, is basically primarily for his year, I should say. So that's the correct of which was delivered to the Island over of which was delivered to the Island over page 150 with those two lines is a major new substation in Soldier's Pond which is the biggest AC station on the lisland connected system. The only bigger station we have is Churchill Falls as defended by the system of the station on the lisland connected system. The only bigger that's a major return to biggest AC station on the lisland connected system. The only bigger at the biggest AC station on the lisland connected system. The only bigger at the story were sail to mere fine to mere the station which was commissioned in later 2018 and which has been functioning pretty well since then, but it's new, the challenges of DC components a larrady mentioned. The last major new the surface was Muskart page 13 with those two lines is attain on the lisland connected system. The only bigger that's	October 9,	, 2019		Muskrat Falls Rate Mitigation Hearing
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22 which we are and Mr. Marshall mentioned 22 they would also use that power and that is a	1	- · ·		· · · · · · · · · · · · · · · · · · ·
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1.23 vesterday we are having some concerns with 1.23 Newfoundland load, but it's a mining load	1	rylaida ryya ana and Ma Manghall manti anad	22	they would also use that power and that is a
	1 23			
	1	yesterday we are having some concerns with	23	Newfoundland load, but it's a mining load
progressing, but very slowly. Associated 25 unregulated load. The plant is 18 megawatts	24	yesterday we are having some concerns with the software, but it is, you know, it is	23 24	Newfoundland load, but it's a mining load and it's also considered to be an

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1	and roughly, I think 100 to 140 gigawatt	1	makes sense to do so. So, we use Hydro's
2	hours a year capability, depending on	2	supply chain department. So, all our
3	hydrology, of which right now the Quebec	3	purchases will flow through there. There's
4	component is probably less than 50 gigawatt	4	a bit of a transition now as we move from
5	hours a year. So, it's an excess energy	5	the LCP construction side into the normal
6	which can be made available to TATA Mines.	6	O&M future. So, there's some movement of
7	With respect to Hydro and Power Supply,	7	all that there, and we also look at that as
8	we are collaborating quite a bit with	8	an opportunity to, you know, combine
9	respect to – obviously we're cooperating	9	purchases and make sure that we're packaging
10	with this review as is warranted and as	10	things up so we get the best value for the
11	being an important undertaking, from our	11	dollar and obviously there's an allocation
12	perspective. But we are collaborating quite	12	of costs to which goes where, but that'll
13	a bit and focused on sustainable cost	13	look after itself from that perspective.
14	management, also with respect to	14	Drafting department, we have decided
15	reliability. We obviously don't want	15	that we do not need to establish a draft
16	reliability to falter, you know, and there	16	department for Power Supply. We will
17	is always a balance between reliable supply	17	piggyback onto the drafting department of
18	and cost, and you know, we want to get to	18	Hydro and use their drawing management
19	that sweet spot, if you will, whereby it's a	19	system, which is critical from the point of
20	reasonable number that assures reasonable	20	view of retrieval of drawings and keeping
21	reliability at a reasonable cost. We don't	21	things up to date. So, we're not
22	want to gold plate things and we really	22	reinventing the wheel there or going out and
23	don't want to duplicate a lot of effort	23	creating something new.
24	here, and we've made strides to do that.	24	We also, on the operation and
25	So, if I move over to the next slide.	25	technology, and by that I mean all the
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1	So, I just want to talk about some of the	1	electronics and cyber security things that
2	collaboration that we have done. You know,	2	everybody worries about these days. We will
3	I'm going to repeat myself a little bit.	3	collaborate and work with Newfoundland Hydro
4	First and foremost, we're all focused	4	who already have taken on that role for
5	on safety of our employees, contractors and	5	Nalcor. And we will work within that group.
6	the general public. That is a given and I	6	We'll establish, you know, a steering
7	don't think we'll ever slack off on that	7	committee or participation and make sure
8	part, and sometimes there's a price, but you	8	that everybody's interests are looked after
9	know, we want to have a safe environment for	9	and it is a cyber issue of software.
10	our employees and the public and our	10	Mr. Marshall mentioned software on the
11	contractors.	11	LIL. Software is kind of a pretty pervasive
12	With respect to reliability to the	12	thing these days and, you know, you see it
13	customers and cost control, there are many	13	on the 737 Max. You see it on the LIL.
14	areas of shared services already. Power	14	It's a concern for everybody and you have to
15	Supply did not go out and create a whole new	15	keep it update and you have to keep it
16	company from the point of view of self-	16	secure from hackers and we do get lots of
17	supporting in that sense. We share services	17	attempted hacking each and every day, which
18	with Nalcor. We use their IT resources. We	18	is a separate issue. So, we are all in the
19	look at the – we use their financial	19	same place there.
20	services, investment evaluation, treasury,	20	Network services again on
21	insurance, legal, human resources. So, we	21	communications we're not establishing. Even
22	have not duplicated that and didn't see the	22	though the LIL owns the fibre link between,
23	need to for what we were doing for Power	23	you know, Muskrat and Churchill and between
24	Supply.	24	Churchill and Muskrat and Soldier's Pond and
25	We also use services of Hydro where it		Muskrat to Churchill, you know, we have some
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1	resources to work on those things. But from	1	regulated or unregulated.
2	an overall network services point of view,	2	So, you know, when you go back to the
3	we plan to use Hydro for most of that, where	3	foundational things from the point of view
4	it makes sense, you know. And obviously	4	of utilities, we're not different. We will
5	there's a lot of geography between here and	5	share our resources. We will share – we'll
6	Churchill, but we're doing that – from my	6	collaborate on these different standards,
7	perspective, we're doing it in the most cost	7	engineering standards which reinforce that.
8	effective way.	8	We're not duplicating everything we do.
9	The other area where we would continue	9	What we have, we don't think we have much
10	to use Hydro is that if we were looking at	10	duplication from that perspective at all.
11	some of the development opportunities, like	11	On the operating side, it's slightly
12	from the point of view of any future	12	different, but the principles are not
13	generation or future projects that may bring	13	different.
14	value to the Province as a whole that would	14	With respect to future opportunities
15	be outside of what Hydro needs from a	15	from Power Supply, you know, right now, most
16	regulatory point of view.	16	of my worries are not with respect to –
17	We will also need to use their	17	there's lots of worries, and I will say that
18	transmission planning department. So we're	18	my 66-year-old brain does hurt sometimes.
19	not recreating that particular group. We	19	I'll say that. Not to repeat Monty Python,
20	would actually pay for those services in	20	I think who had a 50th anniversary last
21	primarily the transmission planning who do	21	weekend, but they brought that up.
22	all the technical studies on the systems,	22	And the things that keep me awake are
23	whether they're interconnected or isolated	23	not so much the day-to-day things that are
24	or whatever. They do that. They are the	24	on the go in Churchill Falls and things like
25	brains in that particular operation and we	25	that. There's lots of issues there.
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	don't see a need to recreate that. We will	1	There's lots of things resolving, but you
2	work with them to provide the reports that	2	know, there are people working at that. You
3	we need to do other things.	3	know, getting to steady state with respect
5	The other thing I just want to reinforce is on the other core things that	4 5	to the new assets is a concern, and I do
6	we do, whether they're on engineering	6	think that we have the opportunity to streamline a bit later on, but we can't
7	standards or asset management, cyber and	7	start off, you know, with a deck half
8	security oversight, we will do those in	8	stacked.
