# 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 10, 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

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

# 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 (9am-11am) Cheryl Blundon, Board Secretary (11:30am-1:30pm)

# **Newfoundland Power**

Kelly Hopkins, Counsel Liam O'Brien, Counsel

Octob	er 10, 2019		Verbatim Court Reporters
	Page 1		Page 3
1	(9:03 a.m.)	1	confidentiality.
2	CHAIR:	2	MR. O'BRIEN:
3	Q. Good morning, everybody. I guess our last	3	Q. Oh, no, I accept that, I accept that.
4	order of business was to go right to you	4	MR. JONES:
5	yesterday afternoon. Right to you, Mr.	5	A. So that particular contract had a number of
6	O'Brien. Thank you.	6	elements in building up the price. One was
7	MR. O'BRIEN:	7	a price per megawatt hour move. So for
1		8	every megawatt hour that they moved on our
8	Q. Good morning.		• •
9	MS. WILLIAMS:	9	behalf, we paid them a certain price.
10	Q. Good morning.	10	MR. O'BRIEN:
11	MR. O'BRIEN:	11	Q. Okay.
12	Q. Thank you, Madam Chair. Good morning,	12	MR. JONES:
13	folks. I'm not going to be too long. I	13	A. There was a fixed retainer fee as well.
14	don't have too many questions, but I do have		That was a fixed monthly charge, and then on
15	some on each of your presentations, and I'm	15	top of that, we also had incentives built
16	going to start, actually, with you, Mr.	16	into the contract that if Emera was able to,
17	Jones, where we finished off.	17	say, beat the market is not the right word,
18	MR. JONES:	18	but to achieve greater value by directing
19	A. Okay.	19	energy, instead of going to New York and
20	MR. O'BRIEN:	20	directing it to New England, for example,
21	Q. I wonder if you could give me a little bit	21	and creating upside on the transaction over
22	more background just in terms of the Emera	22	and above what would have otherwise been
23	Trading Contract, and you had mentioned	23	achieved in New York, then there was a value
24	yesterday that there was some cost savings	24	sharing mechanism built into that contract.
25	with bringing the marketing internally. I	25	MR. O'BRIEN:
1 43		1 43	MIK. O DIVILIN.
		23	
	Page 2		Page 4
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Page 5 Page 7 what's in the analysis on a g forward basis 1 one individual that's dedicated to just 1 2 is an assessment of our experience there, 2 regulatory compliance, but it's not 3 3 recognizing the changes that we would have compliance in the context of this kind of a 4 had to make to manage that contract on a 4 forum, it's just managing our permits and 5 long term basis. As we're going through, 5 our contracts. If we go into additional 6 once we've had made the decision that the 6 oversight, there would be a cost associated 7 internal growth model was the model that we 7 with that. 8 wanted to proceed, then we would not, 8 MR. O'BRIEN: 9 obviously, staff up to just meet the Emera 9 And do you see that being prohibitive? 10 contract, we were staffing up to meet that 10 MR. JONES: internal growth model as well. 11 11 I can't say right now. A. 12 MR. O'BRIEN: 12 MR. O'BRIEN: 13 Okay. I wonder if I could take you to Slide Q. 13 Q. Okay. 14 MR. JONES: 14 7 of your presentation, if we could bring 15 that up. This is the slide where you talk 15 It would depend upon the level of regulatory Α. oversight that would be employed. 16 about risk management and you did speak 16 about that a bit yesterday. So you spoke MR. O'BRIEN: 17 17 18 about the Energy Marketing Risk Manual that 18 Q. Okay. I guess, maybe on that note, Power Advisory did confirm with their evidence 19 you have in pace, and there's some oversight 19 here, I guess, you've mentioned down in the 20 that in New Brunswick there's some level of 20 21 last bullet from Nalcor's Treasury and Risk 21 oversight in terms of the regulatory 22 Management. So it's clear, I guess, you see 22 requiring some external audit to measure that there is some need for oversight over compliance and effectiveness. Is that 23 23 24 NEM's activities, is that fair? 24 something you would see as being something 25 MR. JONES: 25 that Nalcor would be prepared to consider? Page 6 Page 8 1 A. Absolutely, but what's referenced here is 1 MR. JONES: 2 risk oversight to make sure that we stay 2 A. I can't speak for Nalcor, as a whole, but I 3 within the bounds of our permitted can speak as the marketing entity. 3 4 activities. 4 MR. O'BRIEN: 5 MR. O'BRIEN: 5 And do you think that would be prohibitive? Q. 6 Okay, and, I guess, I'm presuming from MR. JONES: Q. 6 7 Nalcor's pre-filed evidence that you do have 7 We definitely have an element of 8 concerns over extending that to oversight 8 accountability to our shareholder and to our 9 from the Board, is that fair? 9 Board of Directors. I mean, that is one 10 MR. JONES: 10 element of oversight that already exists. 11 My concern would be extending oversight 11 MR. O'BRIEN: would be to the extent that oversights are 12 12 I understand that, and I guess I'm asking to limit our ability to actually maximize about the next potential element of 13 13 14 the value of the portfolio. That's when I oversight which would be potentially Board 14 15 oversight. If you had some element of would see a tipping point. Exactly where 15 16 that point is, we'll know when we're there, 16 oversight in terms of an external audit to but to sit here in advance it's kind of measure compliance with your Risk Manual and 17 17 18 tough to make that assessment. 18 compliance with the effectiveness of 19 MR. O'BRIEN: 19 managing risk, is that something you would 20 Okay, and Power Advisory, it mentioned one 20 see as overly prohibitive? of the areas of concern would be the cost of 21 MR. JONES: 21 22 regulation. Is that an area of concern for 22 On the surface it doesn't sound like it's Α. you? 23 23 overly prohibitive, but again the level of 24 MR. JONES: 24 oversight and the level of involvement of

25

Well, we have 25 FTE's right now. We have

25

that external third party obviously would

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1	depend on the -	1	overt there.
2	MR. O'BRIEN:	2	MR. O'BRIEN:
3	Q. So it would depend on the degree, I guess?	3	Q. So what's your understanding that was done
4	MR. JONES:	4	when you say an audit of the manual by the
5	A. The degree of oversight, yes. I believe Mr.	5	Board versus an approval?
1			**
6	Dalton yesterday had indicated that the	6	MR. JONES:
7	ability to oversee each and every	7	A. I can't really speak to the details of it.
8	transaction from a prudence perspective, I	8	I would surmise that the Board had the
9	mean, we do it from a risk management	9	opportunity to view the manual.
10	perspective every day and every transaction	10	MR. O'BRIEN:
11	is overseen. If we're going to get into	11	Q. Okay. Your operating costs, you mentioned
12	second guessing, call it the Monday morning	12	those yesterday. They're largely personnel
13	quarterback type of analogy, to get into	13	costs, I take it, are they?
14	that kind of oversight, that's essentially	14	MR. JONES:
15	duplicating the entire operation.	15	A. Mostly personnel. Of the 5 to 6 million
16	MR. O'BRIEN:	16	dollars, about 3.5 is personnel costs.
17	Q. Okay. Do you see any value in having the	17	System costs are another big portion of it
18	Board look at or approve, say, your Energy	18	as well.
19	Marketing Risk Manual in advance versus sort	19	MR. O'BRIEN:
20	of second guessing? That sort of sets out	20	Q. And those costs, those are costs that are
21	the framework for your trades and that kind	21	built into rates for customers, is that
22	of thing, is it?	22	fair?
23	MR. JONES:	23	MR. JONES:
1		24	
24	A. That sets out our permitted range of		A. Not at this time they are not.
25	operation.	25	MR. O'BRIEN:
	Page 10		Page 12
1	MR. O'BRIEN:	1	Q. And I should rephrase the question. I mean,
2	Q. Yeah, yeah. Would there be a role or	2	upon commissioning, they would be built into
3	potential role for the Board in that	3	rate costs, would they?
4	fashion?	4	MR. JONES:
5	MR. JONES:	5	A. Not under the current model. At this
6	A. I'm sure there would be a potential role.	6	particular time there is no set in stone
7	MR. O'BRIEN:	7	accounting for or method for how those costs
8	Q. Because it's not sort of second guessing,	8	will be recovered, whether it's from Power
9	looking backwards to see, it's sort of	9	Supply or from Hydro, or if it's a shared
10	upfront, is that a possibility, or do you	10	service.
11	think that would be prohibitive?	11	MR. O'BRIEN:
12	MR. JONES:	12	Q. And is there – are you looking into that, or
13	A. Again everything is a possibility,	13	is there proposals in that fashion as to
14	absolutely.	14	where Nalcor –
15	MR. O'BRIEN:	15	MR. JONES:
16	Q. Okay.	16	A. I believe Newfoundland and Labrador Hydro
17	MR. JONES:	17	has, and Jennifer can correct me if I'm
I T/	IVIIX. JUINLO.		
	A The only caveat I would say is that I'm not	1 2	wrong hijf Newtoundland Hydro has indicated
18	A. The only caveat I would say is that I'm not familiar with marketing entities across	18 10	wrong, but Newfoundland Hydro has indicated
18 19	familiar with marketing entities across	19	to the Board that we will be bringing
18 19 20	familiar with marketing entities across Canada that have that level of regulation.	19 20	to the Board that we will be bringing forward a long term marketing and
18 19 20 21	familiar with marketing entities across Canada that have that level of regulation. My understanding with New Brunswick Power,	19 20 21	to the Board that we will be bringing forward a long term marketing and optimization type of arrangement that would
18 19 20 21 22	familiar with marketing entities across Canada that have that level of regulation. My understanding with New Brunswick Power, there was an audit done of their marketing	19 20 21 22	to the Board that we will be bringing forward a long term marketing and optimization type of arrangement that would be certainly discussed here before the
18 19 20 21 22 23	familiar with marketing entities across Canada that have that level of regulation. My understanding with New Brunswick Power, there was an audit done of their marketing manual, but I don't think it was explicitly	19 20 21 22 23	to the Board that we will be bringing forward a long term marketing and optimization type of arrangement that would be certainly discussed here before the Board.
18 19 20 21 22	familiar with marketing entities across Canada that have that level of regulation. My understanding with New Brunswick Power, there was an audit done of their marketing	19 20 21 22	to the Board that we will be bringing forward a long term marketing and optimization type of arrangement that would be certainly discussed here before the

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1	MS. WILLIAMS:	1	MR. JONES:
2	A. That's correct.	2	A. Correct, it's expected.
3	MR. O'BRIEN:	3	MR. O'BRIEN:
4	Q. Okay, thank you. If we could move to Slide	4	Q. It's expected.
5	10, your Energy Marketing 101. That was	5	MR. JONES:
6	helpful for me, I must say. I did have a	6	A. But not forecasted.
7	question in terms of capacity trading in	7	MR. O'BRIEN:
8	transmission, and you've indicated it's	8	Q. Okay, and in terms of what's expected on a
9	traded in megawatt quantities or dollars per	9	ball park dollar figure, are you able to
10	megawatt per month, or I guess it can vary,	10	give us any idea? Is that too difficult to
11	is that fair?	11	do?
12	MR. JONES:	12	MR. JONES:
13	A. Yes, definitely.	13	A. That's pretty difficult to do, yes, in
14	MR. O'BRIEN:	14	particular with the Phase 1 and Phase 2
15	Q. Is there a dollar value to that or	15	rights, which is a merchant transmission
16	opportunity there for Nalcor that's already	16	line that runs from Quebec into New England
17	built into Synapse's calculations, do you	17	on which we've been quite successful getting
18	know? I'm looking sort of from a rate	18	blocks of transmission. When I say blocks
19	mitigation perspective. Is there a dollar	19	of transmission, that might be 3 megawatts
20	value that can benefit us here that we	20	for six months, it might be 12 megawatts for
21	haven't looked at?	21	a year, it might be a combination of firm
22	(9:15 a.m.)	22	and non-firm, but these are blocks of
23	MR. JONES:	23	transmission that owners of those
24	A. I would say yes. What we've done, and	24	transmission rights have put up in some
25	certainly in the information that we have	25	cases for auction. In some cases, a
	Page 14		Page 16
1	provided Synapse, we used clearing markets	1	negotiated price, and there are some changes
2	and markets to which we have long term firm	2	happening, those Phase 1 and Phase 2 rights
3	transmission rights. So we have access to	3	are being renewed within, I think, 18 months
4	those markets.	4	time, and there's some uncertainty with the
5	MR. O'BRIEN:	5	owners as to how they're going to proceed.
6	Q. Yeah.	6	So to put a pen in what it's worth is really
7	MR. JONES:	7	quite tough.
8	A. We regularly go out and seek blocks of	8	MR. O'BRIEN:
9	incremental transmission, particularly into	9	Q. Yeah, it's difficult to do that, yeah. I
10	New England because the New England market		guess, in terms of where that leaves us for
11	is the premium market in the North East, and	11	the future to the extent it might be
12	we've been quite successful on occasion	12	available, and to the extent that some of
13	purchasing blocks of transmission that have	13	the value there could be used to mitigate
14	been quite profitable for us, so creating	14	rates, that's there?
15	additional upside, but in our forecasting we	15	MR. JONES:
16	do not assume that that will be the case	16	A. Absolutely.
17	going forward long term. It will be	17	MR. O'BRIEN:
1	realized when it's made available because it	18	
18 19		19	Q. Okay. Slide 11, you mentioned contract markets. Is that generally for firm energy?
20	is dependent upon market conditions at the time.	20	MR. JONES:
20 21	MR. O'BRIEN:	20	A. Both firm and non-firm.
22		22	MR. O'BRIEN:
23	Q. And I'm paraphrasing here now, it's not certain enough for you to say we'd put it	23	Q. All right, and does NEM trade in that
24	into a forecast, but it would be realized if	24	fashion right now for both?
. / +		. /+	1030000 1200 NOV 101 DONE
25	it came along. Is that fair?	25	MR. JONES:

1 2			Verbatim Court Reporters
2	Page 17		Page 19
	A. Yes.	1	well?
	MR. O'BRIEN:	2	MR. JONES:
3	Q. And is that something that Power Advisory	3	A. Absolutely, yes.
4	talked about some concerns about Board	4	MR. O'BRIEN:
5	regulation over really a fast paced	5	Q. And when you look at Slide 19, you talk
6	environment and you being required to be	6	about reliability trumping, I guess,
7	nimble, that kind of thing, is that	7	trumping all at that point. I want to get a
8	something that the same principle would	8	better flavour kind of, of the discussions
9	apply here?	9	that occur between Hydro and NEM with
10	MR. JONES:	10	respect to production planning and
11	A. Absolutely.	11	performance upfront, and as well kind of the
12	MR. O'BRIEN:	12	oversight that you look at after the fact.
13		13	• •
	Q. Absolutely, okay. Slide 13, you talk about		Can you expand on that a little bit more
14	capacity subject to your reliability and	14	just to show how reliability would trump?
15	resource adequacy study that's ongoing, I	15	MR. JONES:
16	guess, right now. What impact could that	16	A. So what we would do, every week our
17	have on the dollar amount available from	17	management production scheduling group would
18	export sales for mitigation purposes?	18	prepare a plan for the following week, for
19	MR. JONES:	19	the next seven days. We would sit with
20	A. Well, depending on the outcome of that	20	Newfoundland and Labrador Hydro, and between
21	study, for example, if there is more	21	Hydro and NEM, we would discuss the
22	capacity installed here on the island for	22	availability of units, and NEM also sits in
23	long term backup of the LIL, for example,	23	on daily calls with the plant operators to
24	which is being discussed, there are	24	talk about the availability of the units
25	scenarios in which you could offer, for	25	because that obviously drives the capability
	Page 18		Page 20
1	example, a transmission contingent firm	1	of the system. We would discuss how the
2	product. So as long as the LIL is in	2	impact of a proposed production plan for the
3	service, then potentially there's the	3	following week will impact resources, and
4	opportunity to sell capacity, which is no	4	how it may or may not impact reliability.
5	different than the Nova Scotia block.	5	Sometimes if there's sufficient reserves in
I	MR. O'BRIEN:	6	
l 6	Mic. O DidEit.		
6 7	O Okav		the system, the impact on reliability is
7	Q. Okay. GREENE O.C.	7	the system, the impact on reliability is negligible. We would also look at how the
7 8	GREENE, Q.C.:	7 8	the system, the impact on reliability is negligible. We would also look at how the water would be managed to ensure that the
7 8 9	GREENE, Q.C.: Q. Excuse me again, Mr. Jones, you need to	7 8 9	the system, the impact on reliability is negligible. We would also look at how the water would be managed to ensure that the water resources are available to meet the
7 8 9 10	GREENE, Q.C.: Q. Excuse me again, Mr. Jones, you need to speak up. Some people are having difficulty	7 8 9 10	the system, the impact on reliability is negligible. We would also look at how the water would be managed to ensure that the water resources are available to meet the generation schedules as are identified.
7 8 9 10 11	GREENE, Q.C.: Q. Excuse me again, Mr. Jones, you need to speak up. Some people are having difficulty hearing you.	7 8 9 10 11	the system, the impact on reliability is negligible. We would also look at how the water would be managed to ensure that the water resources are available to meet the generation schedules as are identified. Then on top of that, we would look at
7 8 9 10 11 12	GREENE, Q.C.:  Q. Excuse me again, Mr. Jones, you need to speak up. Some people are having difficulty hearing you.  MR. JONES:	7 8 9 10 11 12	the system, the impact on reliability is negligible. We would also look at how the water would be managed to ensure that the water resources are available to meet the generation schedules as are identified. Then on top of that, we would look at capacity requirements as well, maintain
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	per 10, 2019		Verbatim Court Reporters
	Page 21		Page 23
1	MR. JONES:	1	reorg, and it gave me some additional
2	A. Well, Hydro provides the criteria under	2	information that was helpful. So you were
3	which we operate. NEM operates or creates	3	front and foremost for that reorg at that
4	plans for the market in light of those	4	time by the sounds of it, and you indicated
5	criteria, puts forward an overall dispatch	5	that rate mitigation was a focus of reorg at
6	plan which includes both native load and	6	that time. Is that fair?
7	external market activities, and then Hydro	7	MR. ROBERTS:
8	reviews that with us and then we basically	8	A. That's absolutely correct, yes.
9	approve the plan.	9	MR. O'BRIEN:
10	MR. O'BRIEN:	10	Q. Okay, so I wanted to draw your attention
11	Q. Okay, and those weekly meetings, do you look	11	just as we speak here to the second and
12	at what happened the week before or is that	12	third bullets about how you ensure
1		13	
13	the kind of oversight the week before?		efficiencies and cost optimization, but more
14	MR. JONES:	14	along the lines of avoiding duplications,
15	A. Absolutely. Every meeting there's a	15	and you talked about Power Supply yesterday
16	discussion of what happened last week,	16	as well, and that Power Supply was developed
17	what's the plan for this week, and what's	17	around that time as well, and there was a
18	the three year outlook.	18	thought process behind avoiding duplication
19	MR. O'BRIEN:	19	there, but also transitioning to the future.
20	Q. And what if anything are the consequences or	20	So you were looking at how we would
21	outcomes if for some reason NEM operates	21	transition out of, I guess, once
22	outside of the direction or plan of Hydro,	22	commissioning occurred, and walk me through
23	how does that work?	23	how you set up that structure to avoid
24	MR. JONES:	24	duplication?
25	A. NEM does not operate the facilities. Hydro	25	MR. ROBERTS:
	Page 22		Page 24
1	operates the facility.	1	A. I'm happy to do that. So the first thing
2	MR. O'BRIEN:	2	that led to the restructuring, of course,
3	Q. And in terms of purchasing and that sort of		
	O. And in terms of purchasing and that soft of	3	
		3 4	was Mr. Marshall's decision to bifurcate the
4	thing, if NEM operates outside of	4	was Mr. Marshall's decision to bifurcate the project, and recognizing that we needed
5	thing, if NEM operates outside of instruction from Hydro, what are the	4 5	was Mr. Marshall's decision to bifurcate the project, and recognizing that we needed oversight on the Muskrat Falls construction
5 6	thing, if NEM operates outside of instruction from Hydro, what are the consequences of that?	4	was Mr. Marshall's decision to bifurcate the project, and recognizing that we needed oversight on the Muskrat Falls construction component, as well as the transmission
4 5 6 7	thing, if NEM operates outside of instruction from Hydro, what are the consequences of that?  MR. JONES:	4 5 6 7	was Mr. Marshall's decision to bifurcate the project, and recognizing that we needed oversight on the Muskrat Falls construction component, as well as the transmission component. Because the transmission
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	Page 25		Page 27
1	and the Hydro team sat together	1	MR. ROBERTS:
2	cooperatively and worked out how to take the	2	A. As opposed to creating duplication.
3	existing people that we had, and determine	3	MR. O'BRIEN:
4	which folks would go into Newfoundland and	4	Q. Okay.
5	Labrador Hydro and support the hydro	5	MR. ROBERTS:
6	operation, and which ones would stay inside	6	A. We fully acknowledge that there's roles in
7	of Nalcor and support all the Nalcor lines	7	Power Supply and roles in Hydro that would
8	of business, including Power Supply. So to	8	have the same job title and similar mandates
9	give you an example, and these are not the	9	for different businesses.
10	exact numbers, but if we had ten people in	10	MR. O'BRIEN:
11	Human Resources, five might have gone into	11	Q. Yeah.
12	Hydro and five would have stayed in Nalcor.	12	MR. ROBERTS:
13	We might have through that process obviously	13	A. But again, those are not what I would
14	given people some different roles and	14	consider duplication. I mean, as Mr.
15	responsibilities, and maybe a better example	15	Marshall said, I mean, the only way to avoid
16	of that is on the environmental side. So we	16	having similar roles in different
17	had a corporate team and it served all lines	17	organizations is just to have one, and lots
18	of business that had specialty areas which	18	of organizations structure with multiple
19	they oversaw, and when we decided to move	19	lines of business.
20	some people into Hydro to make it more	20	So, I think where we were focused was
21	autonomous and keep some in Nalcor, as we	21	if we did bring Power Supply in – and I
22	did that split and put some over here and	22	don't know, to be truthful, if reintegration
23	some over here without adding anybody, some	23	is the right characterization because it was
24	of them had to become more generalist and	24	never really in there. Some of the
25	cover more topic areas as opposed to	25	corporate services might have been part of
25		23	<u> </u>
1	Page 26	1	Page 28
1 2	specialists. MR. O'BRIEN:	1	it, but you know, CF(L)Co. wasn't in there
2		2	and that's a large part of Power Supply, and
3	Q. Okay. MR. JONES:	3	now we are staffing up the new assets. So,
4		4	they were never really – or they were never
5	A. And that's sort of how we approached it. MR. O'BRIEN:	5	in Hydro. But where we focused with Liberty
6		6	was, okay, well, if we did and if we took
/ 0	Q. All right, and you've seen – I take it	/	the engineering operations, for example, of
8	you've reviewed Liberty's evidence and	8	Power Supply and the engineering operations
9	Liberty suggested, I guess, after	9 10	for Hydro and brought them together, could
10	commissioning that there might be a	1 10	
1 1 1	•		we create some synergy? And the answer to
11	potential for moving Power Supply and, I	11	that, I believe, would be yes.
12	potential for moving Power Supply and, I guess, they've termed it reintegrating Power	11 12	that, I believe, would be yes. MR. O'BRIEN:
12 13	potential for moving Power Supply and, I guess, they've termed it reintegrating Power Supply into Hydro, but they've also	11 12 13	that, I believe, would be yes. MR. O'BRIEN: Q. Okay.
12 13 14	potential for moving Power Supply and, I guess, they've termed it reintegrating Power Supply into Hydro, but they've also indicated that they see some duplication	11 12 13 14	that, I believe, would be yes. MR. O'BRIEN: Q. Okay. MR. ROBERTS:
12 13 14 15	potential for moving Power Supply and, I guess, they've termed it reintegrating Power Supply into Hydro, but they've also indicated that they see some duplication there. Have you looked into the details of	11 12 13 14 15	that, I believe, would be yes.  MR. O'BRIEN: Q. Okay.  MR. ROBERTS: A. I think where we differ is on the amount of
12 13 14 15 16	potential for moving Power Supply and, I guess, they've termed it reintegrating Power Supply into Hydro, but they've also indicated that they see some duplication there. Have you looked into the details of that duplication to see whether or not it	11 12 13 14 15 16	that, I believe, would be yes.  MR. O'BRIEN: Q. Okay.  MR. ROBERTS: A. I think where we differ is on the amount of synergy. The Liberty numbers, I believe –
12 13 14 15 16 17	potential for moving Power Supply and, I guess, they've termed it reintegrating Power Supply into Hydro, but they've also indicated that they see some duplication there. Have you looked into the details of that duplication to see whether or not it even exists? Is there a level of	11 12 13 14 15 16 17	that, I believe, would be yes.  MR. O'BRIEN: Q. Okay.  MR. ROBERTS: A. I think where we differ is on the amount of synergy. The Liberty numbers, I believe – I'm going by memory, suggest -
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12 13 14 15 16 17 18 19 20 21 22	potential for moving Power Supply and, I guess, they've termed it reintegrating Power Supply into Hydro, but they've also indicated that they see some duplication there. Have you looked into the details of that duplication to see whether or not it even exists? Is there a level of duplication there?  MR. ROBERTS:  A. Yes. So, I mean, we worked very closely with Mr. Antonuk and his team through that process and I think there's a difference in	11 12 13 14 15 16 17 18 19 20 21 22	that, I believe, would be yes.  MR. O'BRIEN: Q. Okay.  MR. ROBERTS: A. I think where we differ is on the amount of synergy. The Liberty numbers, I believe – I'm going by memory, suggest -  MR. O'BRIEN: Q. 113, I think, FTEs was what they had used.  MR. ROBERTS: A. Yeah, so -  MR. O'BRIEN:

Page 29 Page 31 A. Right. So, just to stick with the 1 of these natural resource developments, we 1 2 engineering example, if my memory serves me 2 want to have the capacity inside of Power correctly, I believe they identified the Development to take that on. 3 3 4 possibility of eliminating 24 engineering 4 MR. O'BRIEN: 5 5 positions by doing that. And so, in terms of where you land with Q. 6 MR. O'BRIEN: 6 respect to Liberty's analysis, I guess there's a couple of differences. One is the 7 7 O. Yeah. 8 MR. ROBERTS: 8 numbers that you see, but the other, I 9 guess, and both you and Mr. Marshall 9 When our Engineering VPs got together and 10 their management teams and they looked at 10 indicate, is the timing of any sort of a that and gave it a hard thought and, of restructuring is an issue for you guys. Is 11 11 12 course, that's what we're challenged to do 12 that fair? 13 here now and that's the benefit of all this, 13 MR. ROBERTS: 14 to say okay, is there a more optimal way of 14 A. Yeah, I think that's fair. I mean, again, doing this. Their numbers that they came up 15 15 I'm not wanting to be disparaging of the with were more in the three to five ranges, work that Liberty did. I think they did 16 16 as opposed to 24. good work in the limited time that they had 17 17 18 (9:30 a.m.) 18 to do it, and it was difficult because, you 19 know, trying to provide them data and org 19 And so, you know, you stop and think and say, well, every position counts. So, charts and in an operation that's continuing 20 20 why wouldn't you pursue that? And I think 21 21 to evolve and change. You know, they would 22 we've laid a lot of the groundwork in terms 22 request org charts and three weeks later. of why we wouldn't. Because there are they might have been out of date. They were 23 23 24 offsetting costs, even in that scenario, in 24 looking at certain vacancies that by the 25 terms of – once again – and they're hard to 25 time they wrote the report, they were no Page 30 Page 32 1 measure, I'll be clear about that. But in 1 longer vacant, but others might have been. 2 terms of having a dedicated engineering team 2 So, it was a challenge that way. 3 focused on the line of business that it 3 But certainly, yes, I think that 4 serves and the asset base that it serves. 4 because of our history and because of where 5 5 So, in particular, if you think about we've been over the last number of years and 6 it in terms of Newfoundland and Labrador 6 our concern being around reliability, we 7 Hydro -- and I'm going to speak a little bit 7 just want to be cautious. I think that's a 8 on behalf of Ms. Williams and Mr. Haynes, so 8 utility culture to be cautious around 9 they can jump in. 9 ensuring that we can properly integrate 10 MR. O'BRIEN: 10 these assets. And once we're certain of that, we will start to see that decline. 11 Sure. 11 MR. ROBERTS: 12 And so the path that I presented 12 yesterday is the current projection. You But I know if I were leading either of those 13 13 entities, you know, with sustaining capital 14 14 know, if GE delivers, for example, and six 15 in the tens of millions, I would want to 15 months in we're feeling very secure about 16 make sure that my team were focused on my 16 the supply of power, we'll advance that. assets and that there was never a fleeting But, if -17 17 18 thought as to where they're focused. So 18 MR. O'BRIEN: 19 that would be part of it, in terms of 19 O. Well, let's look at that path, I guess. 20 offsetting the cost of that and what we're 20 MR. ROBERTS: 21 looking at in terms of going forward and how 21 A. Sure. MR. O'BRIEN: 22 we grow inside of the Power Supply, as we've 22 23 said. We want to make sure that we're 23 Q. I think it's slide 10, is it? I'm just 24 structuring our organization to be flexible 24 looking at the trends, and I had some and if we think that we will advance on some 25 25 questions on that. So, in that, is that

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1	A. Out of the numbers, yeah.	1	is to get back towards that 1463 number.
2	MR. O'BRIEN:	2	MR. O'BRIEN:
3	Q. Okay. So that's where we see the big	3	Q. 1463, yeah, okay.
4	difference in the – I mean, it's over half	4	MR. ROBERTS:
5	of what you're looking at here. Is that	5	A. So, I think we have a good plan. It has to
6	fair?	6	stay flexible, but we have a good plan to
7	MR. ROBERTS:	7	get to the number of 1492 and I'm confident
8	A. Yeah, that's about right. It's about half,	8	that between us up here that we can find a
9	yeah.	9	plan inside the organization to find the
10	MR. O'BRIEN:	10	additional efficiencies.
11	Q. Yeah, okay. And are any of those figures or	11	MR. O'BRIEN:
12	any of those FTEs similar to the ones that	12	Q. And you're working on that now, are you?
13	Liberty has identified that could be reduced	13	MR. ROBERTS:
14	with Power Supply? Are any of those kind of		A. Every day.
15	similar or overlaps would you figure?	15	MR. O'BRIEN:
16	MR. ROBERTS:	16	Q. If I could turn to the Sustainable Cost
17	A. It's been difficult to do an apples to	17	Management presentation, Mr. Haynes and Ms.
18	apples comparison.	18	Williams. I only have a few questions for
19	MR. O'BRIEN:	19	you both. The Power Supply side of things,
20	Q. Can you parse that out?	20	Mr. Haynes, just for you, you had indicated
21	MR. ROBERTS:	21	there's a lot of collaboration over the
22	A. But I will say there's definitely some	22	years between Power Supply and Hydro, I
23	overlap there, for certain.	23	think? Is that fair?
24	MR. O'BRIEN:	24	MR. HAYNES:
25	Q. Okay.	25	A. Right.
==	Page 38		Page 40
1	MR. ROBERTS:	1	MR. O'BRIEN:
2	A. But for different reasons, I think. You	2	Q. That's a constant thing by the sounds of it.
$\frac{2}{3}$	know, they've identified some synergies in	3	MR. HAYNES:
4	their minds in terms of the integration, but	4	A. There's quite a bit and I will add, when I
5	they've also identified, I think, some of	5	was in Hydro, I was encouraging a lot more
6	these roles that would be transitional that	6	collaboration between Engineering, so we
7	they could see going, and of course, we	7	share experiences, you know, and things like
8	agree.	8	that there and I continue to do that in
9	MR. O'BRIEN:	9	Power Supply role.
10	Q. Yeah, okay. And apart from the Holyrood	10	MR. O'BRIEN:
11	figures, are you on target for the other	11	Q. Yeah.
12	ones, in terms of you see that as being	12	MR. HAYNES:
13	realistic? So, Holyrood you got 90 and I	13	A. There's a lot of dialog between the
14	think the figure – was the figure of 160	14	Engineering folks and the Operating folks to
15	range that you said yesterday. So, do you	15	make sure that we're all aligned and, you
16	think you're on the target for the remainder	16	know, that we're likeminded people, if you
17	by 2022?	17	will.
18	MR. ROBERTS:	18	MR. O'BRIEN:
19	A. So, we have a good plan to get the 162 that	19	Q. Yeah.
20	are identified in this chart and what we're	20	MR. HAYNES:
21	tasked with as a team up here, the people	21	A. I would emphasize too though that going back
22	that are at this table, is to try to find	22	to the organizational structure, even in
23	another 30-ish to get us back. Because our	23	conversation with Liberty as well, is that
24	commitment and our goal, as we've expressed		when we were looking at that there, you
		25	know, Hydro has a large river system,
25	to the shareholder over the last few years,	1/5	

Page 43 running the river plants in Bay d'Espoir, operating and that stuff. 1 1 2 and there's a lot of coordination back and 2 MR. O'BRIEN: 3 forth there. 3 And I'm not suggesting there is, in terms of Q. 4 4 a conflict. When you go to Labrador, it's pretty 5 hard to separate Churchill Falls plant, 5 MR. HAYNES: 6 which is unregulated clearly, from Muskrat 6 Yeah. Α. 7 Falls. So, it's an integrated system and I 7 MR. O'BRIEN: 8 think there's a lot of value in maintaining 8 And I guess where I'm going is that there's 9 kind of – from what I gather, there's that as a whole from that point of view of 9 10 10 oversight, along with the capital program collaboration amongst Hydro and Power Supply which is growing. But there is a lot of and even within Power Supply I imagine 11 11 12 collaboration back and forth. 12 there's collaboration between people who are 13 13 looking at the operations versus people MR. O'BRIEN: 14 O. There's a lot, yeah. 14 looking at future development. 15 MR. HAYNES: 15 MR. HAYNES: And we don't want to – as I said in the 16 Α. 16 Α. Yes. MR. O'BRIEN: 17 presentation there, we don't want to create 17 And I'm not suggesting that – I guess what 18 a drafting department. We're not going to 18 I'm suggesting is that that collaboration 19 go out and create a cyber security group. 19 We're going to piggyback on things that are can still exist with the separation. My 20 20 21 already there and can accommodate that. 21 bigger concern is more if there are costs 22 22 that should be associated with them and rate Maybe it requires a part of an FTE or an FTE, but as opposed to going out and billing payers should be covering with existing 23 23 24 that, that's not warranted, but we do think 24 assets, should they also be covering costs 25 that from an operations and engineering 25 of-Page 42 Page 44 1 perspective that it is, because there's lot 1 MR. HAYNES: 2 of work there to be done. 2 A. There will not be any costs that the rate 3 3 payer – there will be no costs borne by the MR. O'BRIEN: 4 4 LIL, the LTA and Muskrat Falls. That would Q. And from a, I guess, a cost perspective and 5 5 a focus perspective of Power Supply going be associated with new development. If we – 6 forward, is it fair to say a certain aspect 6 I mean, everybody does jobs off the end of 7 their table, so to speak, but once it starts of Power Supply would be focused upon 7 8 development in the future for the Province 8 to get a bit of legs and a bit of momentum, 9 and a certain aspect will be focused on sort 9 then basically, you know, we would set up 10 of operations, existing operations now? 10 work orders that would ensure -MR. HAYNES: 11 MR. O'BRIEN: 11 That's correct. 12 12 O. Okay. MR. O'BRIEN: MR. HAYNES: 13 13 14 Is there – and I know you've – and I'm 14 Α. - that that cost would be excluded. If we O. assuming you've thought through this, but is 15 15 go back tomorrow, for instance, and ask the there a benefit to separating those two? 16 16 transmission planning group, for instance, I'm just speculating -17 MR. HAYNES: 17 18 I don't think so. I think you're – I think 18 MR. O'BRIEN: A. having the people who operate that river 19 19 O. Yeah. 20 system with respect to understanding how all 20 MR. HAYNES: 21 that works, there's a lot of – because 21 - that if you look at – we're looking at A. 22 that's primarily our goal. There are other 22 bringing in a particular facility and it 23 things too, I'm sure. But there are a lot 23 needed to have some work done on what is the 24 of advantages to having all that stuff 24 best way to connect that up, you know,

25

what's the right size -

contained. I don't see a conflict between

25

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1	MR. O'BRIEN:	1	various stakeholders and it's better for the
2	Q. Right, okay.	2	Finance panel to speak to that.
3	MR. HAYNES:	3	MR. O'BRIEN:
4	A transmission voltage. There'll be a work	4	Q. Yeah.
5	order set up and that will not fall to LIL,	5	MR. HAYNES:
6	LTA or Hydro. That'll be a Nalcor cost.	6	A. If all those impediments that are there now
7	MR. O'BRIEN:	7	from a legislative point of view or any
8	Q. And will it be easier to do that if you have	8	covenants out there with respect to Federal
9	separate entities versus setup work orders?	9	Loan Guarantee or bond rating -
10	MR. HAYNES:	10	MR. O'BRIEN:
11	A. I don't think so, because we would – you	11	Q. Yeah.
12	know, we would not go out and set up a	12	MR. HAYNES:
13	transmission planning group. We would use	13	A you know, if that's holistically done and
14	the competent transmission planning group	14	it becomes regulated, yes, we'll have to go
15	that Hydro already, under the - well, under	15	back and reconsider the structure and things
16	Hydro, that they already have. To go out	16	like that.
17	and set up would – you know, we would drive	17	MR. O'BRIEN:
18	costs up in licenses for software and it is	18	Q. Well, it wouldn't be – it wouldn't be overly
19	a unique skillset that you just don't hire	19	taxing for you to reconsider that structure,
20	off the street very easily. Like the value	20	I guess, would it be?
21	is actually using those resources and	21	MR. HAYNES:
22	setting up work orders to transfer that cost	22	A. If those things change and they're
23	out so that they're tracked appropriately,	23	regulated-
24	which is basically overseen by the Public	24	MR. O'BRIEN:
25	Utilities Board, from the point of view if	25	Q. Yeah, you could do that?
	Page 46		Page 48
1	we're using Hydro stuff on the intercompany	1	MR. HAYNES:
2	transactions and audited by Grant Thornton,	2	A. If they become regulated, if that is the
3	I believe, and so on. So, there's a lot of	3	result at the end of the day -
4	diligence there for that there.	4	MR. O'BRIEN:
5	MR. O'BRIEN:	5	Q. Yeah.
6	Q. And if you could provide – if there was a	6	MR. HAYNES:
7	change in legislation and you could see some	7	A then obviously we need to go back and
8	of the operations side of things become	8	reconsider how we're doing things. But I
9	regulated for those Muskrat Falls assets,	9	would also suggest that I'm not quite sure
10	would there be a benefit then for them	10	that means that Power Supply would disappear
11	coming into Hydro for regulation for rate	11	because you still have Churchill Falls
12	payers?	12	assets, which are significant -
13	MR. HAYNES:	13	MR. O'BRIEN:
14	A. I'm sorry, repeat the question.	14	Q. Fair.
15	MR. O'BRIEN:	15	MR. HAYNES:
16	Q. Would there be a benefit for rate payers for	16	A and have a roughly 65 – 60 to 65 million
17	regulation of those assets going forward	17	dollars in capital program for the
18	from looking at O&M costs and capital? I	18	foreseeable future. We still operate
19	know there's legislative barriers there that	19	Menihek, which basically is looking at in
20	we might have to get past, but would there	20	the order of – which is fully funded by
1 -	be a benefit?	21	Hydro Quebec, but nevertheless managed by
21			
	MR. HAYNES:	22	Power Supply from a construction point of
21 22 23	MR. HAYNES: A. If all those particular barriers to making	23	view and oversight point of view. You know,
21 22	MR. HAYNES:		11.7

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1	perspective.	1	of LIL of the DC side as well, even on the
2	MR. O'BRIEN:	2	synchronized condenser side. So, there's
3	Q. And would those be still covered in rates?	3	some experience that we need to get under
4	MR. HAYNES:	4	our belt with respect to that, but we are –
5	A. Pardon?	5	you know, we are focused to getting down to
6	(9:45 a.m.)	6	those target levels.
7	MR. O'BRIEN:	7	And we have already – you know, like we
8	Q. Would those costs be covered in rates?	8	talked about the gating or Mike mentioned
9	MR. HAYNES:	9	the gating process before. Like we have
10	A. No.	10	eliminated some jobs in that process where,
11	MR. O'BRIEN:	11	you know, we went in and we think that we
12	Q. Or is that a taxpayer cost?	12	can do a little bit better by using existing
13	MR. HAYNES:	13	resources and, you know, and even some of
14	A. I'm sorry, that would be – Churchill and	14	the ongoing capital, sustaining capital,
15	Menihek are not, not in rates at all.	15	things like that there that we would look
16	MR. O'BRIEN:	16	at. You know, can we contract some of that
17		17	*
	Q. Right. So that would be a taxpayer cost	18	out better? As long as it makes economic
18	though I guess? MR. HAYNES:		sense, that's the way we would go. MR. O'BRIEN:
19		19	
20	A. Well, it would be a – you know, obviously	20	Q. So, the figure in Nalcor's submission talks
21	Nalcor costs from that perspective.	21	about 12 million dollar target kind of
22	MR. O'BRIEN:	22	annually.
23	Q. Sure, okay. The last area of questions –	23	MR. HAYNES:
24	actually I had one more question in terms of		A. Yeah.
25	O&M savings. There is a bullet on Slide 4,	25	MR. O'BRIEN:
1	Page 50		
			Page 52
1	if we could bring up Slide 4? Sure. The	1	Q. Is there an overlap between Mr. Roberts' 20
2	if we could bring up Slide 4? Sure. The last bullet there, and I think you spoke	2	Q. Is there an overlap between Mr. Roberts' 20 million dollar figure and that 12 million or
	if we could bring up Slide 4? Sure. The last bullet there, and I think you spoke about this, Mr. Haynes. "Nalcor remains	2 3	Q. Is there an overlap between Mr. Roberts' 20 million dollar figure and that 12 million or are those separate?
2 3 4	if we could bring up Slide 4? Sure. The last bullet there, and I think you spoke	2 3 4	Q. Is there an overlap between Mr. Roberts' 20 million dollar figure and that 12 million or are those separate?  MR. HAYNES:
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1	MR. O'BRIEN:	1	Q. Do you have any idea as to where you are now
2	Q. Yeah.	2	in terms of what steps you've taken? Are
3	MR. HAYNES:	3	you getting close to that figure or do you
4	A. And I will – I'll be quite honest with you,	4	have any framework?
5	that's kind of a work in progress. We're	5	MS. WILLIAMS:
6	not there yet.	6	A. Well, I mean, if you look at our last GRA,
7	MR. O'BRIEN:	7	and the final order just came out there in
8	Q. Okay. All right. And that was my next	8	the fall, we were afforded or sorry, given a
9	question.	9	disallow of about four million dollars from
10	MR. HAYNES:	10	our previous GRA. So, we are certainly
11	A. But we're determined to find the savings.	11	making – and we anticipated that through
12	MR. O'BRIEN:	12	some of the – you know, just through the GRA
13	Q. All right, okay. And the last area, Ms.	13	process anyway, the RFIs. So, from the last
14	Williams, I wanted to ask you – if we can	14	you know, from our initial submittal to
15	move to Slide 5, and you spoke on this	15	the order that we received, we're making
1	slide, I believe. You mentioned the	16	
16 17		17	significant steps towards taking that money
1	efficiency and effectiveness plan and you		out. MR. O'BRIEN:
18	also mentioned that Hydro is committed to	18	
19	two million dollars in operating savings. I	19	Q. Okay.
20	just wanted to get a little bit more	20	MS. WILLIAMS:
21	background on the origin of that figure. I	21	A. But this would be on top of -
22	had asked Liberty about it and it didn't	22	MR. O'BRIEN:
23	seem to be that they felt that came from	23	Q. On top of that?
24	them, but can you give me some background on	24	MS. WILLIAMS:
25	the origin of that dollar figure?	25	A on that savings that we already are
l .	Page 54		Page 56
1	MS. WILLIAMS:	1	working toward.
2	A. I'm not familiar obviously with the question	2	MR. O'BRIEN:
3	that many morald barra agle of Liberater discotly.		
1	that you would have asked Liberty directly,	3	Q. Okay.
4	but I think Liberty did talk about two	4	MS. WILLIAMS:
1	but I think Liberty did talk about two million in theirs and so, we're committing		MS. WILLIAMS: A. Our ability to fully gain that four million,
4 5 6	but I think Liberty did talk about two	4 5 6	MS. WILLIAMS: A. Our ability to fully gain that four million, we're working toward it. Will we achieve it
4 5	but I think Liberty did talk about two million in theirs and so, we're committing	4 5	MS. WILLIAMS: A. Our ability to fully gain that four million,
4 5 6	but I think Liberty did talk about two million in theirs and so, we're committing to that. Ideally we'll get more than two	4 5 6	MS. WILLIAMS: A. Our ability to fully gain that four million, we're working toward it. Will we achieve it
4 5 6 7	but I think Liberty did talk about two million in theirs and so, we're committing to that. Ideally we'll get more than two million.	4 5 6 7	MS. WILLIAMS:  A. Our ability to fully gain that four million, we're working toward it. Will we achieve it fully in this year? It's still a bit of a
4 5 6 7 8	but I think Liberty did talk about two million in theirs and so, we're committing to that. Ideally we'll get more than two million. MR. O'BRIEN:	4 5 6 7 8	MS. WILLIAMS:  A. Our ability to fully gain that four million, we're working toward it. Will we achieve it fully in this year? It's still a bit of a stretch, but we're certainly committed to
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	Page 57		Page 59
1	Q. Sure.	1	MR. FITZGERALD:
2	MS. WILLIAMS:	2	Q. Okay. Do you expect any significant load
3	A. You know, labour contracts would affect	3	growth from say 2021 to 2030?
4	things. But that's where our commitment is	4	MS. WILLIAMS:
5	right now.	5	A. I don't think we anticipate significant load
6	MR. O'BRIEN:	6	forecast – sorry, load increase. However,
7	Q. And is that on top of the 20 million or 15	7	that would be dependent on anything that
8	to 20 million Mr. Roberts was speaking of as	8	could come up, any mines, any data centres,
9	well or is there an overlap?	9	anything like that. That can change fairly
10	MS. WILLIAMS:	10	quickly.
11	A. I think there will be overlap there because	11	MR. FITZGERALD:
12	we are certainly a subset of the FTEs that	12	Q. On the island?
13	Mr. Roberts mentioned. So, it would be a	13	MS. WILLIAMS:
14	subset, some portion of that, and the two	14	A. You know, if you look at the media, there's
15	million is not necessarily just FTE savings.	15	certainly things that come across our plate
16	MR. O'BRIEN:	16	
1		17	and some can turn into something real and
17	Q. No, I figured that, yeah. MS. WILLIAMS:		some couldn't. I mean, certainly there's,
18		18	you know, an interest in something around
19	A. Right, yeah. So, it would be some portion	19	Lewisporte right now. So, there's always
20	of a subset of what Mr. Roberts mentioned.	20	anything that could change at any point.
21	MR. O'BRIEN:	21	MR. FITZGERALD:
22	Q. Okay. I have no further questions for the	22	Q. So, just anticipating when the LIL is
23	Panel. Thank you very much.	23	operational, we're all hopeful it's going to
24	CHAIR:	24	be sooner than later, with that and with –
25	Q. Thank you, Mr. O'Brien. Consumer Advocate.	25	you know, even with Holyrood going offline,
	Page 58		Page 60
1	MR. FITZGERALD:	1	there won't be any net gain in – or there
2	Q. Thank you, Madame Chair. I'm going to	2	'11 1
		2	will be a net gain in capacity, I suppose,
3	start, I have a few questions and then Mr.	3	on the island?
4	start, I have a few questions and then Mr. Browne is going to have some questions as	3 4	on the island? MS. WILLIAMS:
5	start, I have a few questions and then Mr. Browne is going to have some questions as well. We'll strive not to overlap, of	3 4 5	on the island?
4	start, I have a few questions and then Mr. Browne is going to have some questions as well. We'll strive not to overlap, of course. Good morning, Panel.	3 4	on the island?  MS. WILLIAMS:  A. There'll be a small net gain of capacity, yes.
5	start, I have a few questions and then Mr. Browne is going to have some questions as well. We'll strive not to overlap, of	3 4 5	on the island?  MS. WILLIAMS: A. There'll be a small net gain of capacity, yes.  MR. FITZGERALD:
5 6	start, I have a few questions and then Mr. Browne is going to have some questions as well. We'll strive not to overlap, of course. Good morning, Panel.	3 4 5 6	on the island?  MS. WILLIAMS:  A. There'll be a small net gain of capacity, yes.
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1	Panel, I guess, and perhaps, you, Mr.	1	flat as possible in what I could best
2	Haynes. Mr. Marshall has indicated what the	2	describe as steady-state businesses, if
3	current estimate of Muskrat Falls' annual	3	there are any in fact because we're all
4	operating costs will be to 2030, but I	4	involved in the integration of this, but—so,
5	wasn't quite sure what his answer was on	5	Hydro has tried to keep a fairly flat
6	that. Do you have an insight there?	6	number. I think there's been some growth
7	MR. HAYNES:	7	reflected, I mean that the Board has
8	A. I do not. You mean the O&M cost?	8	reviewed and so forth that Ms. Williams can
9	MR. FITZGERALD:	9	speak better to. CF(L)Co. I know has
10	Q. Yes, on an annual basis.	10	stayed flat. The Corporate Services Groups
111	MR. HAYNES:	11	have stayed flat or down in terms of FTE
12	A. I think we're in about a hundred-million-	12	count. So, I know that there's been a
13	dollar range and I know that we're working	13	concerted effort to manage those costs
	<u> </u>		<u> </u>
14	it down, but you know, I don't have a number	15	through that period. You know, we've done
15	off the top of my head.		other things as well. We've had zero
16	MR. FITZGERALD:	16	percent quality increases for management for
17	Q. But that's the ballpark?	17	four years for example and one year for the
18	MR. HAYNES:	18	union. You know, budgets go through a lot
19	A. I think it's 97 and that includes, you know,	19	of scrutiny in terms of subsidiaries have to
20	the IBA payments and water rental, things	20	present them to their boards, then they have
21	like that. I think our O&M costs is down	21	to be scrutinized by the Nalcor Board, and
22	around the eight-million-dollar mark, in	22	then we do go over and present them to
23	that order.	23	Treasury and to the government. So,
24	MR. FITZGERALD:	24	everybody is focused on making sure that the
25	Q. Okay.	25	existing assets and structures are staying
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1	MR. HAYNES:	1	at a cost level that is as flat as we can
2	A. And you know, obviously, we want to get that	2	keep it. So, the growth that we've seen
3	down to what is the right number to be	3	whether it's pre-2016, if there was some
4	safely operating the facilities.	4	small growth as well, it would be indicative
5	MR. FITZGERALD:	5	again of bringing up the curve, people to
6	Q. Sure. Jumping around here a bit. Mr.	6	start to learn and build these new assets
7	Roberts, you're next. If we can go to slide	7	and commission these new assets.
8	10, the—and you spoke about this earlier.	8	MR. FITZGERALD:
9	The figure I think that you indicated that	9	Q. Sure.
10	you're striving or the corporation is	10	MR. ROBERTS:
11	striving to get to is the 2016 figure of	11	A. Almost primarily.
12	1463 FTEs. Prior to 2016, would you have an	12	MR. FITZGERALD:
13	idea of what the staffing levels were?	13	Q. So, this number of 1463, that's the number
14	MR. ROBERTS:	14	you're striving for thereabouts once you get
15	A. Not off the top my head. I would hazard to	15	to steady state?
16	say that I don't think they were materially	16	MR. ROBERTS:
17	different, but I'd have to confirm that.	17	A. That's correct, yeah.
18	MR. FITZGERALD:	18	MR. FITZGERALD:
19	Q. Sure, because I see an upward trend. I'm	19	Q. Okay.
20	wondering in 2010 wouldor you know, just	20	MR. ROBERTS:
21	as—take a number.	21	A. We have the majority of the plan for now
22	MR. ROBERTS:	22	that we can see and I think that is what we
	MIN. NODER 13.	44	
	Δ Veah what I can cay is that we've hear	22	feel would be a good number to be able to
23	A. Yeah, what I can say is that we've been	23	feel would be a good number to be able to
	A. Yeah, what I can say is that we've been working very hard for the last five or six years on keeping our operations costs as	23 24 25	feel would be a good number to be able to try to manage the asset base that we have.  MR. FITZGERALD:

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1	Q. Okay. Just a general question regarding oil	1	A. Okay.
2	revenues, Mr. Haynes, or maybe this is	2	MR. FITZGERALD:
3	perhaps directed better to Mr. Jones. Do	3	Q. Yes.
4	you have a forecast of the annual net	4	MR. HAYNES:
5	revenues from oil?	5	A. I'm going to go back a long time ago. A
6	MR. JONES:	6	long time ago there was an initiative
7	A. I don't.	7	started on that there, yeah. It was
8	MR. HAYNES:	8	actually started by Hydro-Quebec and they
9	A. I think that would be better left to the	9	were talking about an East Coast
10	Finance Panel that will be coming up next.	10	transmission organization. And I did attend
11	MR. FITZGERALD:	11	one meeting back in the nineties along with
12	Q. Okay.	12	Nova Scotia and New Brunswick and Quebec,
13	MR. HAYNES:	13	and that was the only meeting. It just
14	A. They would have a bit more information on	14	disappeared. You know, I think there's a
15	that than –	15	lot of negotiations going on there because
16	MR. FITZGERALD:	16	every province or every jurisdiction are
17	Q. Fair enough.	17	going to have their own self-interest to
18	MR. HAYNES:	18	protect and look after from their rate payer
19	A. The three on this side of the table aren't	19	point of view. It would eliminate, in
20	involved in the oil business at all.	20	theory, pancake rates, but it would also
21	MR. FITZGERALD:	21	make the rate a bit higher. So, I think it
22	Q. Okay.	22	will be really premature to see where that
23	MR. ROBERTS:	23	goes from that perspective and I would think
24	A. Thanks, Jim.	24	that will be a number of years away before
25	MR. HAYNES:	25	all the interested parties would actually
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1	A. Sorry, Mike.	1	come together and have one. You know, I
2	MR. FITZGERALD:	2	think on paper—in the United States, you
3	Q. Spread the fire.	3	know, the transmission organizations don't
4	MR. ROBERTS:	4	respect states lines.
5	A. Yeah.	5	MR. FITZGERALD:
6	MR. FITZGERALD:	6	Q. Yes.
7	Q. Okay, we'll defer that one, thanks. Mr.	7	MR. HAYNES:
8	Marshall referred just briefly to an eastern	8	A. You know, it has nothing to do with the
9	provincial regional transmission	9	state per se. You know, the New York ISO
10	organization or something to that effect. I	10	may be there, but a lot them are across the
11	didn't quite get the correct name on it, but	11	state lines. In Canada, it's pretty
12	it seems to be a suggestion of some type of	12	restrictive to provincial jurisdiction. So,
13	partnership or something, and we're just	13	it would require a lot of cooperation by a
14	wondering if this organization in a general	14	lot. I'm not saying it's wrong. I just
15	sense or a global sense would offer any	15	think that it would be premature to say what
16	relief from a rate mitigation perspective.	16	the value would be, but obviously, if the
17	Is that initiative there for that—now, it's	17	value is not there, I'm not quite sure why
18	obviously for Nalcor's purposes, but do you	18	anyone would want to go and do it. They
19	foresee any benefits for rate payers there?	19	would be looking for synergies of savings
20	MR. HAYNES:	20	and there may well be, but I think it's
21	A. So, are you talking about an East Coast	21	pretty premature to identify that at this
22	transmission organization or the –	22	point in time.
23	MR. FITZGERALD:	23	MR. FITZGERALD:
24	Q. Yes, yes.	24	Q. Okay. So, you're not as optimistic?
		25	
25	MR. HAYNES:	/ <b>&gt;</b>	MR. HAYNES:

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1	A. I'm not as optimistic that we'll get there	1	it's been driven by them, wouldn't really
2	in the next two or five years.	2	have much to do with energy pricing. That
3	MR. FITZGERALD:	3	might be incidental, but their focus would
4	Q. Okay.	4	be different?
5	MR. HAYNES:	5	MR. HAYNES:
6	A. I don't know if Greg could add something	6	A. Presumably off coal and greenhouse gas
7	from that perspective.	7	reduction.
8	MR. JONES:	8	MR. FITZGERALD:
9	A. Yeah, probably add a little bit of	9	Q. Yes.
10	additional colour. So, the—what Jim is	10	MR. HAYNES:
11	talking about is—or some initiatives that	11	A. Which obviously, we have a lot of resources
12	have been on the go in the past. The most	12	that could be brought –
13	recent initiative has been really	13	MR. FITZGERALD:
14	spearheaded by the Department of—or the	14	Q. Right.
15	Federal Mines and Energy Department, and	15	MR. HAYNES:
16	it's really focused on Eastern Canada. So,	16	A. You know, that could be used to facilitate
17	mostly a maritime view as to what are the	17	that.
18	things that can be done in that marketplace	18	(10:00 a.m.)
19	to help Canada's greenhouse gas objectives.	19	MR. FITZGERALD:
20	So, there's work happening, collaboration	20	Q. Sure. Moving to another topic, and I note
21	from the Provinces of Nova Scotia, New	$\frac{20}{21}$	thatand I'm sure that you've been brought
$\begin{vmatrix} 21\\22\end{vmatrix}$	Brunswick, PEI, Newfoundland and Labrador,	22	to this before, but Liberty made an
$\frac{22}{23}$	and Quebec as well, looking into various	23	observation in their September 3rd report
		24	
24	alternatives that can be brought forward for	25	that they found, they use the word "striking," that keeps coming back, that
25	the region to the extent that any of those	23	
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	alternatives enhance the transmission system	1	nearly half a billion dollars in five-year
2	in Eastern Canada, in particular, in the	2	capital spending between Newfoundland Power
3	Maritimes. Any-more transmission is always	3	and Hydro, and in the circumstances of the
4	good for the marketing business because it	4	looming rate shock, specifically are there
5	gives us greater access to the markets. So,	5	any steps that Hydro is looking to take to
6	in theory, there could very well be an	6	address this?
7	increase in the value that can be achieved	7	MS. WILLIAMS:
8	from existing surpluses through that	8	A. Yes, and actually we're in the middle of our
9	initiative.	9	capital budget application right now. About
10	MR. HAYNES:	10	two years ago, we started looking at that
11	A. I would suggest though that an East Coast or	11	problem, in particular as it relates to our
12	Eastern Canadian transmission organization	12	capital investment. And I think it really
13	is not a prerequisite to making value from	13	has been amplified through the Resource
14	the point of view of Gull Island or any	14	Adequacy Study, too, because there is a
15	other resource that we can bring to market	15	potential and there certainly would be a
16	because that can still be done. They can be	16	consideration of additional large-capacity
17	independent. And obviously, if Gull Island	17	build which would further exacerbate the
18	was done, it would be done to bring value to	18	rate pressure that we'd be under. So, we
19	the province, even if it's a long-term	19	started ourselves saying, "Okay, we need to
20	contract, it would be value, you know, not	20	forecast out a smaller annual capital
21	necessarily to Hydro, but presumably to	21	spend." So, from two budget cycles ago, to
22	Nalcor which could be used for rate	22	the current budget cycle on a five-year
23	mitigation purposes.	23	forecast basis, we're reducing our capital.
24	MR. FITZGERALD:	24	We went down about 250 million on a five-
25	Q. Sure. So, I guess the federal focus, if	25	year-investment plan. That's not to suggest

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	the plan is perfect. That's not to suggest	1	process at the beginning, and I think
2	that there's not going to be a few bumps	2	they're in a one in a five-year cycle where
3	that are going kind of come fairly quickly.	3	they go back after five years and
4	The parties would know about the Penstocks	4	essentially do sort of a cost-of-service
5	in Bay D'Espoir. We've been wanting to	5	review again. I think then what you'd be
6	strike the right balance in cost and	6	removing is maybe a GRA kind of in the
7	reliability there from an investment	7	middle and, again, I think to undertake
8	perspective, but we might have to make a	8	something that would be, you know, sort of
9	large investment in one of those Penstocks.	9	radially changing the Board's role would be
10	So, you know, we are taking the steps to	10	an initial significant effort. And right
11	send a very strong signal internally to all	11	now, there's a lot happening on the system
12	of our asset-holders, is that we are	12	as is. I'm not saying we should shut it
13	interested in lowering the annual capital	13	down by any stretch, but I think for now
14	spend and then we're going to have to	14	there's a lot happening from a regulatory
15	prioritize better than we ever have before.	15	perspective. So, it probably could be
16	So, we are definitely sending a signal	16	something that we would pursue in the future
17	internally into the parties here that we	17	to see, for Hydro, if it's something that
18	want to invest less and we want to look very	18	would be appropriate.
19	closely at the cost and reliability balance.	19	MR. FITZGERALD:
20	MR. FITZGERALD:	20	Q. Sure, okay. Fair enough. You mentioned
21	Q. Thanks. We noted yesterday, Power Advisory	21	that, yes, Hydro has a different mandate
22	in answer to some questions and, in fact,	22	sometimes than non-regulated utilities, and
23	Mr. Marshall as well when he was on the	23	if, you know, it's a rate mitigation milieu
24	stand, the suggestion of performance-based	24	that we're in, does Hydro or Nalcor believe
25	regulation was discussed and both Power	25	that if the government is to provide funds
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1	Advisory and Mr. Marshall seem to be open to	1	for rate mitigation, which Liberty has more
2	that type of regulation. Does Hydro have	2	or less suggested, the first order of
3	any openness to that as well?	3	priority should be to eliminate the
4	MS. WILLIAMS:	4	requirement that Newfoundland Power's
5	A. Um-hm. My director of Regulatory Affairs	5	customers pay the rural rate subsidy?
6	has had a very well-deserved vacation. He	6	MS. WILLIAMS:
7	had hoped his vacation would not line up	7	A. Should that be Hydro's—would that be Hydro's
8	with some of these questions, but I	8	priority that we would eliminate the
9	certainly did speak with him and we've	9	subsidy?
10	talked a little bit about performance-based	10	MR. FITZGERALD:
11	regulation and its potential role here in	11	Q. Yes, yes.
12	this province. And I'm going to	12	MS. WILLIAMS:
13	characterize it fairly carefully because,	13	A. I'm not sure that that would be the first
14	again, I'm certainly not an expert in this	14	priority. If you do that, as I understand
15	side, neither is Hydro, but you know, the	15	it, you would also then—the Labrador
16	information that I've been given is that in	16	Interconnect customers also contribute to
17	Canada it's generally applicable outside of	17	that rural subsidy. So, their rates would
18	Crown Utilities where we have a bit of a	18	go down as well. I think we'd have to look
19	different mandate from, you know, what we're	19	at, what do we do with that, with those
20	incented to do. So, it would certainly be	20	funds? I'm not sure that would be our first
1	an effort to implement it through the Board	21	priority. We would look at it generally,
21			
21 22	process. I think it is a fairly heavy	22	all rate classes, should understand how
1	•	22 23	they're going to be impacted by whatever
22	process. I think it is a fairly heavy		they're going to be impacted by whatever that subsidization would be.
22 23	process. I think it is a fairly heavy process to implement initially. I think the	23	they're going to be impacted by whatever

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1	Q. And regarding rates, does Hydro see any room	1	We're taking the actions as much as possible
2	for a utility in implementing seasonal rates	2	that we can right now that's within our
3	and time-of-use rates as Synergy (sic.) has	3	control. Obviously, there's other actions
4	suggested?	4	that are outside of, you know, this Panel's
5	MS. WILLIAMS:	5	control that would—could impact things, but
6	A. I think time-of-use rates, I think it was	6	you know, that's outside of our control.
7	Synapse.	7	MR. FITZGERALD:
8	MR. FITZGERALD:	8	Q. Sure. So, but this graphic is a, in your
9	Q. Synapse, I'm sorry.	9	estimation, your analysis, probably
10	MS. WILLIAMS:	10	accurate?
11	A. Yes. No, that's okay. Synapse, you know,	11	MS. WILLIAMS:
12	gave us sort of a starting point, some good	12	A. I have no reason to suggest it isn't.
13	advice for us to continue the conversation.	13	MR. FITZGERALD:
14	I think we have to understand both from	14	Q. Yes, so that's where we're going to be in
15	electrification and time-of-use rates,	15	2020 from a kilowatt hour perspective?
16	critical-peak pricing as solutions on the	16	MS. WILLIAMS:
17	system. I think there's a lot more work to	17	A. I have –
18	do, I think, with this Board and with the	18	MR. FITZGERALD:
19	parties to understand what the implications	19	Q. That's if everything –
20	are on all customers.	20	MR. HAYNES:
21	MR. FITZGERALD:	21	A. That would be my perception.
22	Q. I wonder if we can bring up the Liberty	22	MS. WILLIAMS:
23	Report, September 3rd. There's a chart there	23	A. Yeah.
24	I'd like you to comment on. It's at page 9	24	MR. HAYNES:
25	of the report. Thanks. This is the famous	25	A. Unless there's other things brought to bear,
	Page 78		Page 80
1	figure, 1.3, and this demonstrates or	1	but that basically, if I recall correctly,
2	illustrates the overall, you know, the	2	that chart indicates if all the things that
3	mitigated rates and unmitigated rates in	3	can be done on a rate mitigation regarding
4	stark graphic. It shows the unmitigated	4	the financial and all the other things are
5	rates in, for example, 2020 at it looks	5	all done and ploughed back the rates.
6	close to 21 cents a kilowatt hour there and	6	MR. FITZGERALD:
7	escalating beyond. And you know, it also	7	Q. Right.
8	shows the mitigated rates. So, if all of	8	MR. HAYNES:
9	the measures that were recommended by	9	A. You know, if there are other actions taken
10	Liberty are adopted, then we're stillit	10	by government where new money comes in, like
11	looks to me or to us, that the rate that	11	I know the oil and gas wasn't part of the
12	we're looking at in 2020 is still north of	12	discussion, but if—that would be other
13	16 cents a kilowatt hour. So, are there any	13	things that may come back or to government,
14	additional actions that Nalcor and/or Hydro	14	the provincial government, but you know,
15	are—can propose to keep the Island	15	other funding which is a taxpayer—you know,
16	electricity rates from increasing to that	16	from a taxpayer point of view, outside of
17	level or is this where we're going to be?	17	what Nalcor can self-generate. I'm not
18	MS. WILLIAMS:	18	quite sure we can do much better than that.
19	A. I think we have to wait for the Board's	19	MR. FITZGERALD:
20	report to government and then government to	20	Q. I understand.
21	decide to what level we're going to	21	MR. HAYNES:
22	subsidize. They will receive all this same	22	A. Which basically is comparable to at least
23	information and then we will have to work	23	Nova Scotia, but it's still not—it's still a
24	with the Board on our next GRA to understand		problem. It's still high obviously.
25	how is this going to impact all customers.	25	MR. FITZGERALD:

Page 81 Page 83 MR. HAYNES: O. Yes. Okay, I'm going to turn you over now 1 1 2 to Mr. Browne. 2 A. Yeah, there are some things in the 3 BROWNE, Q.C.: 3 shareholders' agreement, which set up a 4 Just on that point, Mr. Haynes, why are we 4 reserve fund, but however, a lot of the comparable to Nova Scotia? Can you tell us 5 5 income is being ploughed back into doing that? 6 necessary refurbishments on the plant. For 6 7 7 MR. HAYNES: instance, last year we were replaced a 8 8 Why are we comparable? runner which was cracked and we've been 9 9 BROWNE, O.C.: nursing that along. When I was there, we 10 Q. Yes. 10 were nursing it along, but eventually you MR. HAYNES: get to a point where you have to replace it 11 11 12 A. I understand that -12 and there's one -BROWNE, Q.C.: 13 BROWNE, Q.C.: 13 14 Why is our electricity system comparable to 14 O. So, there's no new money coming from Hydro 15 Nova Scotia and our usage? 15 here for instance into CF(L)Co? 16 MR. HAYNES: 16 MR. HAYNES: No, the rates of Newfoundland Hydro are .2 17 I have not looked into Nova Scotia's cost of 17 cents a kilowatt hour and the Twin Block is 18 service and things like that there and I—it 18 19 wouldn't be my—a core skill that I have, but 19 I think roughly 2.2 and that is basically--I mean, I'm just—what I referenced was that the energy part is unregulated. 20 20 21 the current rates in Nova Scotia, I believe, 21 BROWNE, Q.C.: 22 22 are in the 15, 16, 17-cent range. That was And that all was part of the agreement when the GWAC came on and so on? 23 only a statement. 23 24 BROWNE, Q.C.: 24 MR. HAYNES: 25 And you would know that 30 percent of Nova 25 Well, GWAC, I think there was—I don't Α. O. Page 82 Page 84 1 Scotia's customers use electric heat and 70 1 remember all the details, but there was some 2 percent of ours do? 2 caveats there to prevent that all the GWAC 3 MR. HAYNES: 3 money would be actually turned over to the 4 I do realize it's on that survey. They do 4 shareholders actually because it was A. 5 5 have access to gas. There's a fair bit of intended to actually sustain the plant. 6 6 BROWNE, O.C.: oil. 7 BROWNE, Q.C.: 7 And the objective is that the facility would 8 Mr. Haynes, you've made reference to 8 be entirely refurbished in 2041 through the Q. 9 Churchill Falls and the refurbishment of the use of this process alone? 9 10 Churchill Falls system in preparation in 10 MR. HAYNES: preparation for the take-over of the system, That was the thought process at the time, 11 11 Α. the return of the system in 2041. Isn't 12 12 there an agreement in place in reference to BROWNE, Q.C.: 13 13 14 how that refurbishment is being undertaken 14 And that still is? O. 15 within CF(L)Co? 15 MR. HAYNES: 16 MR. HAYNES: 16 It still is. Basically, we are reinvesting A. in the plant heavily. With capital program, 17 Basically, right now, most of those, 17 A. 18 practically all the reinvestment basically 18 it's roughly 60, 65 million dollars a year which we're currently reviewing and we'll be 19 comes from revenue that CF(L)Co currently 19 20 gets from its rate payers, from its 20 challenged again on, you know, how we're 21 customers I should say, if that's what you 21 doing it, you know, from that perspective, 22 22 but I don't expect it's going to change mean. 23 BROWNE, Q.C.: 23 much. 24 O. So, it's all reinvested back into the 24 BROWNE, O.C.: 25 enterprise? 25 So, there's no money coming out of the