9	conjunction with Hydro.	9	We have to start off where we're
10	So we will have, right now, the VP of	10	comfortable and we have to look at
11	Engineering Power Supply and a VP of	11	opportunities as we move along in any way
12	Engineering in Hydro collaborate and work	12	that we can actually streamline costs,
13	together on asset management principles so	13	whether they're labour or non-labour costs,
14	that we have the same fundamental basis and	14	and we've taken that to the hilt. We've
15	a shared understanding of what that means	15	already cutback some of the things that we
16	and what is the best from a utility	16	started off thinking that we would need,
17	perspective, so we're not out there going in	17	particularly from, you know, the 100 and
18	different directions. There is a group in	18	whatever million dollars. We've already
19	Hydro Engineering who have a few more people	19	trimmed that back and we will continue to
20	dedicated to that and basically, we will	20	modify that and look for savings wherever we
21	provide input back there and express our	21	can. But we're not there yet.
22	views and come to a collaborative, you know,	22	The other thing I wanted to mention,
23	point where everybody is content and that we	23	just to bring it into context, is in
24	are doing it right and most effective thing	24	December of this year, the 4th with be the
25	from all customers, whether they're	25	48th anniversary of first power at Churchill
1 4.1			

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1	Falls. So, Churchill Falls, as I mentioned	1	it's not a firm, and we're not – you know,
2	earlier is a 5400 megawatt facility. It's	2	Hydro Quebec, to Hydro Quebec, they're a
3	unique. It's world-classed and I had ten	3	priority customer. Any other sales to mines
4	great years there, loved every minute of	4	will be more of a secondary as available
5	working on those assets and with the people.	5	nature. But there's lots of energy
6	But it is getting to be 50 years old and we	6	available. As I said, that plan is under
7	are – we have started a concerted	7	review.
8	reinvestment effort to ensure those assets	8	But overall, the capital plan of Power
9	are going to be well suited to 2041 when the	9	Supply is in the 70 to 80 million dollars a
10	contracts with Hydro Quebec expire and that	10	year. It's not just something that we can
11	there's a whole new world in front of us	11	do off the corner of a desk. We need a
12	where .2 cents obviously will not the rate,	12	dedicated and focused effort to make that
13	the selling price. It'll be more market	13	happen and to deliver to our customers via
14	based, from my perspective. And we want	14	Hydro or Hydro Quebec or whomever. But we
15	those assets to be ready to take that	15	will seek to streamline that and reduce our
16	challenge in 2041.	16	labour over time.
17	So, we are spending, I think, in excess	17	But on the new assets, I think we just
18	of 60 million, I think, 65 or 66 million	18	need to be a little bit cautious before we
19	dollars a year we're spending on those	19	start, you know, trimming that down too far.
20	assets now on an annual basis. We have, you	20	We need to have some operating experience on
21	know, done work to the powerhouse. We are	21	LIL. You know, the synchronized condensers
22	actually reviewing our plan right now	22	are new. They should be simple, but they
23	because it's a bit stale. We're revising	23	have had a few problems which we're working
24	the costs and revising the prioritization of	24	through with a different part of GE Power,
25	that. But I don't expect that's going to	25	as opposed to GE Grid, but they've taken
	Page 162		Page 164
1	drop. I think we'll still continue to spend	1	ownership of that and is working towards it.
2	about 60 to 65 million dollars a year,	2	I'm going to mention that – before I
3	basically renewing those 50-year-old assets	3	turn it back to Jennifer, I'd already
4	and, you know, Hydro has experienced that we	4	mentioned the capital program and the O&M
5	have Bay d'Espoir 50 years old. There are a	5	budget between CF(L)Co and NEM, and I'm not
6	few things catching up. So, we all, both	6	talking about the total budget, but just on
7	Hydro and Nalcor, need to be ahead of that.	7	a salary and labour side, is roughly 70
8	You know, years ago, CF(L)Co.'s budget	8	million dollars a year in total, and we're –
9	might have been six to seven million	9	but I would go back to my perspective is I
10	dollars, and you know, we're ten times that,	10	came from Hydro, that regulatory perspective
11	and it requires a fair bit of work and	11	and least cost perspective. Even my ten
12	oversight to make that happen.	12	years in Churchill Falls, that was still the
13	Menihek itself that plant was built, as	13	way we tried to operate.
14	I mentioned, in 1954. In the next five	14	(12:45 p.m.)
15	years, we're anticipating I think it's about	15	We may not have had Public Utilities
16	40 million dollar capital investment. It's	16	Board oversight, but from the point of view
17	a bit lumpy. It's down and up depending	17	of the principles that you (unintelligible)
18	what we're doing. But that plant is also	18	the utility, it is a least cost, you know,
19	under renewal. However that is work that we	19	and a least cost approach and I take that to
20	manage; that we tender and execute, but	20	the table and I challenge my people under
21	basically it's all recovered from Hydro	21	capital budget and operating costs on a
22	Overhead years land visit and theme are dome.	22	regular basis as to, you know, is that the
	Quebec, you know, and there are some		· · · · · · · · · · · · · · · · · · ·
23	provisions to sharing some costs with any	23	cheapest way to do it long term. I don't
1	•		· · · · · · · · · · · · · · · · · · ·

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1	Page 165		Page 167
1	you know, spending a bunch of capital money	1	30 percent incurred. We've implemented a
2	that will save a bunch of other O&M is the	2	new attendance management program that has
3	right decision as long as it's baked and	3	reduced, in the first full year of
4	analysed and all the risks and puts and	4	operation, the number of sick days taken per
5	takes are reviewed; that this is the least	5	employee by ten percent.
6	cost approach. And Mike mentioned that	6	And another initiative that we're using
7	Jennifer challenges – we challenge each	7	is the recognition of Corner Brook Pulp and
8	other on that there.	8	Paper's capacity assistants in some of our
9	And when I came into Power Supply, not	9	spinning reserves. So that has materially
10	building silos, but I'm trying to build	10	contributed to reduced costs on our gas
11	bridges between Hydro and the project	11	turbine assets.
12	delivery team in Lower Churchill, just to	12	So that's some, an example of some of
13	make sure we get to go – we get these assets	13	the things that we've undertaken already
14	in service and we get them operating	14	with regards to removing costs from the
15	reliably. So, I was going to turn it back	15	system within Hydro. These types of things
16	to Jennifer now.	16	certainly build on the culture that we've
17	MS. WILLIAMS:	17	been implementing over the last couple of
18	A. Okay. I would just note that certainly we	18	years as well, with regards to innovation
19	agree with Liberty, as our evidence would	19	and productivity.