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1	facility in dividends as such? The	1	I cannot cite the names off the top of my
2	dividends are being reinvested save for the	2	head. They are senior positions from that
3	7-million-dollar –	3	perspective.
4	MR. HAYNES:	4	BROWNE, Q.C.:
5	A. Yes, just the preferred –	5	Q. Sure. So, yes.
6	BROWNE, Q.C.:	6	MR. HAYNES:
7	Q. The preferred dividend?	7	A. Yeah.
8	MR. HAYNES:	8	BROWNE, Q.C.:
9	A. That's all that's coming out right now.	9	Q. Well, representatives. You can do it in
10	BROWNE, Q.C.:	10	that way.
11	Q. And the preferred dividend comes from the	11	MR. HAYNES:
12	time of the sale of the facility from BRINCO	12	A. Yeah.
13	where they're paying –	13	BROWNE, Q.C.:
14	MR. HAYNES:	13	
15		15	Q. So, there's two newfoundland Hydro, two Nalcor?
16	BROWNE, Q.C.:	16	MR. HAYNES:
17	Q provincial taxes?	17	A. That's correct.
18	MR. HAYNES:	18	BROWNE, Q.C.:
19	A. That's my understanding, yeah.	19	Q. On the –
20	BROWNE, Q.C.:	20	MR. HAYNES:
21	Q. Where it became a public facility, so it was	21	A. On the Muskrat Falls Committee.
22	agreed that there would be a preferred	22	BROWNE, Q.C.:
23	dividend given to the province for that as	23	Q. The Joint Operating Committee?
24	seven million?	24	MR. HAYNES:
25	(10:15 a.m.)	25	A. For the Muskrat Falls there are a total of
	Page 86		Page 88
1	MR. HAYNES:	1	four; two Hydro and two Nalcor.
2	A. I can't speak with accuracy, but that's my	2	BROWNE, Q.C.:
3	understanding.	3	Q. And in the other committee, the Emera
4	BROWNE, Q.C.:	4	Committee, who is that on?
5	Q. Yes.	5	MR. HAYNES:
6	MR. HAYNES:	6	A. The structures basically was intended to be
7	A. Yeah.	7	four Nalcor and two Emera, basically, but we
8	BROWNE, Q.C.:	8	have assigned, if you will, one of those
9	Q. That's my understanding as well. In	9	three—four seats of Nalcor to Hydro so
10	reference to these—to the sustainable cost	10	they'd have visibility and transparency.
11	management and what you've presented here in	11	So, they have involvement in discussion on
12	page, the joint cost oversightJoint	12	these particular—on their responsibilities.
13	Operating Committees the JOC. And there's a	13	So, there's—they have more insight than just
14	Joint Operating Committee, the Emera	14	being said, "Here's what we're doing," sort
15	Committee for other matters. If we can go	15	of thing.
16	to those for a moment, Madam Clerk, because	16	BROWNE, Q.C.:
17	they're in the Sustainable Cost Management	17	Q. And the purpose of the committee, of the
18	Costs, called Joint Cost Oversight, Joint	18	Emera Committee, is as is stated there, "to
19	Operating Committees, JOC. There we go.	19	oversee various matters related to the
20	These committees, who is on these	20	operation and maintenance of the LIL, the
20 21	committees?	20	LTA and Maritime Link," and the various
22	MR. HAYNES:	22	standards there.
		22	MR. HAYNES:
23	A. On the Muskrat Falls Committee, I just don't remember the names offhand. There are two	23 24	MR. HAYNES: A. Yes.
24 25	from Newfoundland Hydro and two from Nalcor.	25	BROWNE, Q.C.:

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1	Q. So, any spending that has to be done would	1	BROWNE, Q.C.:
2	be done through that committee?	2	Q. Sure, sir, thank you. In reference to
3	MR. HAYNES:	3	Exploit's, you're bringing an application
4	A. Well, they would review the Annual	4	before the Board at this time to move the
5	Maintenance Plan, obviously, and the Asset	5	Exploit's assets into Hydro. Why now?
6	Management Plan which we would involve—which	6	MS. WILLIAMS:
7	would involve, you know, the budgets and	7	A. It is certainly the shareholders' asset at
8	funding. I'm not sure off the top of my	8	this point and we're working with the
9	head if that's an approval process or how	9	shareholders as they would prefer that it
10	that works, but basically, the intention is	10	move out of the shareholders' ownership and
11	to ensure these assets operate reliably and	11	into, I believe it should sit within their
12	safely, too, for all stakeholders or off-	12	regulated set of assets, managed as part of
13	takers of power and energy.	13	the whole system. It's certainly managed as
14	BROWNE, Q.C.:	14	part of the whole system now, but I think it
15	Q. And these are off limits to the regulator?	15	would provide for better access to long-term
16	MR. HAYNES:	16	investments through the regulators, so the
17	A. Yes, by—yes, they both are actually.	17	shareholder is asking us to do this.
18	BROWNE, Q.C.:	18	BROWNE, Q.C.:
19	Q. But yet, when expenditures are made, they	19	Q. How did that get into Nalcor to begin with,
20	will go to the rate payers?	20	Exploit's?
21	MR. HAYNES:	21	MS. WILLIAMS:
22	A. They do.	22	A. Through the expropriation—and that was
23	BROWNE, Q.C.:	23	before my time, but through the
24	Q. How fair a process is that? There's no rate	24	expropriation I think was 2008.
25	payer representation there at all.	25	BROWNE, Q.C.:
-	Page 90		Page 92
1	MR. HAYNES:	1	Q. And the expropriation involved Fortis shares
2	A. There are two members of Hydro on the	2	as well as I understand?
3	Muskrat Falls Committee and there's one	3	MR. HAYNES:
4	member on the Wires Committee if you will.	4	A. Yes, Fortis had interest in the, I'm going
5	So, there's transparency and there's a voice	5	to say the Beaton (phonetic) Unit with
6	at the table, but under the current regime	6	Abitibi and there was also another ENEL with
7	and structure, they are unregulated.	7	respect to Star Lake, so there were a couple
8	BROWNE, Q.C.:	8	of other independent or separate
9	Q. And that's true and that's not your fault,	9	organizations that had investments in those
10	but just an observation that we're paying	10	assets, yes.
11	for something over which the Board has no	11	BROWNE, Q.C.:
12	oversight and over which we have no say.	12	: · ·
13	MR. HAYNES:	13	Q. And who paid Fortis out, was it Nalcor?  MS. WILLIAMS:
14	A. I understand.	14	A. The government would have, I imagine, as
15		15	
16	BROWNE, Q.C.:	16	part of the expropriation. BROWNE, Q.C.:
	Q. To change that, would that require the		
17	agreement of Emera?	17	Q. Well if you're not sure, that's okay, I can
18	MR. HAYNES:	18	refer to the finance committee.
19	A. I think the finance committee would be more	19	MR. HAYNES:
20	involved in the mechanics of all that there,	20	A. I'm not sure.
21	but I expect that it would be, not only	21	MS. WILLIAMS:
22	Emera, but the provincial government	22	A. Not sure.
23	primarily and the federal government on the	23	BROWNE, Q.C.:
24 25	loan guarantee, but Mr. Meaney could probably address that much better than I.	24	Q. I'm sure they will certainly know the answer
	nronaniy address that much better than I	25	to that.

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1	MR. HAYNES:	1	Nalcor Energy Marketing and from a rate
2	A. I expect they would.	2	payer perspective, rate payers are seeking
3	BROWNE, Q.C.:	3	lowest cost options for anything which we're
4	Q. By the time we ask it anyway. Because if	4	paying for, and lowest cost risk and what
5	it's being transferred, if that asset is	5	has gathered our attention was that the
6	being transferred into Hydro at this time,	6	birth of them came about when the preferred
7	surely that would increase the rate base,	7	avenue was to build Gull Island, is that not
8	would it not?	8	correct, Mr. Roberts—or I'm sorry, Mr. Jones
9	MS. WILLIAMS:	9	probably?
10	A. Yes.	10	MR. JONES:
11	BROWNE, Q.C.:	11	A. No, that's not correct. The birth of Nalcor
12	Q. And depending upon the way its brought in	12	Energy, it started, as I described
13	will be of interest to rate payers,	13	yesterday, with the repurposing, let's say,
14	ultimately.	14	of the surplus energy out of the recapture
15	MS. WILLIAMS:	15	- <del>-</del> -
		16	contract and then the strategic assessment
16	A. Which is why we're submitting the		basically identified that the next major
17	application to the Board for their	17	project that Nalcor would execute would
18	consideration and the Intervenor's	18	drive the rationale behind internal growth
19	participation. It's not going to be an	19	and that next project was Muskrat Falls, and
20	Order-in-Council, it's going to be a	20	that was sufficient to drive the analysis.
21	regulatory process, so it will be up to	21	BROWNE, Q.C.:
22	this, the Board and Intervenors' input to	22	Q. What year was that?
23	make the decision if it's appropriate.	23	MR. JONES:
24	BROWNE, Q.C.:	24	A. The final, well the decision –
25	Q. And of course, any expansion of rate base,	25	BROWNE, Q.C.:
	Page 94		Page 96
1	via capital expenditures and capital	1	Q. When it was conceived, when it was planned.
2	projects and otherwise, is of interest to	2	MR. JONES:
3	the rate payers of the Province, given the	3	A. When it was originally planned—next slide
4	circumstances in which we find ourselves.	4	please, yes, so that would have been in the
5	MS. WILLIAMS:	5	fall of 2009 we would have initiated that
6	A. Absolutely.	6	strategic review and in early 2011 we would
7	BROWNE, Q.C.:	7	have made the decision or that the preferred
8	Q. So if that process was put on hold for the	8	alternative was the internal growth, so by
9	time being until everyone sees the lay of	9	early 2011, I believe we were at that point
10	the land post Muskrat, there would be really	10	changing gears.
11	no prejudice to Nalcor or Hydro.	11	BROWNE, Q.C.:
12	MS. WILLIAMS:	12	Q. Well pretty close to my original ascertain
1 1.3	A. I see no prejudice, the only—I alluded to it	13	that the plan was put in place in reference
13	A. I see no prejudice, the only—I alluded to it vesterday, the only impact, which again I	13 14	that the plan was put in place in reference to Gull Island in 2009, that's where all
14	yesterday, the only impact, which again I	14	to Gull Island in 2009, that's where all
14 15	yesterday, the only impact, which again I don't see a delay of a year or two as being	14 15	to Gull Island in 2009, that's where all this was headed, was it not?
14 15 16	yesterday, the only impact, which again I don't see a delay of a year or two as being a material impact, is the revenue stream	14 15 16	to Gull Island in 2009, that's where all this was headed, was it not? MR. JONES:
14 15 16 17	yesterday, the only impact, which again I don't see a delay of a year or two as being a material impact, is the revenue stream that is utilized for those assets. It's a	14 15 16 17	to Gull Island in 2009, that's where all this was headed, was it not?  MR. JONES:  A. In 2009 there was—Gull Island was the
14 15 16 17 18	yesterday, the only impact, which again I don't see a delay of a year or two as being a material impact, is the revenue stream that is utilized for those assets. It's a revenue stream that is simply on the basis	14 15 16 17 18	to Gull Island in 2009, that's where all this was headed, was it not?  MR. JONES:  A. In 2009 there was—Gull Island was the preferred or was the expected path forward.
14 15 16 17 18 19	yesterday, the only impact, which again I don't see a delay of a year or two as being a material impact, is the revenue stream that is utilized for those assets. It's a revenue stream that is simply on the basis of the PPA and so therefore, it has an	14 15 16 17 18 19	to Gull Island in 2009, that's where all this was headed, was it not?  MR. JONES:  A. In 2009 there was—Gull Island was the preferred or was the expected path forward.  BROWNE, Q.C.:
14 15 16 17 18 19 20	yesterday, the only impact, which again I don't see a delay of a year or two as being a material impact, is the revenue stream that is utilized for those assets. It's a revenue stream that is simply on the basis of the PPA and so therefore, it has an impact on exactly how we use the funds, so	14 15 16 17 18 19 20	to Gull Island in 2009, that's where all this was headed, was it not?  MR. JONES:  A. In 2009 there was—Gull Island was the preferred or was the expected path forward.  BROWNE, Q.C.:  Q. Sure.
14 15 16 17 18 19 20 21	yesterday, the only impact, which again I don't see a delay of a year or two as being a material impact, is the revenue stream that is utilized for those assets. It's a revenue stream that is simply on the basis of the PPA and so therefore, it has an impact on exactly how we use the funds, so that is the only prejudice, but no, a year	14 15 16 17 18 19 20 21	to Gull Island in 2009, that's where all this was headed, was it not?  MR. JONES:  A. In 2009 there was—Gull Island was the preferred or was the expected path forward.  BROWNE, Q.C.:  Q. Sure.  MR. JONES:
14 15 16 17 18 19 20 21 22	yesterday, the only impact, which again I don't see a delay of a year or two as being a material impact, is the revenue stream that is utilized for those assets. It's a revenue stream that is simply on the basis of the PPA and so therefore, it has an impact on exactly how we use the funds, so that is the only prejudice, but no, a year or two delay would not prejudice the	14 15 16 17 18 19 20 21 22	to Gull Island in 2009, that's where all this was headed, was it not?  MR. JONES:  A. In 2009 there was—Gull Island was the preferred or was the expected path forward.  BROWNE, Q.C.: Q. Sure.  MR. JONES: A. Gears changed, focus changed, Muskrat Falls
14 15 16 17 18 19 20 21 22 23	yesterday, the only impact, which again I don't see a delay of a year or two as being a material impact, is the revenue stream that is utilized for those assets. It's a revenue stream that is simply on the basis of the PPA and so therefore, it has an impact on exactly how we use the funds, so that is the only prejudice, but no, a year or two delay would not prejudice the operation.	14 15 16 17 18 19 20 21 22 23	to Gull Island in 2009, that's where all this was headed, was it not?  MR. JONES:  A. In 2009 there was—Gull Island was the preferred or was the expected path forward.  BROWNE, Q.C.: Q. Sure.  MR. JONES:  A. Gears changed, focus changed, Muskrat Falls was initiated so when we were doing the
14 15 16 17 18 19 20 21 22	yesterday, the only impact, which again I don't see a delay of a year or two as being a material impact, is the revenue stream that is utilized for those assets. It's a revenue stream that is simply on the basis of the PPA and so therefore, it has an impact on exactly how we use the funds, so that is the only prejudice, but no, a year or two delay would not prejudice the	14 15 16 17 18 19 20 21 22	to Gull Island in 2009, that's where all this was headed, was it not?  MR. JONES:  A. In 2009 there was—Gull Island was the preferred or was the expected path forward.  BROWNE, Q.C.: Q. Sure.  MR. JONES: A. Gears changed, focus changed, Muskrat Falls

Page 99 MR. JONES: next major asset and then once the sanction 1 1 2 decision in 2012 was concluded, we went back 2 Electricity assets. A. 3 and reassessed that strategic assessment and 3 BROWNE, Q.C.: 4 re-evaluated it and further confirmed that 4 Do you know of any construction going on 5 internal growth with Muskrat Falls alone was 5 there in reference to -6 preferred. 6 MR. JONES: 7 BROWNE, Q.C.: 7 Absolutely, there's tens of thousands of A. 8 Now, in your presentation you're raising 8 megawatts of gas. 9 issues of public concern in that you're 9 BROWNE, Q.C.: 10 stating that Nalcor Energy Marketing would 10 Q. We're in gas, yeah, we're in that form of be very good in anticipation down the road energy, electric I'm talking -11 11 12 sometime of the development of Gull Island 12 MR. JONES: 13 and we all know the facts that Gull Island, 13 And the states of, well certainly the state Α. 14 when discussions were being held with Hydro 14 of Massachusetts has gone out seeking Canadian hydro. New York State is seeking 15 Quebec and they got results from the Quebec 15 regulator in reference to transmission and Canadian hydro, has explicitly identified 16 16 the ability to transmit any Gull Island Canadian hydro as a desired resource. We 17 17 18 power through Hydro Quebec lines wasn't 18 have the Atlantic Canada provinces seeking there, having gone through all those 19 19 to replace coal. avenues, why would Gull Island still be even BROWNE, Q.C.: 20 20 21 on the table when all that failed after 21 All these we heard from Mr. Marshall 22 22 complete assessment of it just a couple of vesterday and he told us unless there are years ago? contracts in place from outsiders, there's 23 23 24 MR. JONES: 24 really no appetite, there's no ability, in 25 So I would suggest that circumstances have 25 fact, for Nalcor to be involved with Gull Page 100 Page 98 1 changed. We've got initiatives in the—the 1 Island. 2 greenhouse gas initiatives that are being 2 MR. HAYNES: 3 brought forward by the federal governments 3 I don't think that means that we—I don't Α. 4 and the governments in New York and New 4 think that implies that we should not be 5 5 England, all present new unique challenges looking at that opportunity. Gull Island is 6 for system operators and electricity 6 a, you know, Gull Island was looked at many 7 providers to source clean non-emitting 7 times over the years for sure and it was 8 energy. Gull Island is a game changer. It 8 being looked at when I joined Hydro in 1977, 9 9 is a needle mover in the region and for that it was always a goal to develop Gull Island 10 reason, people are interested in it. 10 because I thought there was opportunity. There's been negotiations with Hydro Quebec 11 BROWNE, O.C.: 11 12 over the years and yes, they've never been 12 What people are interested in it? We had evidence from experts here telling us due to successful, that's certainly true and I 13 13 the natural gas situation in the United 14 would also say that if you were to build 14 15 States, for now in the foreseeable future no 15 Gull Island, transmission has to be 16 one privately is building anything electric, 16 reinforced, you know, and primarily through 17 any electric facilities, as far as they 17 Quebec or partly in Labrador, but certainly 18 knew, and the future lay with that. What 18 mostly through Quebec, but that doesn't mean 19 has changed? 19 we shouldn't be looking at that opportunity. 20 MR. JONES: 20 Things have changed, it is a renewable 21 21 source or energy and gas is a, in my view, So I don't think it's accurate to say that A. 22 nobody is building assets in the United 22 gas is a bandaid to greenhouse gas. It is not a solution, it's better than, you know, 23 States. 23 24 BROWNE, O.C.: 24 traditional oil fired or coal fired, but it's not a panacea that's going to be there 25 Electricity assets. 25 Q.

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1	forever if people are serious about climate	1	replace to any large degree at this point in
2	change, which is—so we can't just sit back	2	time.
3	and ignore the fact that there may be an	3	(10:30 a.m.)
4	opportunity, so we do need to look at that	4	BROWNE, Q.C.:
5	and, you know, studies with Hydro Quebec to	5	Q. Well if Hydro Quebec and people who are
6	look at transmission and stuff like that	6	interested in developing Gull Island and
7	because it will be through Quebec, more than	7	there are markets for it and there's no
1 '		8	
8	likely, it doesn't have to be only that, but		resulting cost to rate payers and it all
9	it's intuitive that's the cheapest way to do	9	comes on stream, if all these things happen
10	it, so we need to look. We shouldn't just	10	out, I mean, well and good, but we're not
11	let the water continue running down the	11	talking about anytime soon. Mr. Marshall
12	river if we can bring value to the Province.	12	mentioned it could be ten years down the
13	BROWNE, Q.C.:	13	road or more, so my point is this, things
14	Q. But you already looked and you looked	14	change, technology has changed within ten
15	completely in reference to that project, it	15	years, why would Gull Island be considered
16	was studied, you were going to do the	16	in terms of Nalcor Energy Marketing today?
17	project, that was the project of preference	17	Probably everyone at Nalcor Energy Marketing
18	in July of 2010, 2011, I forget the year	18	today might be long gone by the time Gull
19	now, and then within two weeks or three	19	Island comes on.
20	weeks you've pivoted to Muskrat Falls, which	20	MR. JONES:
21	most analysists said was a huge mistake, but	21	A. Well, if I may, the point that we're making
22	if that—I mean, we're not dealing with too	22	here and I think it was the very last point
23	long ago. There was no transmission, there	23	on the summary slide, was that Nalcor Energy
24	was no capacity, if there are no markets,	24	Marketing by virtue of its activity in the
25	why would you spend, I mean it's there, we	25	marketplace brings value in assessing
25		23	
1	Page 102	1	Page 104
	all know it's there. You mentioned 1977 you	1	options, such as Gull, such as runner
2	were looking at it, that's 50 years ago.	2	upgrades at Churchill Falls, such as
3	MR. HAYNES:	3	additional wind projects here in the
4	A. That's right.	4	Province, small Hydro developments. To be
5	BROWNE, Q.C.:	5	able to assess that, you need to have an
6	Q. So it's a long time.	6	understanding of the markets in which this
7	MR. HAYNES:	7	ultimately goes, because as we have said
8	A. Yes.	8	many times, with the completion of Muskrat
9	BROWNE, Q.C.:	9	Falls, the needs of this Province are
10	Q. So I'm talking about reality here and	10	largely met for the foreseeable future, so
11	realism.	11	any future developments will be on the back
12	MR. HAYNES:	12	of an export market and that's where Nalcor
13	A. I don't think that we should be discounting	13	Energy Marketing brings its expertise to
14	the value that Gull Island can bring to the	14	bear in supporting that analysis and that
15	economy of Newfoundland and Canada and bring	15	decision-making.
16	to displacing natural gas or coal or	16	BROWNE, Q.C.:
17	anything else. There is a need, there's	17	Q. You also mentioned that Nalcor Energy
18	2000 megawatts in Eastern Canada of coal	18	Marketing would be invaluable when the
19	that will disappear and there's a place for	19	Churchill Falls contract is up in 2041, 20
20	wind, there's a place for solar and so on,	20	years from now and we all know Churchill
I ∠U	*	21	Falls and Churchill Falls power can only
		41	rans and Churchin rans power can only
21	but basically what Hydro brings is if	22	flour through Under Ouches that's the1-
21 22	firming that up from the point of view of	22	flow through Hydro Quebec, that's the only
21 22 23	firming that up from the point of view of managing the, when the sun is not shining	23	possibility, the only transmission network
21 22	firming that up from the point of view of		