20	have indicated, that in considering the	20	We would have been before the Board in
21	opportunities to contribute to rate	21	our last General Rate Application talking
22	mitigation with regards to saving costs on	22	about an initiative that we're really trying
23	the system, we agree that the appropriate	23	to at the grassroots level, really trying to
24	path to secure those cost savings is through	24	build a culture with the employees to
25	pursued efficiencies within the current	25	identify opportunities for cost savings and
23	Page 166	23	Page 168
1	Hydro structure. And as part of our	1	trying to implement those as much as
2	evidence, we put forward a plan to pursue	2	possible. So, it's not just five or ten
$\frac{2}{3}$	efficiencies and are committed to the two		
1 .)	efficiences and are committed to the two		
1	million dollars in cost savings as we have	3	people that we're asking to come up with
4	million dollars in cost savings as we have	3 4	people that we're asking to come up with ideas for cost savings. We're asking for
4 5	indicated.	3 4 5	people that we're asking to come up with ideas for cost savings. We're asking for all our employees to come up with cost
4	indicated. We have started some of those savings	3 4	people that we're asking to come up with ideas for cost savings. We're asking for all our employees to come up with cost savings. We are really trying to build that
4 5 6 7	indicated. We have started some of those savings opportunities obviously. I think PUB-Nalcor	3 4 5 6 7	people that we're asking to come up with ideas for cost savings. We're asking for all our employees to come up with cost savings. We are really trying to build that culture within the organization.
4 5 6 7 8	indicated. We have started some of those savings opportunities obviously. I think PUB-Nalcor 218 was when we started on some of the items	3 4 5 6 7 8	people that we're asking to come up with ideas for cost savings. We're asking for all our employees to come up with cost savings. We are really trying to build that culture within the organization. So those larger initiatives I just
4 5 6 7 8 9	indicated. We have started some of those savings opportunities obviously. I think PUB-Nalcor 218 was when we started on some of the items that we've communicated, but there is	3 4 5 6 7 8 9	people that we're asking to come up with ideas for cost savings. We're asking for all our employees to come up with cost savings. We are really trying to build that culture within the organization. So those larger initiatives I just mentioned are really complimentary to – and
4 5 6 7 8 9 10	indicated. We have started some of those savings opportunities obviously. I think PUB-Nalcor 218 was when we started on some of the items that we've communicated, but there is additional efforts that we are taking. In	3 4 5 6 7 8 9 10	people that we're asking to come up with ideas for cost savings. We're asking for all our employees to come up with cost savings. We are really trying to build that culture within the organization. So those larger initiatives I just mentioned are really complimentary to – and I guess, in addition to those smaller
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1	practices. If you consider the various	1	could achieve it over three years. Our
2	geographic areas that we work, we currently	2	commitment is it would take we think three
	have planning and scheduling functions	3	to five years.
	individually in all those geographic	4	There is an application that we want to
	regions. Liberty has spoken to us about	5	bring before the Board, working with the
6	that as an observation in the past. They	6	shareholder, for Hydro to purchase these
7	don't believe it's the most efficient. We	7	assets. As some parties would know, the
1	have been looking at that ourselves as well	8	revenue that Exploits operates under is a
	and we have committed to changing that	9	four cent per kilowatt hour PPA. It has
	process.	10	been the amount of funding that we have had
11	It will take a couple of years for us	11	access to for both capital and operating and
12	to execute the work and to start to see	12	so, that approach will change if we have the
_	those efficiencies associated with	13	assets, you know, come into Hydro under the
	centralizing that planning. It doesn't	14	regulated purview of the Board and then we
	necessarily mean we will have everybody	15	would be working with the Board to implement
	moving into Hydro Place, but it is really	16	the appropriate investments to ensure we can
17	effectively a significant change in	17	indeed get those costs out. So, we're
	reporting structure, as well as	18	hoping that we can get that application,
	standardization of the processes that we use	19	subject to our own Board of Directors'
	and improved metrics to understand how we're	20	approval and working with the shareholder,
	functioning and therefore then we have	21	hopefully before Christmas.
	improved metrics, we'll be able to better	22	With regard to the capital planning, as
1	manage and execute the work.	23	is noted on the slide, in light of the rate
24	Considering operational technology	24	pressures that are certainly facing
25	advances that we want to accelerate within	25	customers in the province, Hydro, over the
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1	the organization, we believe there's a great	1	last two capital budget planning cycles, has
	opportunity for Hydro to advance the uptake	2	looked at where we can be a little more
	on technology within the utility sector. We	3	aggressive in taking capital – planned
	probably had a slower rate of adoption than	4	capital expenditures out of our five-year
	say some of our utility counterparts and we	5	forecast. And if we go back two years in
1	believe that there's ways for us to	6	the capital budget cycle and compare it to
1	implement technology to get costs out of the	7	the current capital budget that we've put on
	system.	8	the record for this current cycle, on a
9	We want to implement technologies that		five-year basis, we've reduced the total
1	are not necessarily reliability	10	capital five-year spend by 250 million.
1	advancements, but more just absolute cost	11	We don't want to go too far and that
	reduction. We have not utilized mobile	12	does feel fairly significant and we'll
1	technology, for example, very much to date.	13	certainly be monitoring the exact outcome
	So that would be an example of an area that	14	from a reliability perspective. So, but
	we think that we can certainly utilize and	15	we've recognized it and we've already taken
	it will help us get costs out of where we	16	action toward that and we're going to make
	currently are.	17	sure that we do our best to implement just
18	Regarding the Exploits operations, we	18	the right amount of capital.
	are committing, as was in our evidence, to a	19	Regarding contracting procurement, Mr.
	multi-year review of the assets and how we	20	Haynes mentioned it and Ms. Hutchens might
	operate to remove two and a half million	21	speak to it as well, but our evidence also
	dollars annually, as suggested by Liberty.	22	noted it, that we recognize that there is
	It's important to note that I think Liberty	23	certainly potential benefits in joint
	did reference it a couple of times in their	24	purchasing power.
25	report. I think at one point they hoped we	25	We are availing of least cost

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1	opportunities through the Provincial	1	particular and the other is related to the
2	Government procurement and purchasing	2	LIL, the Maritime Link and the LTA.
3	program, as well as internal consolidated	3	On this first slide, you'll see it's
4	procurement, and we are open to exploring	4	about the Muskrat Falls plant, and you know,
5	opportunities with Newfoundland Power to	5	I think this is a way under the current
6	determine which, if any, activities may be	6	structure of how we're working, again with
7	of benefit to customers from a joint	7	the vision that Mr. Marshall spoke about,
8	procurement perspective.	8	why we're structured where we are today.
9	And the last note there under the plan	9	What this committee here in particular
10	is the executive of a human resource	10	does is it does provide for some visibility
11	management plan. Over the next – within	11	and transparency that Hydro is going to get
12	this year, Mr. Roberts mentioned it and I'll	12	and that we can certainly then share with
13	just use an example. Within Hydro, I think	13	the Board, you know, how we're providing for
14	in 2019, eight percent of employees are	14	that approval and that oversight of costs
15	eligible to retire. That is not to suggest	15	that are indeed being incurred. Again, this
16	that eight percent of the people are all	16	is for the Muskrat Falls plant.