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1	MR. HAYNES:	1	guess that's what they would do, is that a
2	A. Yes, but the transmission system is there	2	fair comment?
3	and CF(L)Co are not bound to sell that to	3	MR. HAYNES:
4	Hydro Quebec or to Newfoundland Hydro, for	4	A. Correct, there's a very detailed process by
5	that matter. It will be available and it	5	which we go through offering and making the
6	would be work in years required to hopefully	6	decision to purchase or not and then how
7	have those things settled out by 2031, as	7	it's scheduled in real time after the
8	Mr. Marshall said if we understand, if it's	8	contract has been set once each year, those
9	not available to Hydro Quebec or if it's	9	are all very detailed steps that have to be
10	sold in a different formula, that's all open	10	taken.
11	for discussion, obviously, that's to be	11	BROWNE, Q.C.:
12	negotiated.	12	Q. Now under the agreement and the Energy
13	BROWNE, Q.C.:	13	Access Agreement and so on, if Nova Scotia,
14	Q. And Hydro Quebec, of course, has, what, a 35	14	I guess it's Emera or it's Nova Scotia
15	percent interest in CF(L)Co in any case.	15	Power, if they're transmitting our power
16	It's the large minority shareholder.	16	sale through Nova Scotia, do we pay Nova
17	MR. HAYNES:	17	Scotia a transmission change for doing that?
18	A. And that stays, yes.	18	After the Maritime Link, over the Maritime
19	BROWNE, Q.C.:	19	Link there's no charge.
20	Q. I just wonder if the justification or the	20	MR. JONES:
21	rationalization for Nalcor Energy Marketing	21	A. After the Maritime Link.
22	should be in those projects, as opposed to the here and now. Can it be rationalized in	22	BROWNE, Q.C.:
23		23 24	Q. But once we're on Nova Scotia land, we're
24 25	and of itself for the value its doing here and now, and can it, Mr. Jones?	25	going across Nova Scotia to market the
23		23	power.
	Page 106 MR. JONES:	1	Page 108 MR. JONES:
$\frac{1}{2}$	A. Absolutely.	2	A. If we're delivering to markets beyond Nova
$\frac{2}{3}$	BROWNE, Q.C.:	3	Scotia, so if we're selling, for example, to
4	Q. Okay, let's just go to page 13 of your	4	New Brunswick Power, then we would pay the
5	presentation, it's entitled "Electricity	5	tariff through Nova Scotia.
6	Assets for Extra-Provincial Trade". And	6	BROWNE, Q.C.:
7	within that, of course we see the great	7	Q. You'd pay the tariff, so they're charging us
8	conundrum which we face is that we live on	8	a tariff, Nova Scotia?
9	an island and in order to transmit and	9	MR. JONES:
10	market power through the Maritime Link we	10	A. Absolutely.
11	have to go through a number of	11	BROWNE, Q.C.:
12	jurisdictions, don't we?	12	Q. So that was not negotiated where we would be
	MR. HAYNES:	13	able to get that as part of the Maritime
13		14	
	A. So through the Maritime Link, if we are	14	Link agreements and –
13	· · · · · · · · · · · · · · · · · · ·	15	Link agreements and – MR. JONES:
13 14	A. So through the Maritime Link, if we are selling to Nova Scotia, we transmit over the Maritime Link.		
13 14 15	selling to Nova Scotia, we transmit over the	15	MR. JONES:
13 14 15 16	selling to Nova Scotia, we transmit over the Maritime Link.	15 16	MR. JONES: A. Well it actually was, so what we have
13 14 15 16 17	selling to Nova Scotia, we transmit over the Maritime Link. BROWNE, Q.C.:	15 16 17	MR. JONES: A. Well it actually was, so what we have through Nova Scotia are firm rights, no
13 14 15 16 17 18	selling to Nova Scotia, we transmit over the Maritime Link. BROWNE, Q.C.: Q. And if you're selling to Nova Scotia and	15 16 17 18 19 20	MR. JONES: A. Well it actually was, so what we have through Nova Scotia are firm rights, no different than we have through Quebec. The
13 14 15 16 17 18 19 20 21	selling to Nova Scotia, we transmit over the Maritime Link.  BROWNE, Q.C.: Q. And if you're selling to Nova Scotia and there are obligations in reference to Nova	15 16 17 18 19 20 21	MR. JONES:  A. Well it actually was, so what we have through Nova Scotia are firm rights, no different than we have through Quebec. The difference that we have through Nova Scotia is we pay as we use it. In Quebec, because to have the privilege of having 265
13 14 15 16 17 18 19 20 21 22	selling to Nova Scotia, we transmit over the Maritime Link.  BROWNE, Q.C.:  Q. And if you're selling to Nova Scotia and there are obligations in reference to Nova Scotia, we have the excess agreement that Nova Scotia is able to take looksee to see what the market price is in New England if	15 16 17 18 19 20 21 22	MR. JONES:  A. Well it actually was, so what we have through Nova Scotia are firm rights, no different than we have through Quebec. The difference that we have through Nova Scotia is we pay as we use it. In Quebec, because to have the privilege of having 265 megawatts of firm transmission through
13 14 15 16 17 18 19 20 21 22 23	selling to Nova Scotia, we transmit over the Maritime Link.  BROWNE, Q.C.:  Q. And if you're selling to Nova Scotia and there are obligations in reference to Nova Scotia, we have the excess agreement that Nova Scotia is able to take looksee to see what the market price is in New England if the New England market price suits their	15 16 17 18 19 20 21 22 23	MR. JONES:  A. Well it actually was, so what we have through Nova Scotia are firm rights, no different than we have through Quebec. The difference that we have through Nova Scotia is we pay as we use it. In Quebec, because to have the privilege of having 265 megawatts of firm transmission through Quebec, we have to pay, it's roughly 22
13 14 15 16 17 18 19 20 21 22	selling to Nova Scotia, we transmit over the Maritime Link.  BROWNE, Q.C.:  Q. And if you're selling to Nova Scotia and there are obligations in reference to Nova Scotia, we have the excess agreement that Nova Scotia is able to take looksee to see what the market price is in New England if	15 16 17 18 19 20 21 22	MR. JONES:  A. Well it actually was, so what we have through Nova Scotia are firm rights, no different than we have through Quebec. The difference that we have through Nova Scotia is we pay as we use it. In Quebec, because to have the privilege of having 265 megawatts of firm transmission through

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1	services through Nova Scotia and it's being	1	Q. In terms of Nova Scotia and the 330 megawatt
2	transferred to us as we use it. So if we	2	which you referred to, the firm
3	don't use it in Nova Scotia in a particular	3	transmission, are we paying anything for
4	year, if we don't sell to New Brunswick,	4	that, for the use of that corridor?
5	then we don't pay anything to Nova Scotia.	5	MR. JONES:
6	If we sell a megawatt hour, then we pay	6	A. Not until we use it.
7	whatever the dollar per megawatt hour tariff	7	BROWNE, Q.C.:
8	is through Nova Scotia.	8	Q. Until we use it we have to pay?
9	BROWNE, Q.C.:	9	MR. JONES:
10	Q. So if you're selling it and the market is	10	A. We pay the posted tariff through Nova
11	into New England, you're paying a	11	Scotia.
12	transmission charge to Nova Scotia, you're	12	BROWNE, Q.C.:
13	paying one to New Brunswick.	13	Q. And so are we paying to reserve it, the same
14	MR. JONES:	14	way we're paying for the 266 megawatts
15	A. Correct.	15	through Quebec?
16	BROWNE, Q.C.:	16	MR. JONES:
17	Q. And where else would you be paying it?	17	A. No.
18	MR. JONES:	18	BROWNE, Q.C.:
19	A. That's it.	19	Q. So we don't pay to reserve the corridor?
20	BROWNE, Q.C.;	20	MR. JOHNES:
21	Q. Do you pay it on the sight of delivery? If	21	A. Correct.
22	it goes into one of the New England states,	22	BROWNE, Q.C.:
23	would you have to pay that there because the		Q. But there's no corridor reserved either,
24	American rules kick in?	24	it's just –
25	MR. JONES:	25	MR. JONES:
	Page 110		Page 112
1	A. No, we sell to the New England system	1	A. It is reserved by Emera and under contract
2	operator.	2	with Emera, so one of the formal agreements
3	BROWNE, Q.C.:	3	with Emera, the Nova Scotia Transmission
4	Q. Okay, he takes it from there.	4	Utilization Agreement, that is the agreement
5	MR. JONES:	5	by which Emera confers to us the rights to
6	A. And they take it from there.	6	use that transmission path through Nova
7	BROWNE, Q.C.:	7	Scotia and the terms of that use.
8	Q. In reference to firm transmission here, you	8	BROWNE, Q.C.:
9	got Quebec 265 megawatts, that's the	9	Q. And can it be any time in a 24 hour period
10	corridor through Quebec, the firm corridor	10	or are there specific times or is it only
11	that has been purchased for use?	11	when available?
12	MR. JONES:	12	MR. JONES:
13	A. Right, that's correct, it originates in	13	A. It's any time within a 24 hour period. They
14	Labrador and it terminates at a site called	14	have an obligation to provide it to us and
15	Mesina in New York.	15	if that obligation is not met, then we have
16	BROWNE, Q.C.:	16	some fairly significant backstop penalties.
17	Q. And what do we pay for that?	17	BROWNE, Q.C.:
18	MR. JONES:	18	Q. And we're just paying a transmission charge
19	A. Roughly 22 million dollars a year.	19	at that stage.
20	BROWNE, Q.C.:	20	MR. JONES:
20 21	Q. And through that 265 megawatt corridor, is	l	A. That's correct.
22	that useable at any time or are there –	22	BROWNE, Q.C.:
23	MR. JONES:	23	Q. Now with the payment through, go back to
23	A. Yes.	23	Quebec a minute for the corridor, you're
25	BROWNE, Q.C.:	25	paying 22 million, do you also pay
	DIVO MINE, G.C		paying 22 minion, do you also pay

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1	transmission charges to Hydro Quebec in	1	MR. JONES:
2	addition to that?	2	A. Absolutely, so if we face that bottleneck
3	MR. JONES:	3	and we're at risk of getting curtailed, we
4	A. No, that is the only charge.	4	can call upon those transmission rights,
5	BROWNE, Q.C.:	5	those congestion rights to get us into that
6	Q. So it's 22 billion and you can send 265	6	market.
7	megawatts and that's the complete	7	BROWNE, Q.C.:
8	transmission charge?	8	Q. And who are you paying for that and is it an
9	MR. JONES:	9	annual fee or just as you use it?
10	A. Correct, and if we use it, we pay 22 million	10	MR. JONES:
11	dollars; if we use it all hours, we pay 22	11	A. As we use it.
12	million dollars; if we don't use it at all,	12	BROWNE, Q.C.:
13	we still pay 22 million dollars.	13	Q. And you've done an analysis, I guess, at
14	BROWNE, Q.C.:	14	some point you must have done analysis, are
15	Q. So it's an annual reserve and you have been		the transmission charges always the same or
16	using it.	16	are they—do they change from day to day?
17	MR. JONES:	17	MR. JONES:
18	A. Oh, absolutely.	18	A. Generally speaking they are set by the
19	BROWNE, Q.C.:	19	regulator in each jurisdiction and the rates
20	Q. Yes, because that's the only route you	20	can be different between on peak and off-
21	really have at this stage.	21	peak periods, but once you're in the on-peak
22	MR. JONES:	22	period, so the period from 7:00 in the
23	A. Correct.	23	morning until 11:00 at night, that's
24	BROWNE, Q.C.:	24	considered a peak period and the
25	Q. Okay, and in New Brunswick you have	25	transmission rate is set for that peak
	Page 114		Page 116
1	something similar, you have something, 260	1	period. It may be something different for
2	megawatts firm transmission, how does that	2	the overnight period in different
3	work, seven months you have there.	3	jurisdictions.
4	MR. JONES:	4	BROWNE, Q.C.:
5	A. Seven months, so that's the seven summer	5	Q. And which jurisdiction would have the
6	months we have the ability to use that 260	6	greater value. You're paying Quebec 265,
7	megawatts at any time, during those seven	7	365 days of the year, 24 hours a day, you're
8	summer months of the year.	8	paying them a total of 20 million. In doing
9	BROWNE, Q.C.:	9	your own analysis going through all these
10	Q. Are you paying for the reserve or just for	10	different systems and paying various
11	the usage?	11	transmission charges, would that be more
12	MR. JONES:	12	expensive or less expensive than what you're
13	A. No, just for the usage.	13	paying Quebec?
14	BROWNE, Q.C.:	14	MR. JONES:
15	Q. So you're paying a transmission charge.	15	A. It will depend upon the time in which we do
16	MR. JONES:	16	it, so that's the job of the traders and the
17	A. Correct.	17	real-time traders and the day ahead traders
18	BROWNE, Q.C.:	18	to make that assessment of the cost, the
19	Q. And in New England, 300 megawatts, what's	19	incremental cost to move energy from
20	that?	20	Newfoundland and Labrador to a market,
21	MR. JONES:	21	whether we use the Quebec path or whether we
22	A. So that's a congestion rights on the New	22	use the Maritime path, and we'd make
23	Brunswick, New England interface, so –	23	assessment do the prices justify us moving
24	BROWNE, Q.C.:	24	in one market verses the other, so if, for
25	Q. It's where the sort of bottleneck is.	25	example prices in New York, for example,
			1 1

Page 117  1 might be \$40.00 a megawatt hour, well we 1 transmission has been purchas	Page 119
	-
	sed for a while
2 don't pay anything additional going through 2 now, hasn't it?	
3 Quebec, so we're going to get \$40.00 a 3 MR. JONES:	
4 megawatt hour. 4 A. That was required to deliver the	he recapture
5 BROWNE, Q.C.: 5 energy to market.	
6 Q. Sure. 6 BROWNE, Q.C.:	
7 MR. JONES: 7 Q. Yeah, exactly. In reference to	
8 A. If they're \$40.00 in New Brunswick but we 8 recapturing, and you've given	some evidence
9 have to pay a \$7.00 transmission fee through 9 on that, before Nalcor Energy	Marketing came
Nova Scotia, then we're only getting \$33.00, 10 on the scene, there were two re	outes to sell
so we'll make the decision to transact 11 the recall power and one was to	through Hydro
through Quebec into New York in that 12 Quebec itself, give it to Hydro	Quebec to
particular case. There will be many times 13 market or for them to purchase	e at market
that we will be using both paths at the same   14 values, I guess, is that correct?	?
15 time. 15 MR. JONES:	
16 BROWNE, Q.C.: 16 A. They'd purchase it under a fix	red price
17 Q. And once you're outside Quebec, you're into 17 contract.	•
the American market without any further 18 BROWNE, Q.C.:	
19 transmission fees. 19 Q. In a fixed price contract, and v	when that
20 MR. JONES: 20 contract expired, Emera came	on the scene?
21 A. Correct. No further fees. There are, just 21 MR. JONES:	
to be absolutely clear, there are some 22 A. So that contract had been rene	ewed or, yeah,
23 incidental fees, maybe a dollar, maybe fifty 23 a different version of the contra	
24 cents a megawatt hour just to transact, they 24 of times over the years from 1	.998 –
25 call them import fees, but they're really 25 MR. HAYNES:	
Page 118	Page 120
1 incidental. 1 A. 1998 up until it was taken bac	ck. I think
2 BROWNE, Q.C.: 2 there might have been three a	ctual renewals
3 Q. So does the Quebec contract have its 3 of that contract with Hydro Q	Juebec.
4 advantages that way if it's 20 million? 4 MR. JONES:	
5 MR. JONES: 5 A. And in 2008 when the then cu	urrent contract
6 A. Well the advantage is that we have it and 6 was coming up for renewal or	r was expiring in
7 it's year round and with the Quebec 7 April of 2009, we initiated an	evaluation of
8 transmission we also have the right of 8 what are the alternatives to ac	chieve
9 redirect, so the Nova Scotia interface, for 9 greatest value from that energ	gy, and it was
example, there is one interface out of Nova 10 determined that the contract, in	marketing it
11 Scotia into New Brunswick. In Quebec, there 11 ourselves and getting direct ac	ccess to
12 are numerous trading nodes between Quebec 12 market ourselves was the pref	ferred route
and Ontario, New York, New England and New 13 because it gave us the greates	st value.
Brunswick. So with the Quebec transmission, 14 BROWNE, Q.C.:	
we can pick it all up or a piece of it at 15 Q. And there was a financial independent of the control of the con	ependent study
any particular time and redirect it. We lead to shown of that, that it was far lead to shown of that, the shown of that it was far lead to show the shown of the	•
often sell into New York, New England, New 17 incur costs from Nalcor Energ	gy Marketing
Brunswick and Ontario at the same time. 18 than to contract it out to Emer	
19 BROWNE, Q.C.: 19 Quebec.	
20 Q. So Quebec has its advantages. 20 MR. JONES:	
21 MR. JONES: 21 A. So at that time –	
22 A. Quebec definitely has its advantages. 22 BROWNE, Q.C.:	
23 BROWNE, Q.C.: 23 Q. I'm looking for best values he	ere.
24 Q. And, of course, Quebec is there without 24 (10:45 a.m.)	
25 Muskrat Falls, that was their—that 25 MR. JONES:	

Page 121 Page 123 Q. A. Absolutely, so at that time we looked at 1 So we'd pay something for the use of that, 1 2 marketing it ourselves or selling it under 2 as well as for New Brunswick transmission, 3 another renewed contract with Hydro Quebec 3 would we pay both then at that time? 4 or a potential third party, but it's selling 4 MR. JONES: 5 it at the boarder. We did not—we could not 5 At that time, if we were entering into a A. 6 conclude an acceptable arrangement with 6 transaction and it made economic sense for 7 Hydro Quebec, so then we looked at different 7 us to call upon the Bayside Plant to have it 8 alternatives to get that energy to market 8 as a reserve and to deliver into New 9 and we went out with a public or we went out 9 England, then we would pay both the Bayside 10 with a solicitation for and invited bidders 10 capacity call and the New Brunswick transmission, of course, that would be on 11 to come in, market providers or market 11 12 energy trading companies to come in and 12 the back of a transaction that we entered 13 provide that service to us to get it to the 13 into with customers into New England. 14 market. We ultimately ended up selecting 14 BROWNE, O.C.: 15 Emera as the preferred alternative that gave 15 So the Bayside capacity call, you're saying Q. 16 us the greatest value. And then we went 16 Bayside is an Emera asset? MR. JONES: forward with the strategic assessment of. 17 17 18 okay, so what do we do now in the long term. 18 It is, it was an Emera asset, it has now 19 BROWNE, Q.C.: 19 been transferred to New Brunswick Power. But we have the same rights that Emera had 20 You also in this diagram here referred to 20 21 Bayside capacity called 250 megawatts, 21 conferred upon us through the negotiations 22 22 what's that? basing New Brunswick Power is setting in to fill those obligations on Emera's behalf. 23 MR. JONES: 23 24 24 So Bayside is combined cycle combustion BROWNE, Q.C.: A. 25 turbine that's located in Saint John, New 25 You have in here renewable attributes, O. Page 122 Page 124 1 Brunswick as part of the arrangements with 1 greenhouse gas credits, how does that work? 2 Emera. Emera had ownership rights into that 2 How does that work in the mix with Nalcor 3 plant. It is now currently owned by New 3 Energy Marketing? MR. JONES: 4 Brunswick Power and we have rights through 4 5 5 New Brunswick Power. But it is also one of So right now there are markets for what I A. 6 those rights that we pay for it as we use 6 call RECs, renewable energy certificates, in 7 it. If we don't ever use it, we'll never 7 New England. The market is, it can be 8 ever pay for anything, but we have the right 8 called—well there's really two markets, one 9 to call upon that capacity to backstop our 9 is called a voluntary market, so that would 10 deliveries into New England. 10 be a company like Walmart might come out for example and say we want to have "X" percent 11 11 BROWNE, Q.C.: 12 of our energy supplied from green resources. 12 O. Ever used it yet? The way that they achieve that recognition 13 MR. JONES: 13 14 We have not. It doesn't become effective 14 is they pay for green energy credits. So 15 for example, here on the Island, I believe 15 until the project is complete. 16 BROWNE, Q.C.: 16 Granite Canal is a resource that's owned by 17 obviously Newfoundland and Labrador Hydro 17 Until you use the Maritime Link. Q. 18 MR. JONES: 18 that has eco-logo certification, so we can sell those credits. Until the Maritime Link 19 No, until Muskrat Falls is complete. 19 20 BROWNE, Q.C.: 20 and the connections to North America, the 21 21 Okay. only market that we had was a voluntary Q. 22 MR. JONES: 22 market, so there are a couple of companies 23 It's tied to sanction of Muskrat Falls—or 23 testing the waters here. We did sell a very 24 sorry, commissioning of Muskrat Falls. 24 small amount to the Juno's, when the Juno's 25 BROWNE, Q.C.: 25 were here in St. John's a number of years

Page 125 Page 127 ago. The Juno's wanted to be green. 1 to qualify for green energy credits in New 1 2 2 England for delivery into Massachusetts. So BROWNE, Q.C.: that's a proposed rule making that's 3 Okay, so just do a general quantification of 3 4 that, what does it mean in dollars and cents 4 currently out. We're still working with the 5 for Nalcor Energy Marketing and I guess for 5 administration in Massachusetts. 6 us, ultimately. 6 BROWNE, O.C.: 7 7 MR. JONES: But we've heard evidence that the only Q. 8 8 So into the long term – market right now for electricity is the spot 9 9 market, so if you're selling to the spot BROWNE, O.C.: 10 Q. I just said the Juno's, by example. 10 market, how do you get the greenhouse gas energy credits from that point forward? How MR. JONES: 11 11 12 So the Juno's, as I said, that was a very 12 does that work? 13 incidental amount, I think it was like 13 MR. JONES: 14 \$1,500.00, \$1,600.00, I'm looking over at 14 A. Those are also sold on the spot market as 15 Jeff, I can't remember the exact number. It 15 well. So whether it's a contract market or 16 was incidental, like I said, they were kind 16 a spot market, it really doesn't matter. If the counterparty is buying green energy 17 of kicking the tires. 17 credits or green energy, attributes that are 18 BROWNE, Q.C.: 18 associated with energy, those are traded no 19 And that's probably a nice word, yeah, 19 Q. \$1,600.00 or thereabouts, okay. different that the energy is traded. 20 20 21 MR. JONES: 21 BROWNE, Q.C.: 22 22 But if you look into the New England and New So it's not the case of Walmart calling up Ο. York marketplaces, renewable energy credits Nalcor Energy Marketing and saying we got a 23 23 24 have ranged from \$50.00 a megawatt hour to 24 store up in New England somewhere and can 25 five cents a kilowatt hour equivalent. They 25 you send your electricity here? Can you Page 128 Page 126 1 have been down as low as \$15.00 a megawatt 1 take it and – 2 hour or one and a half cents. The market 2 MR. JONES: 3 changes quite dramatically as different 3 So what I described then would be called – A. 4 policy initiatives are put in place by the 4 BROWNE, O.C.: 5 5 various governments. So we would be looking - dissemble it so I have an understanding Q. 6 to trade into those markets to the extent 6 and others here might want an understanding 7 that we had renewable energy credits here, 7 of it as well. 8 so recognizing Hydro as clean and non-8 MR. JONES: 9 emitting, basically gives us the ability to 9 Α. So when I spoke about Walmart and the 10 sell into green markets and right now, at 10 Juno's, those were called the voluntary the current state we are not eligible to 11 market, they call us up through a green 11 trade RECs into New England because we are energy marketer and ask if we had anything 12 12 called a second tier jurisdiction, so we're that we would be willing to sell and we sold 13 13 14 two jurisdictions away from New England. 14 to the Juno's. But the compliance or that 15 We've been quite active in Massachusetts 15 voluntary market is a very soft market 16 with the administrators and the government 16 because it only just runs on companies, you there and recently the Massachusetts know, wanting to claim themselves as green. 17 17 18 Department of Energy, the equivalent of 18 What I refer to in New England is called a Department of Energy, I can't remember the 19 19 compliance market and those compliance 20 exact acronym now, has come out with some 20 markets are driven by the state. The state 21 suggested changes to its green energy or 21 sets renewable energy standards that says 22 clean portfolio standards and one of those 22 that "X" percent of a particular utility's 23 suggestions or one of those policy changes 23 energy must come from clean energy 24 they're looking at making is making energy 24 resources. The way that they meet that standard is they buy renewable energy 25 from Newfoundland and Labrador eligible as 25