17	going to say they want to retire. And it	17	On this committee, it's a committee of
18	also doesn't mean to suggest that we would	18	four members. Hydro has allocated its two
19	think it's appropriate or prudent to have	19	members and Jim, Mr. Haynes will have his
20	eight percent of people retire from the	20	two members. And the intention is not for
20 21	organization.	21	these four people to be the only people that
22	However, it does give us an indication	22	would ever review the operating capital
23	of the opportunity of the ability to avail	23	budgets as noted, the maintenance plans,
23 24	of attrition, as a way to remove FTEs from	24	long-term maintenance plan. Behind those
25	·	25	· · · · · · · · · · · · · · · · · · ·
23	the system on a very thoughtful, methodical	23	four people will be others who will assist
1	Page 174	1	Page 176
1	process, especially as we work through over	1	with review and documentation of the kinds
2	the next couple of years the kinds of	2	of questions and sort of the reviews that
3	programs that I mentioned, the work	3	we've taken.
4	management and execution centralizing, as	4	So, the timing of this committee,
5	well as the operational technology advances.	5	according to the PPA, is really it's getting
6	These types of, you know, very targeted	6	underway right now. The first step of the
7	initiatives, in addition to knowing we do	7	committee is to develop the documentation
8	have employees that are approaching that	8	requirements and to come to agreement on
9	retirement age, we believe will give us the	9	exactly how we're going to set up a review
10	opportunity to contribute to FTE reductions	10	process and what documents do we want to
11	that will also contribute to the two million	11	have so that we can then share that with the
12	dollar savings that we've committed to.	12	Board at a future time.
13	So, these are really the broad strokes	13	MR. HAYNES:
14	of the commitments that we've made. Also in	14	A. If I could just step in there?
15	our evidence was a commitment to report to	15	MS. WILLIAMS:
16	the Board on how that plan is working out	16	A. Yeah.
17	and exactly the steps that we've made and we	17	MR. HAYNES:
18	intent to, late spring, early summer of next	18	A. Just on that one there on, you know, the
19	year, provide an update and to the other	19	documentation. I think we need to recognize
20	parties certainly, and update on how we're	20	that the amount of rigour putting into
21	doing with the further development of this	21	Public Utilities Board applications for
22	plan. And I will change to the next slide.	22	capital, for instance, is probably more
23	The next two slides discuss two joint	23	robust than what goes into Power Supply
24	operating committees. They are – one is	24	right now, what has been historically there.
25	related to the Muskrat Falls plant in	25	But I've already had discussions with the
	•		<u> </u>

Page 177 Page 179 Engineering VP and it is recognized there 1 three Power Supply and two Emera 1 2 needs to be more, and I'm come from that 2 representatives. It doesn't have the same, 3 3 culture of regulated review whereby these I'll call it, approval authority, again 4 things need to be rationalized and 4 because the committee is quite different, 5 justified. It's not a – you know, it's down 5 with Emera as a part of the group. 6 to must have from a reliability safety point 6 However, as Emera and Nalcor are 7 of view, is there a needs to have and then 7 working together in reviewing each other's 8 there's a want. Now they have to be 8 notes that you can see there, the O&M 9 9 prioritized. activities, the O&M standards, the plans, 10 So that discussion has already started 10 the annual maintenance plans, sorry, the capital budget, other items, Hydro is going 11 and I fully agree that we need to – you 11 12 know, it may not be to the level that gets, 12 to be a part of the committee. So, we'll you know, to a full and intervenor review, have ability to review and participate in 13 13 14 14 but from the point of view of the review of those – of the costs and the plans 15 documentation, rationalization, 15 that are going in there and will have the 16 justification, it will have to go through 16 opportunity to influence O&M. 17 levels of approval within Nalcor and then 17 (1:00 p.m.)18 eventually coming back up to the committee 18 And a bit further to what Mr. Haynes 19 to look at and they should be, you know, 19 just mentioned, the people who are working fairly robust and obvious that they need to 20 20 on the projects and the costs that are being 21 be done for safety, reliability or future 21 reviewed under the previous committee will 22 22 costs savings because there's a capital be the same people and the same culture that investment required. he's building under the LIL and LTA that 23 23 24 24 would go in here. So, even though Hydro So, we're on the same on that there. 25 There's no argument or issue that we need -25 doesn't have the authority to approve under Page 178 Page 180 1 you know, those things need to be pretty 1 this committee, it's the same people and the 2 stand-alone justifications, if you will. 2 same processes and procedures that I expect 3 3 that they will be adopting for the assets Sorry. 4 4 they also manage. MS. WILLIAMS: 5 5 No, that's good. Actually it's a good point And that concludes, I guess, what Jim A. 6 because I think I had intended to say that I 6 and I wanted to discuss with regards to the 7 was going to speak for Power Supply, but you 7 sustainable cost management. 8 spoke for yourself, so that's great. And I 8 EATON, Q.C.: 9 mean, I know that Jim is very respectful of 9 Okay. I believe that we can finish the next O. 10 the kinds of questions that we get asked 10 one before 1:30. If we're a few minutes – I here in front of the regulator to help trust we'll have a few minutes forgiveness 11 11 justify the costs that we're receiving. I 12 12 if necessary. So, I'm just going to ask Mr. Jones now to give us a little bit of his 13 think that's the benefit of Jim having been 13 14 so recently in Hydro and moved into Power 14 background. You've been involved with NEM 15 15 Supply, as he knows what it feels like to for how long now? 16 have to have these questions asked and he's 16 MR. JONES: supportive of Hydro's desire to develop the 17 17 Since its inception in 2009. A. 18 appropriate documentation that shows we 18 EATON, Q.C.: 19 indeed did go through an appropriate review 19 And what was your background in the area O. 20 of the costs that are coming for the plant. 20 before then? 21 21 MR. JONES: On the next slide, it is a bit of a 22 different committee because it actually 22 I started with Newfoundland and Labrador Α. 23 brings the Maritime Link and Emera into the 23 Hydro upon graduation from Engineering in 24 committee. It's a six-person committee. 24 1986. So, I am what you'd call a lifer, not 25 Hydro is currently one of the six. There's 25 quite as long as Jim, but 33 years is a long

time in a corporation. I started off in the distribution and planning role with the generation planning, business development of a certification and planning role with the generation planning, business development of a certification and planning role with the generation planning, business development of the developments over the last activities. So, I've had my hands in some of the recent—or the developments over the last 30 years, so, Granite Canal approval, the wind projects. I managed the acquisition of both wind projects here in the Province and I moved in the business development role, and addressing what has become Nalcor Energy and Arketing. So, Distribution of the contract and then in 2008 when the then contract and then in 2008 when the then in the sex was used by consumers in Labrador and what was remaining was sold under term contracts to Hydro Quebec. The transcriber is having difficulty hearing you. The transcriber is having difficulty hearing y	Octob	er 9, 2019		Muskrat Falls Rate Mitigation Hearing
distribution and planning, business development activities. So, I've had my hands in some of the recent—or the developments over the last 30 years, so, Granite Canal approval, the wind projects. I managed the acquisition of both wind projects. I managed the acquisition of land addressing what has become Nalcor Energy addressing what has become Nalcor Energy you. Marketing. Mr. JONES: A. How's that? Better? Okay. And then in 2009, when we made the —or we completed the exercise to manage the recapture all title 22 bit differently, that's when I had a bit of 23 a dual role, business development and energy marketing, and then in 2015 when the i		Page 181		Page 183
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4 going back a number of years before that, 5 So, I've had my hands in some of the 6 recent – or the developments over the last 7 30 years, so, Granite Canal approval, the 8 wind projects. I managed the acquisition of 9 both wind projects here in the Province and 10 I moved in the business development role, 11 part of that was also moving onto and 12 addressing what has become Nalcor Energy 13 Marketing. 14 GREENE, Q.C.: 15 Q. Excuse me, Mr. Jones, could you speak up? 16 The transcriber is having difficulty hearing 17 you. 18 MR. JONES: 19 A. How's that? Better? Okay. And then in 20 2009, when we made the – or we completed the 21 exercise to manage the recapture a little 22 bit differently, that's when I had a bit of 23 a dual role, business development and energy 24 marketing, and then in 2015 when the 25 transition to Nalcor Energy Marketing was 2 complete, that's when my focus turned 100 2 parcent to energy marketing. 4 FATON, Q.C.: 4 Page 184 5 Q. Okay. Tell us about Nalcor Energy 5 Marketing. 5 Ox. What I'll do, I'd like to go 14 through a little bit of a review on the 15 continuation of the marketing business, so 15 basically how we came to be where we are 17 right now, give a little bit of a review on the 28 sets that we manage today and into the 29 flutre. We'll talk about also the security 20 supply and asset optimization and what we've 21 dubbed as the framework for the Hydro 22 dubbed as the framework for the Hydro 23 dubbed as the framework for the Hydro 24 marketing does on a day-to-day basis and the 26 assets that we manage today and into the 27 flutre. We'll talk about also the security 28 supply and asset optimization and what we've 29 dubbed as the framework for the Hydro 20 dubbed as the framework for the Hydro 21 flutre. We'll talk about also the security 22 supply and asset optimization and what we've 23 dubbed as the framework for the Hydro 24 marketing oldoparation. And finally to				
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	23	•		-
summarize it. 25 provide the greatest value to the	24	marketing collaboration. And finally to	24	
	1 25	summarize it.	25	provide the greatest value to the

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1	corporation and upon completing that	1	desk. So, those people would run on shift
2	assessment, we then turned our mind to	2	work managing the real-time activities. In
3	creating an implementation plan that would	3	addition to that, we have traders, analysts,
4	see us execute upon that decision.	4	computer IT folks, regulatory and compliance
5	But we did not pull the trigger on	5	manager and myself.
6	moving that way until we had sanction,	6	EATON, Q.C.:
7	project sanction in late 2012. So, when the	7	Q. Okay.
8	Muskrat Falls Project was sanctioned in	8	MR. JONES:
9	2012, we then took a step back and we went	9	A. And in addition to that, of course, there's
10	back and re-evaluated our strategic analysis	10	some other shared services with Nalcor, from
11	that we had done a couple of years earlier	11	a risk management oversight perspective and
12	to ensure that the decisions and the	12	from a contract settlement basis, paying our
13	conclusions that came out of that assessment	13	bills and receiving our incomes.
14	were still valid. We concluded that they	14	So, if we now turn our attention to the
15	were valid and then it was at that time that	15	strategic review that we completed back
16	we started the implementation plan for	16	then, but we were operating under that
17	Nalcor Energy Marketing and that	17	contract with Emera and we considered a
18	implementation took over two years to	18	number of alternatives. First was did we
19	conclude to bring us to what eventually	19	continue with Emera? Do we seek another
20	became Nalcor Energy Marketing.	20	agency type of arrangement? Is there a
21	The corporation was completed in 2014.	21	joint venture available to us? Could we
22	A big part of what had to happen in those	22	acquire a marketing company? Do we grow
23	two years was the establishment of all of	23	organically, internal growth, what has
24	the facilities, the recruitment of staff,	24	become NEM, or do we even cease marketing
25	the setting up of the appropriate work	25	and trading activities altogether and try to
25		23	
1	Page 186 processes and frameworks, risk management	1	Page 188 revert back to a border sale, for lack of a
$\begin{bmatrix} 1 \\ 2 \end{bmatrix}$	not the least of which, which I'll talk	1 2	better word, with a counterpart in maybe a
$\frac{2}{3}$	about a little bit further.	3	Hydro Quebec or somebody else.
		3 4	•
5	And then in April of 2015, we concluded the contract with Emera and Nalcor Energy	5	We engaged experts in energy marketing, financial risk management, market access in
1	e;	6	both the United States and in Canada,
6 7	Marketing basically started our full service internal corporation and that's a 24-hour-a-	7	
8	day operation. So, the lights on the fifth	8	organizational structure and tax planning to
9	• • •	9	assist in the strategic assessment. In
10	floor corner of the Hydro building do not go	10	completing the assessment, we had a number
11	out. It's 24 hours a day, 365 days a year.	11	of decision criteria obviously. These
12	EATON, Q.C.: Q. How many people would be there?	12	decision criteria included our experience
1	Q. How many people would be there? MR. JONES:		under the then current Emera marketing
13		13	contract. We wanted to make sure we had the
14		14 15	
15	EATON, Q.C.: On the state of time, but exertall within NEM		ability to maximize our portfolio of value,
16	Q. Not at a time, but overall within NEM.	16 17	the ability to expand our market access.
17	MR. JONES:		Obviously risk management efficiency is
18	A. Overall within NEM, we have 25 full-time	18	critical to any trading organization.
19	equivalents.	19	What's the ability to manage and support
20	EATON, Q.C.:	20 21	portfolio expansion into the future?
		_ /. I	Availability of key resources is obviously a
21	Q. And how are they split up within the		· · · · · · · · · · · · · · · · · · ·
21 22	organization?	22	critical consideration in developing any
21 22 23	organization? MR. JONES:	22 23	critical consideration in developing any organization, and finally cost effectiveness
21 22	organization?	22	critical consideration in developing any

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1	because on the whole, it presented the	1	Those are the roles and responsibilities
2	greatest overall strategic value to Nalcor.	2	that extend from the Board of Directors of
3	Not only that, it also offered approximately	3	the corporation right down to the traders
4	25 percent lower overhead costs as compared	4	and the analysts that are doing their day-
5	to continuing with the contracted model that	5	to-day activities.
6	we were living in at that time. And the	6	Talks about approved transaction types
7	decision to move forward, as I mentioned	7	and delegation of authority. So, when we
8	earlier, was linked to a significant	8	say approved transaction types that says
9	expansion of a portfolio and that	9	what we are allowed to do from a trading
10	significant expansion occurred with the	10	perspective, but it also says what we are
11	sanction of the Muskrat Falls Project.	11	not allowed to do. So, for example,
12	I had mentioned that risk management	12	basically the energy marketing activities
13	obviously is critical and is a key	13	are all physically backed. So, we have to
14	requirement of any trading organization is	14	have something physical behind it, whether
15	to have that comprehensive risk management	15	it's energy or transmission. We are not
16	toolset. We engaged a number of experts.	16	permitted to transact on a purely
17	KPMG was one of our key expert, subject	17	speculative basis. So, we cannot go out and
18	matter experts on risk management, was a key	18	buy energy on the spot or on spec and buy
19	contributor to the development of the risk	19	transmission on spec. We have to either own
20	manual. And the risk manual establishes	20	one or the other. So, that's just an
21	that risk management framework that's	21	example of the types of transactions that
22	inherent in them. So, any trading	22	are allowed and some that are disallowed.