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1	credits or they buy green energy that's	1	the state insisted that the utilities go out
2	certified as green energy. That energy is	2	and procure this clean energy. Ultimately
3	traded on trading platforms no different	3	we were not successful. Hydro Quebec was
4	than when we trade electricity.	4	successful with its partner, Eversource, on
5	BROWNE, Q.C.:	5	the, I think it was called the New Hampshire
6	Q. So if your electricity is used in a	6	Line. That particular transmission link was
7	combined, you'll get a percentage of the	7	since rejected by New Hampshire and now an
8	green energy credits, a number of companies	8	alternate route through Maine is being
9	might get it or –	9	pursued.
10	MR. JONES:	10	BROWNE, Q.C.:
11	A. Correct, yes, absolutely, so the state would	11	Q. So Hydro Quebec is still working on that
12	look to buy or the utilities would be out	12	because it hasn't been perfected yet.
1		13	MR. JONES:
13	buying green energy credits no different		
14	than they're buying energy.	14	A. The contract has been signed, so the utility
15	BROWNE, Q.C.:	15	has signed the contract with Hydro Quebec
16	Q. So if they're buying it from various	16	and the transmission developers are in the
17	providers, energy providers, you would get	17	process of finalizing, and getting the final
18	your share of your –	18	permits to go through Maine.
19	MR. JONES:	19	BROWNE, Q.C.:
20	A. We would be competing with those other	20	Q. And your partner, Emera, your partner in
21	energy providers.	21	some things but not in all things, your
22	BROWNE, Q.C.:	22	partner attempted or offered to buy into
23	Q. No doubt you've made reference to markets	23	that market as well by an underwater cable
24	in, and indeed Power Advisory in New England	24	they were planning from Nova Scotia into –
25	and Boston and areas, no doubt you've	25	MD IONEC.
L <sup>2</sup> J	and Doston and areas, no doubt you ve	23	MR. JONES:
23	Page 130	23	Page 132
1	<del>-</del>	1	
	Page 130 contacted these markets to see if there's any contracts available.	1 2	Page 132
1	Page 130 contacted these markets to see if there's	1	A. It was actually from New Brunswick into
1 2	Page 130 contacted these markets to see if there's any contracts available.	1 2	A. It was actually from New Brunswick into Boston Harbour and we were part of that
1 2 3	Page 130 contacted these markets to see if there's any contracts available. MR. JONES: A. We have.	1 2 3	A. It was actually from New Brunswick into Boston Harbour and we were part of that coalition. BROWNE, Q.C.:
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Page 133 Page 135 some folks supporting us from Hydro would power, is going to go through Nalcor Energy 1 1 2 have also charged into Nalcor. 2 via Hydro and we're going to pay a cost for 3 3 that, for the marketing, that's the plan? BROWNE, Q.C.: 4 4 MR. JONES: And how was all that costing reported to the 5 shareholder and ultimately to rate payers? 5 Presumably Nalcor Energy Marketing will not A. 6 Do rate payers know what's going on there 6 be providing free service to Newfoundland 7 where you haven't been successful as where 7 and Labrador Hydro ad infinitum. There 8 8 you have been successful? obviously has to be an appropriate value 9 9 sharing mechanism and if, you know, if there MR. JONES: 10 A. So there would have been no impact on rate 10 is some decision that all of the value from 11 payers at all because it was ultimately a 11 export activity ends up benefiting the 12 Nalcor expense and the Nalcor expense was 12 customer, then ultimately the customer will justified to the Nalcor board. 13 have to pay to market that energy and 13 14 BROWNE, O.C.: 14 whether you do it through Nalcor Energy 15 In terms of Nalcor Energy Marketing where 15 Marketing, which based on the analysis that Q. 16 they're marketing recall power and power 16 we've done is by far the most cost-effective from Hydro, do they charge any kind of 17 17 route to do it, or if you pay it through the 18 agency fee for marketing that power? 18 third party provider, you still have to pay 19 MR. JONES: 19 for services. BROWNE, O.C.: 20 A. We have not yet. 20 21 BROWNE, O.C.: 21 Has that been costed in when you're costing 22 "We have not yet", now the word "yet" 22 the value of Nalcor Energy Marketing verses attracts some interest, what are you plans the values of hiring a contractor, an 23 23 24 there? 24 outside contractor, to market the power? 25 MR. JONES: 25 MR. JONES: Page 134 Page 136 1 A. As I had indicated earlier, it is Hydro's 1 A. Yes. 2 BROWNE, Q.C.: intention to bring forward a long-term 2 Have those values been considered when we're 3 marketing agreement that will govern how 3 4 market activities are undertaken and how 4 looking for the lowest possible cost? 5 value is shared between marketing and Hydro 5 MR. JONES: 6 and Nalcor and any other entities that may 6 Α. Yes. 7 be part of the puzzle, and that will 7 BROWNE, O.C.: 8 ultimately be brought here before the Board 8 From a rate payer perspective. Q. 9 for, at the very least, discussion. I had 9 MR. JONES: 10 to look at Jennifer just to make sure I 10 A. Correct. didn't say anything wrong then. 11 11 BROWNE, O.C.: MS. WILLIAMS: 12 12 It's 11:00 now, Chair, I'm going to move to another area in reference to the same topic 13 Yes. 13 A. 14 BROWNE, O.C.: 14 where you're bringing power onto this Island 15 through the Maritime Link and the 15 So rate payers would be paying additional 16 costs for Nalcor Energy Marketing to market 16 possibilities there, what's possible and rate pay of power, the power that we're what's needed, given the fix we find 17 17 18 paying from, coming down from Muskrat Falls, 18 ourselves in, in reference to the LIL. Is 19 Muskrat Falls has been paid for by the rate 19 it a good time for a break? 20 payers of the Province and any excess power, 20 CHAIR: 21 I guess, has been paid for. The plan was to 21 Sure, thank you, we'll reconvene at 11:30. Q. 22 pay for in rate payer rates, so it's 22 BROWNE, Q.C.: 23 essentially rate payer power one way or the 23 Q. Thank you very much. 24 other, so our power then is going to be 24 (RECESS - 11:00 A.M.)25 marketed and our power, the rate payer 25 (RECONVENE - 11:30 A.M.)

Page 137 1 CHAIR: 2 Q. Thank you, Back to you, Mr. Browne. 3 BROWNE, Q.C.: 4 Q. Thank you, Chair. In terms of greenhouse gas credit alone? Has that been discussed among you, what the possibilities are there? 5 gas credits, Mr. Jones, I gather there's to the greenhouse gas credit alone? Has that been discussed among you, what the possibilities are there? 6 value in that for the future? 7 MR. JONES: 8 A. Yes 9 BROWNE, Q.C.: 10 Q. And in terms of the value, you gave an unumup per kilowatt, did you say, is worth 5.5 cents or - 11 1 amount per kilowatt, did you say, is worth 12 2 5.5 cents or - 13 1 MR. JONES: 14 A. Dollars per megawatt hour. 15 BROWNE, Q.C.: 16 Q. Dollar per megawatt hour. 17 MR. JONES: 18 A. Equivalent would be somewhere between 15—16 Q. Dollar per megawatt hour. 17 MR. JONES: 18 A. Equivalent would be somewhere between 15—16 Q. Dollar per megawatt hour. 19 Five seen it as low as \$15.00 a megawatt hour and I've seen it as high as over 50 21 BROWNE, Q.C.: 22 Q. So, in the future this is a way of Nalcor 22 23 Energy making money through that gas credit. 24 MR. JONES: 25 A. Correct.  Page 138 1 BROWNE, Q.C.: 29 Q. Now, it just strikes me that from a rate payer perspective, the rate payers are obligated to pay for Muskrat Falls through facts. The power is our power that we paid for in our rates. Why would the greenhouse gas credit go to Augin, that is the price of earbon going to be. Again, the price of earbon	October 10, 2019 Verbatim Court Rep					
2 D. Thank you. Chair. In terms of greenhouse gas credits, Mr. Jones, I gather there's value in that for the future?  7 MR. JONES:  8 A. Yes  9 BROWNE, Q.C.:  10 Q. And in terms of the value, you gave an line amount per kilowatt, did you say, is worth 5.5 cents or—  11 amount per kilowatt, did you say, is worth 5.5 cents or—  12 BROWNE, Q.C.:  13 MR. JONES:  14 A. Dollars per megawatt hour.  15 BROWNE, Q.C.:  16 Q. Dollar per megawatt hour.  17 MR. JONES:  18 A. Equivalent would be somewhere between 15— 19 I've seen it as low as \$15.00 a megawatt hour and I've seen it as high as over 50.  21 BROWNE, Q.C.:  22 Q. So, in the future this is a way of Nalcor Energy making money through that gas credit.  23 BROWNE, Q.C.:  24 MR. JONES:  25 A. Correct.  Page 138  1 BROWNE, Q.C.:  2 Q. Now, it just strikes me that from a rate obligated to pay for Muskraf Falls through rates. The power is our power that we paid for in our rates. Why would the greenhouse gas credit go to Nalcor Energy Marketing is a vehicle by which the value is achieved. Who get the benefit of that value, ultimately is a shareholder decides that all value of external market activities go to the account of the customer here in the Province, then any monies that NEM would carm in the marketplace would ultimately be returned back to Hydro.  2 BROWNE, Q.C.:  3 BROWNE, Q.C.:  4 the greenhouse gas credit alone? Has that been discussed among you, what the possibilities are there?  4 A. No. There's a number of analyses that are out there when we look at, you know, what's the price of carbon going to be. Again, that's not something that I'm deeply involved in, but it changes with different wills of diffe		Page 137		Page 139		
BROWNE, Q.C.:	1	CHAIR:	1	Energy Marketing could make in reference to		
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23 BROWNE, Q.C.: 23 depends on what's available to market. And		÷		· · · · · · · · · · · · · · · · · · ·		
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12. X. In terms of Sectionable East such inspection, as 127 in the post friendlet of a when we is deside				-		
you have a figure in mind as to what Nalcor   25 of the confines of the recapture agreement		•		-		

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	Page 141		Page 143
1	and we have the full ability or the full	1	Hydro or to Nalcor.
2	capability of the Province's hydro electric	2	MR. HAYNES:
3	reservoirs, I would full expect to see a	3	A. Could I interject? For the power that is
4	whole lot different, much different pattern	4	Hydro's power, it goes back to Hydro. Under
5	of trade activity.	5	the construct of the PPAs, the stuff that is
6	BROWNE, Q.C.:	6	Nalcor's is there, but the stuff that
7	Q. Your profit for 2018, do you recall what	7	belongs to Hydro, the Schedule 2 and
8	that would have been generally?	8	recapture eventually, is basically Hydro's.
9	MR. JONES:	9	So there is a mix of that. A part of it is
10	Oh, I can't remember off hand.	10	Hydro's, period, and a part of it is
11	BROWNE, Q.C.:	11	Nalcor's from that perspective and if you
12	Q. Twenty two million?	12	direct it back to rate mitigation, of
13	MR. JONES:	13	course, it's -
14	A. Yes, I was going to say, in the twenty	14	BROWNE, Q.C.:
15	million dollar range.	15	Q. So the Labrador recapture, for instance,
16	BROWNE, Q.C.:	16	that would go to Nalcor, but the Muskrat
17		17	Falls –
18	Q. And 2017 it was less than that, fourteen million?	18	MR. HAYNES:
	MR. JONES:	19	
19			A. In the old days, Labrador recapture was
20	A. Yeah, and that was largely due with energies	20	always exported and that was basically,
21	that was being delivered last year,	21	never went back to Hydro. Hydro only
22	certainly was the energies that were being	22	retained recapture required for its use in
23	delivered over the LIL.	23	Labrador Interconnect System. What would
24	BROWNE, Q.C.:	24	happen in the future is that the recapture
25	Q. Now how is your profit and your—where does	25	that Hydro has will come to the Island and
	Page 142		Page 144
1	it go? Does it go to Nalcor or does it go	1	will allow more Muskrat Falls power, with a
2	to Hydro? Where does your contribution to	2	Hydro tag on it, if you will, from that
3	the Nalcor system, where is your dividend,	3	perspective, so the recall power will be
4	where does it all go?	4	used on the Island first and then Muskrat
5	MR. JONES:	5	Falls second. It just makes the excess
6	A. Currently Nalcor Energy Marketing's	6	Muskrat Falls' power a little bit bigger
7	dividends, a net profits from Nalcor Energy	7	than it was, but Nalcor's amount that they
8	Marketing's trading activities goes to	8	own is in Nalcor, but Hydro gets the benefit
9	Nalcor, with the exception of transactions	9	of its Schedule 2, I think, energy, which is
10	that we enter into on Hydro's behalf. So	10	effectively bigger because recapture is
11	fuel displacement transactions that we enter	11	coming in first. I don't know if that's
12	into on Hydro's behalf go to the account of	12	helpful, but –
13	Hydro.	13	BROWNE, Q.C.:
14	BROWNE, Q.C.:	14	Q. But you could see where a case could be made
15	Q. So let me get this straight. You will be	15	that any of the recall or I'm sorry, any of
16	selling our electricity excess that the rate	16	the excess power that's sold through the
17	payers are paying for from Muskrat Falls,	17	Labrador Island Link, any of these excesses
18	you will be selling it into the markets.	18	which are paid for by the rate payers should
19	You make a profit and that market, that	19	go directly toward our rates, should they
20	profit does not go back to mitigate against	20	not?
21	our rates, it goes to Nalcor, the	21	MR. HAYNES:
22	shareholder?	22	A. And I guess the finance folks will speak to
23	MR. JONES:	23	it, with rate subsidization or using all
24	A. That is ultimately the decision of the	24	those dividends back, it kind of looks after
25	shareholder to make, whether it goes to	25	itself from that perspective. But the
1 /.)	shareholder to make, whether it goes to	23	nsen nom mår perspective. Dut me

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1	constructs of the contract –	1	either to support reserves, basically the
2	BROWNE, Q.C.:	2	need to have additional reserves of backup
3	Q. So we shouldn't be embarrassed, the rate	3	capacity or additional capacity here on the
4	payer shouldn't be too embarrassed looking	4	Island, and for water management purposes.
5	for that money to go towards their rates	5	So when we talk about water management
6	because it's our power to begin with.	6	purposes, these would be, I talked earlier
7	MR. HAYNES:	7	about the water management meetings that
8	A. I think the constructs put before the, you	8	Nalcor and NEM or NEM and Hydro conduct
9	know, the Board, with respect to rate	9	weekly. Currently we're into a particular
10	mitigation kind of contemplates that they	10	dry spell, so our reservoirs are actually
11	will be used for that anyway, but it is a	11	quite low right now compared to where they
12	shareholder decision how it is done.	12	have been historically. So a decision has
13	MR. JONES:	13	been made and the decision ultimately was
14	A. If I could just add on to what Jim was	14	made by Hydro that Hydro wanted additional
15	saying there, so based on our forecast in	15	energy to bring into the Province to
16	2021, 2022, let's say following full in-	16	basically shore up its water resources. So
17	service of the Muskrat Falls facility, based	17	in those weekly water management meetings,
18	on the contracts that are currently in	18	there's a target given to Nalcor Energy
19	place, not any decisions of the shareholder	19	Marketing to go out and procure "X" amount
20	at some point in the future, but on the	20	of energy on Hydro's behalf, so currently
21	=	21	the instruction to Nalcor Energy Marketing
22	contracts that are currently in place of all	21	<i>:</i>
23	of the surplus energy that will be directed	23	is go out and buy whatever you can, as long
	to the external markets, I'm going to say,	23 24	as it's cost effective, i.e. it's cheaper
24 25	big round numbers, roughly half is to the	25	than Holyrood, go out and buy whatever you
23	account of Newfoundland and Labrador Hydro	23	can up to the capability of the Maritime
1	Page 146	1	Page 148
	and roughly half is to the account of	1	Link to bring it in. So over this, just
2	Nalcor. The part that's to the account of	2	anecdotally this past week, so I just looked
3	Newfoundland and Labrador Hydro is	3	up the water management package from earlier
4	Newfoundland and Labrador Hydro, and any	4	this week, in the previous week we imported,
5	value associated with that, will be retained	5	on average, 60 megawatts, all hours,
6	by Newfoundland and Labrador Hydro. What I	6	throughout the week. So that was all to the
7	was referring to is the portion that is	/	account of Newfoundland and Labrador Hydro.
8	currently under contact, Nalcor's, that's a	8	Hydro would pay for that energy and, of
9	shareholder's decision as to whether that	9	course, it's saving fuel at Holyrood.
10	gets redirected back to rates.	10	BROWNE, Q.C.;
11	MR. JONES:	11	Q. How many transactions have you made to date
12	A. Yeah, I agree.	12	through the Maritime Link in an effort to
13	BROWNE, Q.C.:	13	displace fuel at Holyrood? Are you doing
14	Q. Can we take it through the purchases of	14	this daily, weekly, monthly?
15	power that you're making through the	15	MR. JONES:
16	Maritime Link for the use on the Island, how	16	A. Daily. Ever since the decision was made to,
17	does that work, generally?	17	that we needed to shore up the water
18	MR. JONES:	18	resources here in the Province, the
		19	instruction to the marketers, to the real-
19	A. So we currently have a contract in place		
19 20	between Nalcor Energy Marketing and	20	time traders and to the day-ahead traders
19 20 21	between Nalcor Energy Marketing and Newfoundland and Labrador Hydro that enables	20 21	time traders and to the day-ahead traders has been get whatever you can at the best
19 20 21 22	between Nalcor Energy Marketing and Newfoundland and Labrador Hydro that enables those purchases, so it enables Nalcor Energy	20 21 22	time traders and to the day-ahead traders has been get whatever you can at the best price that you can achieve.
19 20 21 22 23	between Nalcor Energy Marketing and Newfoundland and Labrador Hydro that enables those purchases, so it enables Nalcor Energy Marketing to go out into the market and	20 21 22 23	time traders and to the day-ahead traders has been get whatever you can at the best price that you can achieve.  BROWNE, Q.C.:
19 20 21 22	between Nalcor Energy Marketing and Newfoundland and Labrador Hydro that enables those purchases, so it enables Nalcor Energy	20 21 22	time traders and to the day-ahead traders has been get whatever you can at the best price that you can achieve.

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1	see, you go to the previous slide, Madam	1	the New England marketplace. We've brought
2	Clerk, "Electricity Market Participation",	2	in energy out of Ontario, shipped it across,
3	yes, there we go. This gives you some idea	3	we redirected our transmission rights
4	of where you're going looking for power, is	4	through Quebec to bring the energy from
5	that it?	5	Ontario, deliver it to New Brunswick,
6	MR. JONES:	6	through New Brunswick, Nova Scotia and onto
7	A. Correct.	7	the Island and there are occasions that we
8	BROWNE, Q.C.:	8	have actually brought recapture out of
9	Q. Okay. And how does it work specifically?	9	Labrador, through Quebec, through the
10	MR. JONES:	10	Maritime Provinces and onto the Island. So
11	A. Okay, so I can give you some examples of the	11	those are the transactions, those are the
12	transactions that we have done on Hydro's	12	decisions that are made each and every hour
13	behalf, so we negotiated a bi-lateral deal	13	of each and every day to achieve the
14	with Nova Scotia Power. I think that was in	14	greatest value.
15	March of this year, for a firm supply of	15	BROWNE, Q.C.:
16	energy for the month of March. I think it	16	Q. So if you buy on the market—we're told
17	was, I'm going to say 100 megawatts, I can't	17	market prices are 2.4, 2.5 cents US a
18	remember if it's 100 megawatts all hours	18	kilowatt. Can you buy at that price?
19	with an additional 50 over the peak hours,	19	MR. JONES:
20	or the other way around, but there was a	20	A. So we've bought as low as zero.
21	substantial amount of energy that was	21	BROWNE, Q.C.:
22	brought in during the month of March and	22	Q. So you bought as low as zero when Ontario
23	that was enabling the earlier shutdown of a	23	were unloading a lot of power, they had
24	unit at Holyrood. In 2019, so far over the	24	excess in their nuclear facilities.
25	Labrador Island Link earlier this year,	25	MR. JONES:
	Eustador Island Enik carner uns year,		
	Daga 150		
	Page 150		Page 152
1	before the link was taken out of service,	1	Page 152 A. Ontario and we also see that in New England,
1 2	before the link was taken out of service, there was 215 gigawatt hours of energy	1 2	Page 152  A. Ontario and we also see that in New England, so when we talk about prices and market
1 2 3	before the link was taken out of service, there was 215 gigawatt hours of energy brought down over the Labrador Island Link	1 2 3	A. Ontario and we also see that in New England, so when we talk about prices and market prices, there is not one set market price.
1 2 3 4	before the link was taken out of service, there was 215 gigawatt hours of energy brought down over the Labrador Island Link that was managed on behalf of Hydro by NEM.	1 2 3 4	A. Ontario and we also see that in New England, so when we talk about prices and market prices, there is not one set market price.  Market prices change literally every five
1 2 3 4 5	before the link was taken out of service, there was 215 gigawatt hours of energy brought down over the Labrador Island Link that was managed on behalf of Hydro by NEM. We purchased 92 gigawatt hours of energy	1 2 3 4 5	A. Ontario and we also see that in New England, so when we talk about prices and market prices, there is not one set market price.  Market prices change literally every five minutes.
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	before the link was taken out of service, there was 215 gigawatt hours of energy brought down over the Labrador Island Link that was managed on behalf of Hydro by NEM. We purchased 92 gigawatt hours of energy that was brought over the Maritime Link. Now of that 92 gigawatt hours of energy, some of it would have come from Nova Scotia, some of it from transactions with New Brunswick, so each and every day our traders are talking to their counterparts at Nova Scotia, their counterparts at New Brunswick Power, at Hydro Quebec, they're looking at the clearing markets in Ontario and the clearing markets in New England. New York is not really an alternative to bring it in over the Maritime Link, and we're making an assessment as to what counterparty was giving us the greatest value, basically who is giving us the energy at the cheapest price because that's what this is all about, is buying the energy at the cheapest price.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Ontario and we also see that in New England, so when we talk about prices and market prices, there is not one set market price.  Market prices change literally every five minutes.  (11:45 a.m.)  BROWNE, Q.C.:  Q. By the time it gets here, though, it's not a zero. You have to pay transmission charges through each jurisdiction.  MR. JONES:  A. Absolutely, yes.  BROWNE, Q.C.:  Q. And is there a premium that these jurisdictions are charging to bring electricity onto the Island? Emera and Nova Scotia would know that we need it to displace fuel at a certain price, do they charge a premium for transmitting that, to make sure that we're paying through the nose?  MR. JONES:
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	before the link was taken out of service, there was 215 gigawatt hours of energy brought down over the Labrador Island Link that was managed on behalf of Hydro by NEM. We purchased 92 gigawatt hours of energy that was brought over the Maritime Link. Now of that 92 gigawatt hours of energy, some of it would have come from Nova Scotia, some of it from transactions with New Brunswick, so each and every day our traders are talking to their counterparts at Nova Scotia, their counterparts at New Brunswick Power, at Hydro Quebec, they're looking at the clearing markets in Ontario and the clearing markets in New England. New York is not really an alternative to bring it in over the Maritime Link, and we're making an assessment as to what counterparty was giving us the greatest value, basically who is giving us the energy at the cheapest price because that's what this is all about, is buying the energy at the cheapest price.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Ontario and we also see that in New England, so when we talk about prices and market prices, there is not one set market price.  Market prices change literally every five minutes.  (11:45 a.m.)  BROWNE, Q.C.:  Q. By the time it gets here, though, it's not a zero. You have to pay transmission charges through each jurisdiction.  MR. JONES:  A. Absolutely, yes.  BROWNE, Q.C.:  Q. And is there a premium that these jurisdictions are charging to bring electricity onto the Island? Emera and Nova Scotia would know that we need it to displace fuel at a certain price, do they charge a premium for transmitting that, to make sure that we're paying through the nose?  MR. JONES:

Page 153 Page 155 public, I think it's redacted before the 1 capacity is 100 megawatts, we will go out 1 2 Board because these are highly sensitive or 2 and seek contracts up to 100 megawatts. 3 commercially sensitive contracts. 3 BROWNE, Q.C.: 4 BROWNE, O.C.: 4 Is there less availability during the winter O. 5 Yes, and I can appreciate that, so you're 5 months? 6 paying less than what the cost of fuel would 6 MR. JONES: 7 be at Holyrood, but sometimes it's not that 7 Generally speaking, yes, because Nova Scotia A. 8 much less and certainly not the 2.3 cents or 8 and New Brunswick and Newfoundland and zero cents that's offered -9 9 Labrador, we're all winter peaking 10 MR. JONES: 10 jurisdictions. BROWNE, O.C.: 11 It's always substantially less than 11 A. Holyrood. 12 12 And, of course, Holyrood doesn't operate for 13 BROWNE, Q.C.: 13 the most part during the summer months. 14 O. But it's substantially less. 14 MR. JONES: 15 MR. JONES: 15 Not historically, no. A. 16 A. Yes. 16 BROWNE, Q.C.: BROWNE, Q.C.: 17 17 Not historically. So this particular 18 Okay. Well we're in a dilemma, so we can't 18 winter, is there any other restraints to bringing power onto the Avalon via the 19 get electricity down through the Maritime 19 Link, we have a software problem and we need Maritime Link, are there transmission 20 20 21 to buy fuel at Holyrood for this winter. 21 inhibitions there as well on the Island? 22 22 How much power do you think that you could MR. JONES: purchase to compete with the thermal energy 23 23 Not to bringing it in from the Maritimes. A. 24 which have to be built there, can you 24 BROWNE, Q.C.: 25 displace most of that or what's the plan 25 So conceivably you could bring in 300 if 300 Ο. Page 154 Page 156 1 here? 1 were available and bring it all the way onto 2 MR. JONES: 2 the Avalon? 3 I don't think we can displace most of that 3 MR. JONES: 4 and Jennifer, I'll make a statement and ask 4 It would be dependent upon what the A. 5 5 you to weigh in on it, but Holyrood is a 300 Newfoundland and Labrador system operator 6 plus megawatt plant. The current capacity 6 identifies as a constraint on the Maritime 7 of the Maritime Link is quite substantially 7 Link for import capacity. 8 less than that, so there are – 8 BROWNE, Q.C.: 9 BROWNE, O.C.: 9 In reference to the traders themselves, we Q. 10 What is the capacity of the Maritime Link, 10 see here in the trading agreements that there have to be authorizations and permits it is less than 300? 11 11 MR. JONES: 12 to participate into various markets. Nalcor 12 Full capacity of the Maritime Link is 500 Energy Marketing has authorizations, permits 13 13 A. 14 megawatts, either direction, but that's 14 to participate. These permits and 15 after all of the projects are complete and 15 authorizations, they rest with whom? Who 16 all of the system upgrades are complete here 16 gets the permits and authorizations? on the Island and in Labrador. Currently I MR. JONES: 17 17 18 think we're at about 100 megawatts in a 18 Nalcor Energy Marketing. A. 19 given hour for an import capacity, I can't 19 BROWNE, O.C.: 20 recall offhand, depending on the number of 20 And Nalcor Energy Marketing, the various 21 units that are on it, Holyrood and stability other significant permits, it has an NEB 21 22 of the system, the Newfoundland and Labrador 22 export permit that will rest with? 23 system operator identifies and sets the 23 MR. JONES: 24 capacity on the Maritime Link, and basically 24 A. Nalcor Energy Marketing. 25 what we do is we react to that. So if the 25 BROWNE, Q.C.:

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1	Q. And what do these permits all cost? Do they	1	counterparties.
2	cost –	2	BROWNE, Q.C.:
3	MR. JONES:	3	Q. Who is a guarantor of the letter of credit?
4	A. Incidental, a few hundreds.	4	MR. JONES:
5	BROWNE, Q.C.:	5	A. So there's two elements, in some cases
6	Q. Hundreds, okay. So the traders themselves,	6	Nalcor parent has provided a parental
7	the people you have working, do they require	7	guarantee to Nalcor Energy Marketing and
8	any kind of bonding or permit or license to	8	that sits with the counterparties and we
9	deal with the markets?	9	also have a credit facility, basically we
10	MR. JONES:	10	have a credit facility with the bank and we
11	A. They do not. They have to be authorized by	11	post credit on the strength of that credit
12	the trading entity, so we notify each of the	12	facility.
13	markets who is authorized to transact on our	13	BROWNE, Q.C.:
14	behalf.	14	Q. How much money are we talking generally, 10,
15	BROWNE, Q.C.:	15	15, 100 million? What would be out there at
16	Q. In reference to your participation in it,	16	a given time?
17	does there have to be some kind of letter of	17	MR. JONES:
18	credit or does there have to be some	18	A. A couple of million dollars.
19	guarantee that Nalcor Energy Marketing puts	19	BROWNE, Q.C.:
20	up in reference to these matters?	20	Q. A couple of million.
21	MR. JONES:	21	MR. JONES:
22	A. Absolutely, there's big volumes of energy or	22	A. Yeah, a couple of million in credit, in
23	big volumes of dollars going both	23	letters of credit.
24	directions, so we have to post credit with	24	BROWNE, Q.C.:
25	counterparties from which we are buying so	25	Q. Now, can losses be incurred? You're into
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1	we would be in arrears on some of—or not	1	trading and we all watch our stock market,
2	arrears, but we would be owing money for	2	it's not always good news out of there.
3	energy that we have purchased, so obviously	3	Have you incurred losses and if so, how have
4	those counterparties wished to be protected	4	these losses been incurred?
5	against our defaults and the other way	5	MR. JONES:
6	around, so whenever we are buying energy	6	A. Occasionally we have incurred losses.
7	from counterparties—excuse me, when we're	7	Typically, because we are delivering
8	buying energy from New Brunswick, we have to	8	physical product, so we are delivering
9	post credit with New Brunswick. When we're	9	physical energy that we own, we're not
10	selling energy to New Brunswick, they post	10	speculating, so we're not taking spreads
11	credit with us, for example.	11	between markets or anything like that. To
12	BROWNE, Q.C.:	12	the extent that our transactions get
13	Q. So the posting of credit is a commercial	13	interrupted, then we still have to, we are
14	transaction done by way of letter of credit	14	still bound by the contracts that we have
15	or how is it done?	15	entered into, so for example, yes, I think
16	MR. JONES:	16	it was last year there was a fairly
17	A. The commercial, it's through the enabling	17	substantial transmission outage in Quebec,
18	agreements, so we posted credit with New	18	so we had transactions that we had committed
19	York, New England, our various	19	a day-ahead basis to New York state, so the
20	counterparties, New Brunswick, OPG, Nova	20	New York system operator. When you enter
21	Scotia Power, et cetera, et cetera, and we	21	into a contract, a firm contract, it's
22	have letters of credit from each of those	22	called financially firm, so when that flow
23	entities and it's all related to the amount	23	of energy gets disrupted, the market will
24	of the volume of transactions that we do and	24	fill the void, so if we said that we are
25	the credit worthiness of the various	25	going to supply 100 megawatts to New York

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1	state and the transmission system in Quebec	1	directors and in the Nalcor's Treasury and
2	went out for any reason, then we still, as	2	Risk Management or Treasury Department
3	far as the market is concerned, we are still	3	actually goes out and executes those trades.
4	delivering that energy and they are still	4	BROWNE, Q.C.:
5	going to pay us what they agreed to pay us	5	Q. The Treasury Department. So the financial
6	for that energy, but of course, we're not	6	people who come on to testify, they'll be
7	delivering it, so the market makes up the	7	able to speak to that?
8	whole and then we pay the market whatever	8	MR. JONES:
9	the market provided on our behalf. So what	9	A. I'm sure they would, yeah.
10	happens is is that if the contract that we	10	BROWNE, Q.C.:
11	entered into, sometimes when you get a	11	Q. What is hedged? Is it the profits that
12	disruption, our day-ahead contracts are	12	you're getting from -
13	*	13	MR. JONES:
I	settled by the real-time markets. If the	13	
14	real-time market is actually cheaper than		A. Typically there's two main – actually, three
15	the day-ahead market, when we don't deliver	15	main elements of hedging that we enter into.
16	we actually make money. But, of course,	16	One is congestion management, so we talked
17	when you get disrupted, generally speaking	17	about that before, and we buy contracts to
18	there is an interruption in supply which	18	back up our physical positions, so that
19	means that the market is now under supplied	19	would be a market transaction to make sure
20	and prices go up. So typically in those	20	that we have a path to market, but the more
21	cases when it's due to an interruption of	21	traditional hedges which you're speaking
22	supply, the real-time market will increase	22	about, I believe, are commodity hedges. So
23	in price because the local market is calling	23	we would enter into transactions to secure
24	upon the resources in its local area that	24	income streams from a certain portion of our
25	area generally more expensive than the	25	deliveries into various markets, and foreign
	Page 162		Page 164
1	imports that have been previously	1	exchange hedges as well, and the same thing
2	contracted, and then we pay the market	2	depending on the amount of energy that we
3	whatever they supplied on our behalf. So	3	forecast that we're going to be delivering
4	the losses that we have incurred are, you	4	into the United States, and the amount of US
5	know, a few thousands of dollars, but	5	dollars that we have coming back, the
6	typically they're due to system events.	6	corporation at the corporate level may
7	BROWNE, Q.C.:	7	decide that we want to limit our exposure on
8	Q. Just talking about thousands in losses, not	8	foreign exchange, and then the Treasury
9	millions.	9	Department would enter into foreign exchange
10	MR. JONES:	10	contracts.
			Contracts.
11	A. Oh, it's definitely not millions. We have	11	BROWNE, Q.C.:
11 12	A. Oh, it's definitely not millions. We have done a number of analyses as to what our	11 12	BROWNE, Q.C.: Q. Have there been losses incurred through the
11 12 13	A. Oh, it's definitely not millions. We have done a number of analyses as to what our maximum exposure is and it is nowhere close	11 12 13	BROWNE, Q.C.: Q. Have there been losses incurred through the hedging process?
11 12 13 14	A. Oh, it's definitely not millions. We have done a number of analyses as to what our maximum exposure is and it is nowhere close to the millions.	11 12 13 14	BROWNE, Q.C.: Q. Have there been losses incurred through the hedging process? MR. JONES:
11 12 13 14 15	A. Oh, it's definitely not millions. We have done a number of analyses as to what our maximum exposure is and it is nowhere close to the millions.  BROWNE, Q.C.:	11 12 13 14 15	BROWNE, Q.C.: Q. Have there been losses incurred through the hedging process? MR. JONES: A. I believe, yes.
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11 12 13 14 15 16 17	<ul> <li>A. Oh, it's definitely not millions. We have done a number of analyses as to what our maximum exposure is and it is nowhere close to the millions.</li> <li>BROWNE, Q.C.:</li> <li>Q. And I saw somewhere you're into hedging as well?</li> </ul>	11 12 13 14 15 16 17	BROWNE, Q.C.: Q. Have there been losses incurred through the hedging process? MR. JONES: A. I believe, yes. BROWNE, Q.C.: Q. Do you know the amount, is it thousands?
11 12 13 14 15 16 17 18	<ul> <li>A. Oh, it's definitely not millions. We have done a number of analyses as to what our maximum exposure is and it is nowhere close to the millions.</li> <li>BROWNE, Q.C.:</li> <li>Q. And I saw somewhere you're into hedging as well?</li> <li>MR. JONES:</li> </ul>	11 12 13 14 15 16 17 18	BROWNE, Q.C.:  Q. Have there been losses incurred through the hedging process?  MR. JONES:  A. I believe, yes.  BROWNE, Q.C.:  Q. Do you know the amount, is it thousands?  MR. JONES:
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11 12 13 14 15 16 17 18 19 20	<ul> <li>A. Oh, it's definitely not millions. We have done a number of analyses as to what our maximum exposure is and it is nowhere close to the millions.</li> <li>BROWNE, Q.C.:</li> <li>Q. And I saw somewhere you're into hedging as well?</li> <li>MR. JONES:</li> <li>A. Hedging is done, but it's done at the direction of the board of directors. So</li> </ul>	11 12 13 14 15 16 17 18 19 20	BROWNE, Q.C.: Q. Have there been losses incurred through the hedging process? MR. JONES: A. I believe, yes. BROWNE, Q.C.: Q. Do you know the amount, is it thousands? MR. JONES: A. I can't recall offhand. We haven't hedged any significant volumes in the last couple
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11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>A. Oh, it's definitely not millions. We have done a number of analyses as to what our maximum exposure is and it is nowhere close to the millions.</li> <li>BROWNE, Q.C.:</li> <li>Q. And I saw somewhere you're into hedging as well?</li> <li>MR. JONES:</li> <li>A. Hedging is done, but it's done at the direction of the board of directors. So Nalcor Energy Marketing does not hedge on a real-time day-to-day basis. Hedging is</li> </ul>	11 12 13 14 15 16 17 18 19 20 21 22	BROWNE, Q.C.:  Q. Have there been losses incurred through the hedging process?  MR. JONES:  A. I believe, yes.  BROWNE, Q.C.:  Q. Do you know the amount, is it thousands?  MR. JONES:  A. I can't recall offhand. We haven't hedged any significant volumes in the last couple of years.  BROWNE, Q.C.:

Page 165 Page 167 Nalcor lost nearly 67 million dollars in 1 recall, the 300. If there's low growth in 1 2 hedging when the second loan guarantee was 2 Labrador, that would affect possibly the 3 being negotiated due to a timing issue, and recall? 3 4 even though Nalcor said it was normal and 4 MS. WILLIAMS: 5 prudent, I'm sure a lot of rate payers out 5 We would have to do a study on how we would A. 6 there would take exception to that language. 6 supply whatever the magnitude of load that 7 So in terms of hedging and what goes on 7 does become firm and absolute. 8 there, the questions that we can put in 8 BROWNE, Q.C.: 9 reference to that would be to the financial 9 There's talk of mines opening and new mines 10 people? 10 coming on, and an analysis that's been done MR. JONES: 11 11 of all that. 12 A. The financial folks, but I will say that, 12 MS. WILLIAMS: 13 you know, a hedge is not a instrument to 13 When things become more firm, we have to do the analysis of exactly how we're going to 14 make or lose money. It is an instrument to 14 protect an income stream just like buying source, but from a transmission capacity and 15 15 from a generation capacity perspective, we 16 insurance. 16 17 would have to understand what is a least 17 BROWNE, O.C.: 18 18 Any electricity that's brought through cost solution to supply those kinds of during the winter and to displace fuel, how 19 19 customers. is that being accounted for and reported to 20 20 BROWNE, Q.C.: the regulator that fuel has been displaced, 21 21 So if recall is to be used in Labrador, it 22 and, therefore, that budgetary item would 22 can't be used for the island or for sale, so have to be corrected accordingly? Is there 23 23 the growth in Labrador may affect that part 24 a mechanism for that? 24 of the economics of our whole regime? 25 MS. WILLIAMS: 25 MS. WILLIAMS: Page 166 Page 168 1 A. Obviously, in our test year, we would 1 A. Correct. 2 include what we expect to bring down for 2 BROWNE, Q.C.: 3 economic displacement of Holyrood fuel. So 3 Mr. Haynes, when you mentioned refurbishing 4 through that process, it gives a visibility 4 at CF(L)co, the refurbishing that's 5 5 to the Board of what we expect, and then on undertaken up there by CF(L)co, who pays the employees for the refurbishing? Does that 6 a monthly basis we are reporting the actual 6 7 deliveries, and also goes in our quarterly 7 come out of CF(L)co or come out of Hydro 8 report to the Board on the actual 8 directly? 9 deliveries. 9 MR. HAYNES: 10 BROWNE, Q.C.: 10 There's no impact on Newfoundland and 11 In reference to a question Mr. Fitzgerald 11 Labrador Hydro as we invest in Churchill. asked you, he asked you about the load on Hydro for the recapture contract is .2 cents 12 12 the island. On the island there doesn't per kilowatt hour. That doesn't change no 13 13 14 appear to be much by way of growth, and 14 matter what we spend in Churchill. The only 15 dependent on what appears on the scene. Is 15 other income besides from Hydro-Quebec for 16 the same true of Labrador? 16 the power contract and the guarantee MS. WILLIAMS: 17 availability contract is a TwinCo block, and 17 18 I think Labrador probably has a little more 18 basically that is approximately 2.2 cents A. activity with regards to things that are right now and that can change – any of the 19 19 20 building up up in Labrador. So I think it 20 components can change annually, I think, by 21 is definitely a different market at this 21 half CPI, something like that. It's a 22 point. 22 modest change, and that's it. 23 BROWNE, Q.C.: 23 BROWNE, Q.C.: 24 O. So in Labrador, the source of electricity 24 O. So any Hydro employees working up there are there would be the TwinCo block 225, and the paid through CF(L)co? Is that the answer? 25 25

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1	MR. HAYNES:	1	Hydro a bit, but that basically is a
2	A. There are no Hydro employees working there	2	contract that basically provides hydro power
3	as such on any of this upgrading work.	3	from Hydro-Quebec isolated system into this
4	There are costs to $CF(L)$ co based on the	4	(unintelligible - 32:45) of the Blanc Sablon
5	admin fees that come in from Nalcor and	5	– sorry, the L'Anse au Loup diesel plant.
6	Hydro for various services, but any	6	So it's an opportunity to save money. The
7	operations or capital upgrades that's all	7	only other contract that Nalcor has is with
8	self-contained within CF(L)co through its	8	Hydro-Quebec for the Menihek plant, which I
9	engineering or contractors. There's no pass	9	mentioned yesterday, to serve Schefferville
10	through that goes back to Hydro rate payers.	10	area and that's another isolated system.
11	BROWNE, Q.C.:	11	BROWNE, Q.C.:
12	Q. So what's being done at CF(L)co rests with	12	Q. In terms of Holyrood and mitigation and oil,
	• • • • • • • • • • • • • • • • • • • •		
13	CF(L)co?	13	what's the situation with Holyrood this
14	MR. HAYNES:	14	winter coming, are all the units ready to go
15	A. Yeah, it's pretty well self-contained, yeah.	15	or where are we with all of that?
16	(12:00 p.m.)	16	MS. WILLIAMS:
17	BROWNE, Q.C.:	17	A. Yes, all units will be available at their
18	Q. In terms of agreements with Hydro-Quebec,	18	capacity for this winter.
19	years ago there were some agreements in	19	BROWNE, Q.C.:
20	reference to Fermont and Blanc Sablon and	20	Q. They've all been refurbished? There was
21	reciprocation when power went down in terms	21	some refurbishing of units there. It's all
22	of Labrador City. Are those agreements	22	been completed?
23	still in place?	23	MS. WILLIAMS:
24	MR. HAYNES:	24	A. Yes, actually, I think there's a report
25	A. There is an agreement which is very rarely	25	being submitted to the Board today on winter
	Page 170		Page 172
1	used in a very limited capacity. There is a	1	readiness, so that should be further
2	46 or maybe 37 KV line – 46 KV line that	_	
) 2		2	discussed in that report.
1 3	leaves Wabush terminal station and it feeds	2 3	discussed in that report. BROWNE, Q.C.:
3 4		3	BROWNE, Q.C.:
4	Walsh's River area and then goes on to near	3 4	BROWNE, Q.C.: Q. So there are no issues at Holyrood for rate
5	Walsh's River area and then goes on to near Fermont, but it has a 10 or 12 megawatt	3 4 5	BROWNE, Q.C.: Q. So there are no issues at Holyrood for rate payers this winter to your knowledge?
4	Walsh's River area and then goes on to near Fermont, but it has a 10 or 12 megawatt capacity. It's more of an emergency supply	3 4	BROWNE, Q.C.: Q. So there are no issues at Holyrood for rate payers this winter to your knowledge? MS. WILLIAMS:
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Octob	er 10, 2019		Verbatim Court Reporters
	Page 173		Page 175
1	Q. Now you used the word "yet" in reference to	1	and maintained in reference to the
2	one aspect of transactions. Will there ever	2	operations of Nalcor Energy Marketing?
3	be a markup for that service?	3	MR. JONES:
4	MR. JONES:	4	A. The only time that Nalcor Energy Marketing
5	A. I don't know if I'd call it -	5	would be in the current regime using Hydro's
6	BROWNE, Q.C.:	6	reservoirs for its own use, so for Nalcor
7	Q. Is it in the plans?	7	Energy Marketing's use, would be under what
8	MR. JONES:	8	we call ponding. So it would be economic
9	A. I don't know if I'd call it a markup.	9	transactions that we buy energy out of the
10	Nalcor Energy Marketing will need to recover	10	marketplace when the prices are low and sell
11	its cost of this operation, and ultimately	11	when the prices are high.
12	it's providing a service to both Nalcor and	12	BROWNE, Q.C.:
13	to Hydro, and ultimately those customers	13	Q. So you're using ponding, you're using the
14	will be expected to pay those costs.	14	services of Hydro's reservoirs?
15	BROWNE, Q.C.:	15	MR. JONES:
16	Q. So rate payers will be expected to pay the	16	A. Right, to create value, and what's before
17	cost of bringing in the electricity as it	17	the Board here, we have an interim ponding
18	applies to -	18	agreement with Newfoundland and Labrador
19	MR. JONES:	19	Hydro in which all net proceeds that do not
20	A. Not on what's being brought in.	20	include any markups or any costs pass
21	BROWNE, Q.C.:	21	through from Nalcor Energy Marketing, so all
22	Q. Right now?	22	net proceeds of ponding activities are
23	MR. JONES:	23	resting in a deferral account and the
24	A. Not right now. The long term agreement	24	disposition of that deferral account will be
25	which we've referenced on a number of	25	subject of a future hearing here at the
	Page 174		Page 176
1	occasions which would have been brought	1	Board, or a future application to the Board.
2	before the Board here, will contain all of	2	BROWNE, Q.C.:
3	those items.	3	Q. Thank you very much. I thank the panel and
4	BROWNE, Q.C.:	4	members of the panel for your answers and
5	Q. So the Board will be dealing with all these	5	your forthrightness. Thank you.
6	matters?	6	MR. JONES:
7	MR. JONES:	7	A. You're welcome.
8	A. Absolutely, but in the interim until that	8	CHAIR:
9	happens, Nalcor Energy Marketing is not	9	Q. Thank you, Mr. Browne. Mr. Coxworthy.
10	charging any fee for the services it's	10	MR. COXWORTHY:
11	providing to Newfoundland and Labrador	11	Q. Thank you, Madam Chair and Commissioners.
12	Hydro.	12	Good afternoon. Paul Coxworthy for the
13	BROWNE, Q.C.:	13	Island Industrial Customer Group. I'd like
14	Q. In terms of storage and so on, Nalcor Energy	14	to start with some evidence of Mr. Marshall,
15	Marketing is using reservoirs?	15	and if we could – well, I don't know if we
16	MR. JONES:	16	need to turn to it, but in the course of his
17	A. Correct.	17	presentation at page 13 of Mr. Marshall's
18	BROWNE, Q.C.:	18	evidence on October 8th, he spoke to the cost
19	Q. And the reservoirs owned by Hydro?	19	of regulation that was, as he put it, a
20	MR. JONES:	20	direct cost assigned to us, Regulatory
21	A. Correct.	21	Affairs, in 2015 was 14 million dollars, and
22	BROWNE, Q.C.:	22	his comment that followed on that, this is
23	Q. And so is Hydro charging anything to Nalcor	23	at line 16 to 20 on page 13, "Hydro had not
24	Energy Marketing for the use of its	24	been doing a good job". So he seemed to be
25	reservoirs which rate payers have paid for	25	attributing at least some of that cost to
	* * *		-