23	organization has inherent risks and they	23	Of course, financial risk management is
24	have to be managed obviously. The marketing	24	key to any commodity business. So,
25	manual is founded in industry best practices	25	commodity risk, foreign exchange, credit
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1	and Nalcor's enterprise risk management	1	risk, transmission congestion risk. So,
2	framework that is overseen by Nalcor's Board	2	transmission congestion, that's basically
3	of Directors.	3	you have a four-lane highway that cuts down
4	Our day-to-day trading activities and	4	to a two-lane highway and the cars – there's
5	compliance with established risk parameters	5	a tie. So, how do we manage that congestion
6	are overseen and reported by Nalcor's	6	point, that point of congestion and ensure
7	Treasury and Risk Management Department.	7	that we still achieve appropriate value for
8	That is a daily activity. We have obviously	8	what we're delivering to the market?
9	computer IT systems, computer systems that	9	From an operational risk management
10	track our transactions and will report any	10	program, it's trading and scheduling risk,
11	violations. If a trader goes outside of	11	so the real time day-to-day activities of
12	their bounds or any activity is outside of	12	actually entering trades into the systems
13	the bounds of that risk manual, the system	13	and executing on those trades. Production
14	will identify it and on top of that, to make	14	risks, information systems risks,
15	sure that we don't just rely 100 percent on	15	confirmation and settlement, dispute
16	technology, we also have an individual that	16	resolution and human resource risk as well.
17	is dedicated 100 percent of overseeing the	17	We also have a regulatory risk
18	day-to-day trading activities to ensure	18	management program, including the compliance
19	compliance with our risk guidance.	19	framework. They talk about the electricity
20	Some of the topics that are included in	20	industry being deregulated, you know, as
21	that risk manual – so, the risk manual is	21	part of the efforts of the United States.
22	very comprehensive. It describes the	22	It's really been re-regulated and it
23	oversight framework and the structure of the	23	probably has more regulation now than it
24 25	risk manual itself. Talks about the risk	24	ever had before and it's a full-time job to
1 /3	management roles and responsibilities.	25	ensure compliance with the various

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1	regulatory obligations in the various	1	in these clearing markets, there are what we
2	markets in which we participate.	2	call day-ahead transactions and real-time
3	Portfolio Management and Expansion.	3	transactions. Day-ahead transactions. So,
4	So, how do we manage expansion? So, there's	4	early this morning, we would have committed
5	a very strict framework as to how additional	5	our supplies, our deliveries that would end
6	products and additional trade activities can	6	up in New York, for example, starting at
7	be authorized within the organization.	7	midnight tonight and running for 24 hours a
8	Performance Reporting. Obviously, we need	8	day for tomorrow. In real time, that's—it's
9	to report on our performance on a day-to-day	9	not really real time. It's actually about
10	basis, and finally, Management of Change.	10	90 minutes or 60 minutes before the hour of
11	So, as the manual—it was developed, but it	11	energy flow. The price is then set in the
12	is a living document and it goes through	12	clearing markets through what's called a
13	continuous change and it's reviewed at least	13	reverse auction where generator bids are
14	once a year.	14	cleared against load bids. And what happens
15	(1:15 p.m.)	15	there is—I'll do a very simple example.
16	So, now I'd like to get into a little	16	Let's say there's a thousand megawatts of
17	bit of a background and the assets that NEM	17	load that has to be met. The first
18	is currently managing today. And the	18	generator that clears that market is the
19	background, I'm going back to school and	19	generator that bids the lowest. So, if a
20	going to do a little Energy Marketing 101.	20	wind-producer came in at 50 megawatts for
21	So, at the core, energy is traded on a	21	zero dollars per megawatt hour, that would
22	megawatt hour or megawatts per one hours.	22	clear the market first. And then, the next
23	It's priced in dollars per megawatt hour.	23	one, and the next one, and the next higher
24	Folks might be more comfortable with cents	24	bid would go up. The last generator that
25	per kilowatt hour. Five cents a kilowatt	25	clears the market, so when generation and
-	Page 194		Page 196
1	hour is \$50 a megawatt hour. Capacity.	1	load are exactly the same, whatever price
2	Both generation and transmission capacity is	2	was bid in by that last generator, everybody
3	traded and is traded in megawatt quantities.	3	that cleared the market receives that price.
4	I've got the example here of dollars per	4	So, the wind generator that would have bid
5	megawatt month, but it could be a dollar per	5	zero dollars, if the market cleared at a gas
6	megawatt year, month, week, day, hour,	6	generator at \$50 a megawatt hour, then the
7	depends on what you're buying and selling at		wind generator actually receives \$50 per
8	the particular time. Ancillary services,	8	megawatt hour for that block of energy, that
	voltage and frequency support, operating	9	it bid into it. And while it's—while the
10	reserves, et cetera, and others in the	10	prices are actually set each hour, most of
11	electricity business, obviously renewable	11	the jurisdictions clear this market every
12	energy, certificates and greenhouse gas	12	five minutes, and what we—the hourly pricing
13	credits are becoming ever more predominant	13	that we see is the average of all the five-
14	in the industry and we are positioned to	14	minute clears that we've been—the traders
15	trade those as well. So, when we talk about	15	will call them ticks, five-minute ticks,
16	electricity markets, so those are the things	16	acronymor jargon. So, examples of these
17	that we trade in the markets. When we talk	17	clearing markets would be the New York
18	about electricity markets, there are really	18	Independent System Operator, the Independent
19	two broad types of markets. One is the	19	System Operator in New England and the
20	clearing or the spot market. So, that's—	20	Independent System Operator for Ontario. In
21	picture a trading floor in New York or on	21	addition to those clearing markets which
22	Bay Street. It's the same thing. It's	22	again are largely platform based, you have
23	mostly technology driven, a bunch of folks	23	contract markets. So, this is your classic
24	sitting behind, you know, platforms in which	24	trader. You put your two traders on either
25	trades are entered and cleared. There are-	25	end of a phoneline and they're, "I've got X
23	trades are entered and created. There are-		ond of a phonomic and mey 10, 1 ve got A

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1	to sell at Y price. Do you"—"Are you a	1	cetera, et cetera. That's what we would
2	buyer?" So, basically, the prices are	2	call the boiler plate. We have—we enter
3	determined through a mutually-agreed	3	into enabling agreements with the various
4	bilateral contract. What complicates things	4	counterparties that set out all of these
5	is you can also have bilateral contractors	5	boiler plate terms, and then when a trade is
6	in clearing markets which is quite common,	6	struck, then the trade is over a recorded
7	although not all that prevalent, but the—so,	7	phoneline or on a platform. When the trade
8	for example, in Massachusetts, for example,	8	is actually entered into the system with a
9	or ISO New England, it's a clearing market,	9	counterparty, then it's governed by that
10	but as you would have heard Power Advisory	10	enabling agreement. So, the traders that do
11	talking about earlier, Massachusetts went	11	the day-to-day trading, they enter the trade
12	out and sought a one-thousand megawatt	12	either on a platform or over the phone.
13	contract with Hydro-Quebec for a contract.	13	It's all recorded and then it all—the
14	So, those contracts clear and they're all	14	settlement of that contract rolls back into
15	cleared through the Independent System	15	these enabling agreements. So, turning next
16	Operators in New England itself. So,	16	to the electricity assets for extra-
17	examples of contract markets, pure contract	17	provincial trades. So, what is it that NEM
18	markets, would be Quebec, New Brunswick,	18	is managing on a day-to-day basis? From a
19	Nova Scotia and PEI. So, then, when we get	19	capacity energy perspective, we're managing
20	into this next slide, it's talking about	20	Hydro's surplus energy including recapture.
21	what are the markets and what is it that NEM	21	Muskrat Falls' residual energy when it comes
22	participates in? So, in Canada, we are—we	22	up in a year or so. Combined, that's about
23	have authorizations and permits to operate	23	three and a half terawatt hours of energy
24	in Newfoundland and Labrador, Quebec,	24	each year and we would have the capacity to
25	Ontario, New Brunswick and Nova Scotia. In	25	offer to the markets, but of course, that
	Page 198		Page 200
1	the United States, we have permits to	1	Page 200 subject to the outcome of Hydro's
2	the United States, we have permits to operate in New York and all six New England	2	Page 200 subject to the outcome of Hydro's Reliability and Resource Adequacy Study.
2 3	the United States, we have permits to operate in New York and all six New England states. Other significant permits that	2 3	Page 200 subject to the outcome of Hydro's Reliability and Resource Adequacy Study. Turning next to transmission. Through
2	the United States, we have permits to operate in New York and all six New England states. Other significant permits that Nalcor Energy Marketing has, we have the	2 3 4	Page 200 subject to the outcome of Hydro's Reliability and Resource Adequacy Study. Turning next to transmission. Through Quebec we manage the 265-megawatt Firm
2 3 4 5	the United States, we have permits to operate in New York and all six New England states. Other significant permits that Nalcor Energy Marketing has, we have the National Energy Board Export Permit. That's	2 3 4 5	Page 200 subject to the outcome of Hydro's Reliability and Resource Adequacy Study. Turning next to transmission. Through Quebec we manage the 265-megawatt Firm Transmission Reservation, 500 megawatts over
2 3 4 5 6	the United States, we have permits to operate in New York and all six New England states. Other significant permits that Nalcor Energy Marketing has, we have the National Energy Board Export Permit. That's a permit that allows us to export energy out	2 3 4 5 6	Page 200 subject to the outcome of Hydro's Reliability and Resource Adequacy Study. Turning next to transmission. Through Quebec we manage the 265-megawatt Firm Transmission Reservation, 500 megawatts over the Maritime Link in both directions. We
2 3 4 5 6 7	the United States, we have permits to operate in New York and all six New England states. Other significant permits that Nalcor Energy Marketing has, we have the National Energy Board Export Permit. That's a permit that allows us to export energy out of Canada into the United States. We have	2 3 4 5 6 7	Page 200 subject to the outcome of Hydro's Reliability and Resource Adequacy Study. Turning next to transmission. Through Quebec we manage the 265-megawatt Firm Transmission Reservation, 500 megawatts over the Maritime Link in both directions. We have 330 megawatts of transmission capacity
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transactions into New England if we desire to use that. We're managing Hydro's, Newfoundland and Labrador Hydro Electric areservoir capacity. That's the combined reservoir capacity of Muskrat, all of the Island assets as well as Churchill Falls, renewable attributes and greenhouse gas credits of course. And what the future brings, who knows? Maybe it's South Island. Maybe it's something different. I don't know, but we're positioned for that into the future. Incidentally, just to go back to Illustrate must be spirally that's over a year now. So, the first definition of the interim contracts that we have right now. So, this is out of the NEM NLH Interim PPA which we've been operating under for over a year now. So, the first definition there is NLH committees. Basically, that's fault statement there, "NEM and NLH agree that the operations of the NLH agree that thought best or additional growth in the marketing business and any other obligations that NLH are commitments and any other obligations that NLH are commended to the manner that ensures that NLH commitments and any other obligations that NLH are secondary principle for collaboration is resource optimization. So, in addition to secondary principle for collaboration is resource optimization. So, in addition to secondary principle for collaboration is the country. With the Gull Island development, a subject of the self-during and the design of operations is to return maximum of the self-during and the country. With the Gull Island development, a subject of the self-during and the country. With the Gull Island development, a subject of the self-during and the country. With the Gull Island development, a subject of the self-during and the country. With the Gull Island development, a subject of the self-during and the country. With the Gull Island development, a subject of the subject of the self-during and the coun	October 9,			Muskrat Falls Rate Mitigation Hearing
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24 to the connection of the Island system with 24 we'll give up value. And I'd just like to	22	how we will be working together to maximize		against each other. The only winner there
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25 the broader North American grid. And we 25 build on the third sub-bullet there. It	1	•		- · · · · · · · · · · · · · · · · · · ·
	L 25	the broader North American grid. And we	25	build on the third sub-bullet there. It

Octob	per 9, 2019		Muskrat Falls Rate Mitigation Hearing
	Page 205		Page 207
1	talks about maximizing export volumes at	1	So, when we look at this need to bring
2	times of higher prices. This unique to a	2	all of the various entities together to
3	hydro electric industry with large storage.	3	maximize value to secure our security of
4	So, we are not a—we don't have to be a	4	supply, we set up our operations for optimal
5	price-taker, unlike a wind project or a run-	5	results. And from an energy demand and
6	of-river hydro project that basically	6	supply perspective, the focus of our various
7	generates when the resource is there. Large	7	operating entities are as follows. So,
8	scale storage gives us the ability to time	8	Hydro, the Resource and Production Planning
9	the market and store energy when it makes	9	Department is a primarily focused on
10	sense to hold it back when prices are down	10	ensuring Hydro fulfills its mandate of
11	and ship it out when prices are high. And	11	reliable service consistent with least-cost
12	this next slide is re setting up. It's a	12	operations. It has to view the customer
13	bit of a setup and these next slides that	13	requirements, both short and long term,
14	talk—really talking about water management	14	respond to the demands that are place on its
15	and the collaboration and the integration of	15	assets, and is always aware of, obviously,
16	the Hydro and Nalcor assets to maximize	16	the—all aspects of its operation. Churchill
17	value. So, I think it's probably worthy of	17	Falls and Muskrat are primarily concerned
18	actually reading out these here, and these	18	with plant operations and maintenance and
19	are also from the Hydro NEM Interim PPA.	19	meeting their contractual contract
20	So, production planning is basically water	20	commitments, not the least of which, of
21	management. So, "Performance of Production	21	course, will be contractual commitments to
22	Planning. NEM shall at all times perform	22	Newfoundland and Labrador Hydro. And NEM is
23	production planning in a manner that	23	the face to extra-provincial markets and is
24	satisfies NLH's forecasted energy capacity	24	primarily concerned with managing water
25	and system requirements. Planning	25	resources and compliance with established
	Page 206		Page 208
1	Guidelines." So, "Hydro shall provide the	1	reliability criteria. So, it's the stuff we
2	technical rules that govern production	2	just talked about in these Production
3	planning to ensure that the security of	3	Planning Guidelines. And then, value
4	supply for purposes of supplying NL native	4	creation. And NEM responds to market
5	load is at all times maintained at	5	signals in both domestic and extra-
6	acceptable levels in accordance with good	6	provincial markets because you need to have
7	utility practice." So, these are the	7	a view to both to be able to maximize the
8	Production Planning Guidelines. "And they	8	value. Each of these entities have a very
9	may be revised from time to time by Hydro.	9	clear focus on driving excellence in their
10	NEM shall provide each production plan to	10	respective business. So, there's no
11	NLH upon the completion of same in a timely	11	confusion as to who is doing what. So, now
12	manner. NLH shall approve or reject such a	12	we get to water management and production
13	plan based on compliance with the Production	13	scheduling in particular. To be effective
14	and Planning Guidelines," and then tell us	14	in that role, the folks that are doing that
15	where we've erred. So, let's be perfectly	15	function must have an intimate knowledge and
16	clear as the individual accountable for	16	understanding of the factors that place
17	running the Energy Marketing business, there	17	demands on all of the production assets,
18	is no dispute, there is no lack of clarity	18	domestic load, weather, unit maintenance, et
19	in my mind as to the obligations that we	19	cetera, and an intimate knowledge and
20	have to have and we have to deliver upon.	20	understanding of all factors that are
21	First and foremost is security of supply and	21	influencing the external markets. So, wind
22	Hydro—and we'll talk about how Hydro	22	in Ontario is just as important as the price
23	actually exercises its oversight over that	23	of gas in New England and those are the
	,		
24 25	obligation in the next couple of slides. (1:30 p.m.)	24 25	factors that we weigh each and every hour when we're making our decisions as to which

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1	markets we're targeting. And operational	1	including any contract commitments to Hydro
2	integration is at the core of success in	2	Quebec or to Emera and we're not including
3	optimizing production assets. So, as asset-	3	the Labrador Industrial which are outside of
4	owners, Hydro, Churchill Falls and Muskrat	4	the regular purview. But all of the
5	Falls maintain full control and	5	generation that's available, as much as a
6	accountability over each of their assets.	6	third of that will be going to external
7	Hydro and the Newfoundland and Labrador	7	markets. It could be more in a wet year; it
8	System Operator maintains full	8	could be less in a dry year.
9	accountability for ensuring security of	9	So, that's one of the other things that
10	supply to domestic customers, and to meet	10	we have to manage when we're managing our
11	these requirements, in light of increasing	11	water. We have to manage the variability of
12	market activity due to the new	12	our inflows; that can be as much as a swing
13	interconnections that we have and increasing	13	of a terawatt hour one way or the other
14	surpluses, all of our marketing strategies	14	around our average. So, in practice,
15	are designed to ensure that asset integrity	15	Hydro's oversight of NEM's activities is
16	and security of domestic supply remain	16	largely achieved through weekly water
17	paramount in all decisions. So, NEM is	17	management meetings between Hydro and NEM.
18	charged with optimizing the operation and	18	In these meetings, production plans for the
19	maximizing the value of provincial surpluses	19	upcoming week are discussed and approved and
20	while at all times operating within the	20	operating instructions are then issued to
20 21	1 0	20 21	1 0
I	Production Planning Guidelines. And just	21 22	the system operator and to the NEM front
22	for clarity, when we say "Production		office.
23	Planning Guidelines," these are not, "Oh,	23	So, in summaryI promise this is the
24	you should do this." These are "must-	24	last slide. The decision to proceed with
25	haves." So, there's no dispute as to	25	the internal growth model which is what has
	Page 210		Page 212
1	whether we must abide by the guidelines. It	1	become NEM is founded upon a comprehensive
2	is a given. So, NEM is the group within	2	strategic and cost analysis. The internal
3	Nalcor that has a view to doto these	3	growth model offers 25 percent lower
4	discretional purchase and sales that drive	4	overhead costs compared to the contracted
5	value from extra-provincial market activity.	5	solution that we had experienced for a
6	And the reason I put "discretional" there is	6	number of years. WE have more than 10 years
7	that Newfoundland and Labrador Hydro serves	7	trading experience and following Muskrat's
8	the load of its customers when the customer	8	completion will be one of the larger
9	turns a switch on. There is no discretion;	9	Canadian exporters certainly in the top ten
10	there is no decision to be made. That load	10	percentile. We operate on a comprehensive
11	is supplied, end of story. When we're	11	risk management and oversight framework
12	marketing to customers outside the province,	12	that's modelled on industry best practices.
13	we are making decisions as to whether we're	13	And Hydro and NEM are working together
14	going to serve that load now or are going to	14	collaboratively to create maximum value from
15	wait for a better price load to serve at	15	our external market activities while always
16	some point in the future. Following the	16	ensuring security of domestic supply.
17	completion of Muskrat Falls and the	17	We operate under a framework for
18	associated transmission facilities during	18	collaboration that provides clear lines for
19	average water year, we forecast it at as	19	decision making and accountability
20	much as one third of available provincial	20	oversight. We've already returned
21	generation production will go to serve extra	21	significant values to Hydro and its
22	Provincial markets. So, that's the	22	customers and to Nalcor and to the
23	generation that is generally available to	23	discussion talking about future
24	meet customers' demands here in the	24	opportunities, NEM is the entity within
25	Province. So, in this statistic we're not	25	Nalcor that has the market knowledge to

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1	support these future initiatives. And with	1 value to rate payers to realize. Thank you
2	that, I say thank you.	2 very much.
3	EATON, Q.C.:	3 Upon conclusion at 1:39 p.m.
4	Q. I got two questions, very quickly. Number	4
5	one, what is NEM's budget, annual budget?	5
6	MR. JONES:	6
7	A. Between five and six million dollars total.	7
8	GREENE, Q.C.:	8
9	Q. What was that number?	9
10	MR. JONES:	10
11	A. Between five and six million dollars total	11
12	and that includes all chargings from all	12
13	aspects of the organization. That's the	13
14	fully loaded costs.	14
15	EATON, Q.C.:	15
1		16
16	Q. The second question is, if you were to contract out trading, how many of the	17
	<u> </u>	
18	existing NEM personnel would be needed to	18
19	manage the water, co-ordinate with the	19
20	external trader?	20
21	MR. JONES:	21
22	A. So that was a question that was put to us, I	22
23	believe in CA 233, it might have been. I	23
24	think in that scenario we would have assumed	24
25	that Hydro would not be willing to let its	25
1	D 014	
	Page 214	Page 216
1	water management activities go to an entity	-
1 2	water management activities go to an entity outside of the group of companies. So,	Page 216 CERTIFICATE
	water management activities go to an entity	CERTIFICATE
2	water management activities go to an entity outside of the group of companies. So,	CERTIFICATE I, Judy Moss, hereby certify that the foregoing is a
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