Page 177 Page 179 his assessment that Hydro had not been doing 1 room to grow, still a lot of accountability 1 2 a good job. These questions, or the 2 and transparency that we have to provide, 3 3 questions that I'm going to follow up on, but I do believe that we have made good 4 given that context, I think are directed 4 strides. 5 primarily to Ms. Williams, both in her 5 MR. HAYNES: 6 present and past capacities with Hydro, and 6 If you don't mind, if I could, certainly Α. 7 Mr. Haynes as well to the extent that he 7 when the move was made to, I think the term 8 would have some insight, I believe, into 8 used, ring fence Hydro", when I came back 9 Hydro operations in some of these years. 9 that was in progress and we went from there. 10 Has there been, from your perspective – I 10 The amount of attention, and not diluting 11 think Mr. Marshall was hoping that the Board 11 other things that were on the go, was a big 12 had hoped that he had seen an improvement, 12 positive actually helping that process, and 13 but from Hydro's perspective, has there been I agree with Jennifer, I think they made 13 14 an improvement, has Hydro strived to bring 14 great strides from that perspective because 15 an improvement to its dealings with the 15 I remember testifying at the last GRA, I don't remember the question, but I wasn't 16 Board in the regulatory – 16 17 MS. WILLIAMS: 17 worried about the engineering folks spending I can certainly take that first. It 18 18 50 percent of their time on a Nalcor issue 19 absolutely has been an interest of it, and 19 and 50 percent on Hydro, they were 150 20 certainly in my past capacities it has been 20 percent dedicated to Hydro, period, and full 21 my intention to provide for that better 21 focus of all Hydro people was on the 22 22 relationship with the Board and to be more regulatory part and what their mandate was. responsive, and listen to the Board, and not There was no dilution with other activities 23 23 24 24 just the Board, but certainly the of Nalcor. It was taking care of itself, 25 25 interveners, the things that are part of and there was a lot more opportunity to do a Page 178 Page 180 1 their inputs to all the various filings. 1 better job. 2 It's been a very concerted effort and, you 2 MR. COXWORTHY: 3 know, a philosophy that I have held. If I 3 Thank you. So is it the assessment – I 4 can use sort of a couple of examples, I 4 guess, I would ask Ms. Williams, are the 5 5 mean, I think the most recent example that regulatory costs that Hydro is incurred now 6 would show an improvement in the efforts 6 vis-à-vis the processes of this Board, and 7 over the past few years to work better with 7 I'm excluding the Commission of Inquiry and 8 all the parties and the interveners is the 8 the forensic audits that were referred to by 9 cost of service that was just negotiated as 9 Mr. Marshall, they're not part of this 10 opposed to a hearing. I think when we were 10 Board's regulatory function, and I recognize doing our plans for that process, we the cost to Hydro and Nalcor in dealing with 11 11 expected it could be as much as a couple of this costs, stresses, whatever you want to 12 12 put it, but it's not part of the regular 13 week hearing, just like we're seeing here, 13 14 and, you know, with the parties involved and 14 regulatory framework. So has the cost of 15 15 then with the Board's approval, we're serving that regular, the normal regulatory 16 avoiding a hearing all together and it's 16 framework, in recent years, has it cost too been a negotiated process. That's a very much in Hydro's perspective? 17 17 18 current example of a number of years of 18 MS. WILLIAMS: 19 focus of working on that regulated process. 19 No, I feel the costs are appropriate. I A. If we go back a number of years, the 20 20 sometimes characterize it as it's an 21 Prudence Review that we had to go through 21 additional financial management. It 22 was very lengthy. Just all of the outcomes 22 certainly provides for us additional focus 23 of the outage inquiry was quite a bit of 23 internally, and I don't think the costs that 24 work. So I believe we're in a much better 24 we're currently bearing is inappropriate. 25 place today, room to grow, still lots of 25 On an expected basis, I think we're in the

Page 181 Page 183 range of 4 to 5 million. These larger things 1 know, I think there was a mix of things that 1 2 are certainly the anomalies, appropriately 2 could be done through PUB, also some social 3 executed, but I think that's in the range 3 policy issues because, you know – I told the 4 that we would expect on a routine year with 4 people who report to me, I'm not worried about them, but it's the people who are on 5 a GRA or something like that. Every year 5 you're going to have something. Especially 6 6 minimum wage who need help, you know, and 7 in the next few years we're going to have, I 7 other people don't need help, and obviously 8 8 think, some pretty significant files to the industrial customers, you know, industry 9 9 bring before the Board, so we are still has to be sustained. It's a complicated 10 going to have some of these bigger ones, but 10 question and it all requires a look and a on a routine basis, it's not prohibitive. deep dive on the way best to affect an 11 11 12 MR. COXWORTHY: 12 outcome that works for the province 13 Sure, it's reasonable to expect in any given 13 primarily. 14 year, but certainly for the near future 14 MR. COXWORTHY: 15 you'll have your annual capital budget. 15 And in your view, having that look before Q. this Board, is that value added or that 16 That's always a given, and probably one 16 other thing, some of which may be somewhat 17 17 doesn't help? 18 predictable in terms of timing and scope, 18 MR. HAYNES: 19 I think it helps. I think it helps. I 19 some of it perhaps not? 20 mean, it all has to be done because rate MS. WILLIAMS: 20 21 Correct. 21 mitigation is there, but there is a huge 22 22 MR. COXWORTHY: issue for the provincial government to deal with from the point of view of what is the 23 But certainly that's been the case over the 23 Q. 24 24 past years, and I would agree that that's a policy and what is the mandate from that 25 reasonable expectation going forward. In 25 perspective. Page 182 Page 184 1 terms of the rate mitigation reference and 1 MR. COXWORTHY: 2 the work that Hydro and Nalcor has been 2 Ms. Williams, anything you want to add to Q. 3 asked to do to respond to the Board's 3 that? 4 inquiries, is that money well spent from 4 MS. WILLIAMS: 5 5 both a Nalcor and a Hydro perspective, or to I agree, and I think part of your question A. 6 put it another way, is it money that you 6 was, would you have been doing it, anyway, 7 would have had to have spent anyway to 7 and I do believe that is the case. However, 8 address the rate mitigation issue, even if 8 when you have a different group come in and 9 the Board had not been given this reference? 9 ask you questions certainly the way that 10 MR. HAYNES: 10 Liberty did, and especially for me where I 11 My personal view is, yes, it is money well was new in the role, and I don't have the 11 12 spent. I mean, I think it's long recognized same history as Mr. Haynes would, I got to 12 that rate mitigation is an issue, and there know a lot of good things about Hydro, but I 13 13 14 was a committee established, a Rate 14 also, again through the types and minds of 15 15 questioning that Liberty would have provided Mitigation Committee, primarily the Department of Natural Resources, so a fair 16 16 and as we were developing our own evidence, bit of energy and things looked at, and I it provided for me that spotlight that 17 17 18 know that some of the finance folks can 18 additional extra deep focus on where we can 19 maybe comment a bit more, but there was a 19 indeed improve. So would we have gotten to 20 deep dive taking all kinds of things, 20 the exact same conclusions and commitments 21 21 electrification, you know, how much revenues that we're making today, perhaps; it 22 or dividends or whatever get plowed back to 22 certainly has been beneficial. 23 help that. So it's been ongoing, and 23 (12:15 p.m.) 24 unavoidable. I mean, it is a must, and the 24 MR. COXWORTHY: 25 other part, I think, in our report, you 25 Thank you, Ms. Williams. I wanted to move

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1	on to Nalcor's mandate. There's been much	1	A. No, I agree with Jim.
2	said by some of the experts who have already	2	MR. COXWORTHY:
3	given testimony or their presentations,	3	Q. Okay. So to explore further the mandate of
4	their evidence, however you want to	4	Nalcor and what it means in terms of your
5	characterize it, to the Board. Mr. Marshall	5	decision-making, you made a distinction
6	spoke about Nalcor's mandate and the	6	there, Mr. Haynes, I think a fairly black
7	importance of the Nalcor organizational	7	and white distinction between unregulated,
8	structure serving the mandate that its been	8	not necessary to serve Hydro customers. I
9	given by government. I think he put	9	mean, they might get a benefit, obviously,
10	particular emphasis on that, and I'm going	10	to the extent rate payers are also tax
11	to paraphrase the Nalcor mandate, but please	11	payers in the province, etc., but not
12	correct me if you think I'm being unfair in	12	directly necessary to serve their electrical
13	my paraphrasing it, "It's to maximize	13	needs, and then regulated, and that is the
14	benefits to the province from the	14	costs that are necessary to provide
15	unregulated Hydro electric resources in the	15	electrical service to people in the
16	province".	16	1 1
17	MR. HAYNES:	17	province. MR. HAYNES:
18		18	A. Uh-hm.
			MR. COXWORTHY:
19	be done that the rate payer doesn't need –	19	
20	that Newfoundland Hydro doesn't need. When	20	Q. That's the dividing line. Of course, there
21	Hydro goes down to its load forecasting of	21	is a middle category – I'll call it a middle
22	capacity and energy, they will identify	22	category that exists now in this province,
23	requirements and needs. If there are	23	which is the Muskrat Falls assets, which at
24	developments there that Hydro has that can	24	least are in part necessary to serve the
25	do that, then they will, obviously, stand	25	customers, but there's also a decision been
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1	the scrutiny of the Public Utilities Board,	1	made at policy level to be unregulated. So
2	as they should. If there are projects that	2	there's that middle – would you agree that
3	are absolutely outside that, that are for	3	that's a middle ground between the –
4	export potential and monetization value to	4	MR. HAYNES:
5	the province, they will be unregulated.	5	A. It is a middle ground, and under the current
6	That doesn't mean they don't interact with	6	construct is unregulated, yes. It's in the
7	Hydro from a transmission point of view. We	7	middle. It was primarily done to offset
8	need some of their resources from a	8	Holyrood, so there was over capacity, and I
9	transmission planning perspective to say	9	think the Maritime Link was an avenue to
10	what can and can't be done, what's the right	10	monetize that a bit better than through
11	voltage level, and things like that from an	11	Quebec. I think it was all well purposed at
12	optimization point of view, and I would also	12	the time. Unfortunately, things have
13	suggest that there would always be a look as	13	changed a bit on the cost and so on.
14	to what does this mean for Hydro down the	14	MR. COXWORTHY:
15	road. You know, whether there will be a	15	Q. I don't want to revisit the wisdom of the
16	recall provisions or whatever and some of	16	decision. That's not my intent.
17	those things later on, I don't think that	17	MR. HAYNES:
18	can be left off the table either, but,	18	A. No, no, it is done.
19	obviously, there's a lot of discussion and	19	MR. COXWORTHY:
20	negotiation before you get an off-taker to	20	Q. Just to identify that there is that middle
21	justify building another project.	21	category of asset.
22	MR. COXWORTHY:	22	MR. HAYNES:
23	Q. Ms. Williams, before I follow up, anything	23	A. There is a middle category.
	,,, wp, will will be		
	vou wanted to add to that?	24	MR. COXWORTHY:
24 25	you wanted to add to that? MS. WILLIAMS:	24 25	MR. COXWORTHY: Q. But Nalcor's pure mandate, if I can call it

Page 189 Page 191 that, you know, let's leave aside Muskrat 1 opportunities to upgrade the plant. As, and 1 2 Falls for a moment, you know, maximizing 2 I'll go back to in the mid-80s, the Bay 3 exports from power that isn't necessary to 3 d'Espoir plant was upgraded. There were new 4 provincial customers, new hydro developments 4 runners put in there for various reasons and 5 if there's an opportunity for those that 5 there was, I think primarily an energy 6 aren't going to put risk on the people of 6 efficiency improvement there, as opposed to 7 the province, the rate payers, and I'd say 7 megawatts. But you know, when the 8 even further perhaps maximizing generation 8 specialists design a runner, they can 9 9 from existing hydro assets. Is that – you optimize it different ways, depending where the market is or what the value is or what 10 mentioned, for instance, with respect to 10 11 Churchill Falls, I thought – perhaps it was 11 you're looking for. 12 you, perhaps I'm thinking back to Mr. 12 MR. COXWORTHY: 13 Marshall, but I thought there's been some 13 And if the opportunities to increase the 14 evidence here that there might be an 14 amount of capacity energy that's available 15 opportunity to increase capacity in the 15 from Churchill Falls, if the decision is 16 future with respect to the Churchill Falls 16 made to proceed with those capital generation assets? 17 investments, none of that is going to come 17 18 MR. HAYNES: 18 back onto Hydro customers in terms of their 19 19 There are options in Churchill Falls to having to pay for any cost of that in rates? 20 20 Is that correct? increase capacity and energy, based on the 21 existing assets, with capital investment, 21 MR. HAYNES: particularly from the point of view of new 22 22 A. Under the current structure, no. With a runners. There's are different degrees. CF(L)Co. hat on, if they've added, you know, 23 23 24 24 And you could design a runner – sorry to tap 200 megawatts and, I just don't recall the 25 the microphone. You can design a runner for 25 energy amount off the top of my head, but Page 190 Page 192 1 maximum capacity. You can design a runner 1 let's say it's 200 gigawatt hours, for 2 to be more efficient or to generate more 2 instance. So that might have a different 3 energy. So, we have, last year, replaced 3 pricing structure and if it was sold to 4 one runner. 4 Hydro, that would be negotiated obviously 5 5 We did not finish the efficiency from that perspective. But to invest in the 6 testing. We kind of benchmarked, if you 6 plant right now and do all that there, based 7 will, the megawatts and energy additions 7 on Newfoundland Hydro's current take of Twin 8 that were added by that unit. We've done 8 Block and Recapture, there would be no 9 some preliminary testing, but the vendor had 9 impact on your rates because of that. 10 some issues with their modelling equipment 10 MR. COXWORTHY: 11 and it'll be redone next year to nail down 11 So, you know, I'd like to contrast that, what the efficiency curve is and what – how 12 12 hypothetically mind you, with the Muskrat many megawatts we actually got. But you Falls Project. And if at some future time 13 13 14 know, it is - it's not insignificant. I 14 it's determined by Nalcor, by Power Supply 15 15 think Mr. Marshall used 100. It's more like if that's the structure that's there now, 16 a couple hundred megawatts potential 16 that there are capital investments that obviously with a capital investment. 17 should be made to maximize generation from 17 18 And basically, right now in the Hydro 18 that asset or enhance generation from that 19 Quebec, as I understand it, they have 19 asset, are those costs that could or will be 20 energy. They have a fair bit of energy. 20 visited on Hydro's customers? 21 They stood a lot last year, but there's also 21 MR. HAYNES: 22 some capacity constraints that could add to 22 There's an obligation for Hydro to take Α. 23 that or onto Quebec or for Newfoundland and 23 power based on, you know, the current 24 Labrador load for that matter. 24 construct sustaining capital would require. 25 But it can be done. There are 25 But basically, the basis is all that's kind

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1	of locked down. If we were to – I don't	1	they could increase the LIL rating from, you
2	think we -	2	know, the 900 megawatts to 1200 megawatts
3	MR. COXWORTHY:	3	for export things that would not be to the
4	Q. Or hardwired, to use Mr. Marshall's -	4	repair. That incremental cost should
5	MR. HAYNES:	5	clearly be a Nalcor cost and not be
6	A. We could use that term, but if there were	6	transferred to the rate payer. So, I don't
7	provisions or a need to put in a fifth	7	think the issue to maintain the assets that
8	runner, for instance, at Muskrat, which I	8	we have built on, you know, basically for
	don't think there is because of the way it's	9	the 55-year period, from that perspective.
10	done, but if there was, that would be	10	MR. COXWORTHY:
11		11	
	completely outside of Hydro. That would be		Q. Perhaps to use a separate example, a
12	a separate issue. The Hydro rate payer	12	different example and not a hypothetical one
13	should not bear any cost for that.	13	this time. The software problems with
14	MR. COXWORTHY:	14	respect to the transmission system that
15	Q. So, is it your view that there can be a	15	we've been hearing about. Mr. Marshall
16	clear line made, in terms of future capital	16	spoke about he's going to be going to Europe
17	investments at Muskrat Falls, between what's		next week to gather information, hopefully
18	strictly necessary to serve the existing	18	get some good news about whether we're
19	agreements -	19	getting closer to a resolution there.
20	MR. HAYNES:	20	Now, I don't want to get into whatever
21	A. I think the intent -	21	contractual arrangements Nalcor has with GE
22	MR. COXWORTHY:	22	and who's responsible for cost overruns and
23	Q as opposed to what might be, you know,	23	the rest of that, but I do, at a high level,
24	something to pursue an export opportunity	24	want to ask. Is the delay and difficulties
25	generate some extra capacity or ability to	25	in solving that software problem, is it
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1 .			
1 1	dispatch from that – from Muskrat Falls,	1	-
$\begin{bmatrix} 1 \\ 2 \end{bmatrix}$	dispatch from that – from Muskrat Falls, additional export energy?	1 2	driving any costs to Nalcor that it may not
2	additional export energy?	2	driving any costs to Nalcor that it may not recover through its contractual arrangement
2 3	additional export energy? MR. HAYNES:	2 3	driving any costs to Nalcor that it may not recover through its contractual arrangement with GE or from some other source?
2 3 4	additional export energy? MR. HAYNES: A. The Hydro rate payer, the Island rate payer	2 3 4	driving any costs to Nalcor that it may not recover through its contractual arrangement with GE or from some other source?  MR. HAYNES:
2 3 4 5	additional export energy?  MR. HAYNES:  A. The Hydro rate payer, the Island rate payer should only be paying for the current assets	2 3 4 5	driving any costs to Nalcor that it may not recover through its contractual arrangement with GE or from some other source?  MR. HAYNES:  A. It depends on where it goes at the end of
2 3 4	additional export energy?  MR. HAYNES:  A. The Hydro rate payer, the Island rate payer should only be paying for the current assets that are designed and sustaining capital to	2 3 4	driving any costs to Nalcor that it may not recover through its contractual arrangement with GE or from some other source?  MR. HAYNES:  A. It depends on where it goes at the end of the day with respect to what they deliver
2 3 4 5 6 7	additional export energy?  MR. HAYNES:  A. The Hydro rate payer, the Island rate payer should only be paying for the current assets that are designed and sustaining capital to keep that going. If there's enhancements, I	2 3 4 5 6 7	driving any costs to Nalcor that it may not recover through its contractual arrangement with GE or from some other source?  MR. HAYNES:  A. It depends on where it goes at the end of the day with respect to what they deliver and there are two things that are – GE
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	Page 197		Page 199
1	MR. COXWORTHY:	1	solved is how do we get X amount of
2	Q. Do you -	2	megawatts from Muskrat Falls to the Avalon
3	MR. HAYNES:	3	Peninsula, to Soldier's Pond -
4	A. I will add -	4	MR. HAYNES:
5	MR. COXWORTHY:	5	A. Yes.
6	Q. I'm sorry, go ahead.	6	MR. COXWORTHY:
7	MR. HAYNES:	7	Q if that's the only issue that needed to be
		8	· · · · · · · · · · · · · · · · · · ·
8	A there are penalties with GE for the	ı	- the Maritime Link wasn't part that needed
9	reliability implications. They are under	9	to be factored in. If the LTA and its
10	the contract, basically under the contracts.	10	linkage through that to Quebec didn't need
11	They are allowed a bi-pole trip that's	11	to be factored in. If all we were worrying
12	deemed to be their fault I think once in	12	about is that lead line from Muskrat Falls,
13	every ten years. They are allowed a single	13	would the software problems be as complex?
14	pole fault I think five in a year. But the	14	MR. HAYNES:
15	system doesn't actually see that. It	15	A. I think the software – I don't think the
16	recovers from a – you know, that is one of	16	software problem is the root here. I think
17	the design principles there that's in the	17	that will be there no matter what.
18	contract and that is still there. But,	18	MR. COXWORTHY:
19	obviously they have to deliver that and they	ı	Q. No matter what?
20	will be held accountable.	20	MR. HAYNES:
21	If it actually gets to the point where	21	A. The software problem will be – there might
22	it's not workable and we require a capital	22	be little nuances of blocking or transfer
23	fix, I think that is, you know, I'll call it	23	trips, I can't remember the term exactly, or
24	sustaining capital. We need to get it to	24	things like that, but the overload
25	work.	25	
23		23	capability and making that software work is
,	Page 198	,	Page 200
	MR. COXWORTHY:	1	fundamental to making the DC line work. And
2	Q. It would be a cost that would be driven	2	whether the Maritime Link is there or the
3	towards Hydro's customers -	3	350Kv lines to Churchill are there, it
4	MR. HAYNES:	4	doesn't matter.
5	A. Yes.	5	
		]	MR. COXWORTHY:
6	MR. COXWORTHY:	6	MR. COXWORTHY: Q. You don't think that's -
		l .	
	MR. COXWORTHY:	l .	Q. You don't think that's -
6 7	MR. COXWORTHY: Q if a capital fix is necessary?	6 7	Q. You don't think that's - MR. HAYNES:
6 7 8	MR. COXWORTHY: Q if a capital fix is necessary? MR. HAYNES:	6 7 8	<ul><li>Q. You don't think that's -</li><li>MR. HAYNES:</li><li>A. It's fundamental.</li></ul>
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Octob	er 10, 2019		Verbatim Court Reporters
	Page 201		Page 203
1	consider in this reference. And one of them	1	A. It has impaired our nimbleness.
2	is Hydro. One of them is CF(L)Co. Muskrat.	2	MR. COXWORTHY:
3	Is another way of talking about them Power	3	Q. Can you give us an example?
4	Supply?	4	MR. JONES:
5	MR. JONES:	5	A. Yes.
6	A. Sure.	6	MR. COXWORTHY:
7	MR. COXWORTHY:	7	Q. Thank you.
8	Q. And then you've got the organization for	8	MR. JONES:
		9	
9	which you're responsible as sort of the		A. So, when we first contemplated the prospect
10	third. And is that how it works in	10	of ponding activities that we identified
11	practice? Is it really a three –	11	value opportunities that were available that
12	(12:30 p.m.)	12	we could arbitrage, basically by low, sell
13	MR. JONES:	13	high, but there was a requirement that Hydro
14	A. Absolutely. So, in practice, because	14	did not have the authority to sell to NEM to
15	CF(L)Co. and Muskrat are really not part of	15	enable those transactions. So, that
16	the equation just yet, you know, as it	16	required a process that was held before the
17	relates to supplying Island needs, it is	17	Board here and ultimately the project was
18	strictly between Hydro and NEM, but fully	18	approved and then the contract was approved
19	expect that Muskrat and CF will be involved	19	and we started executing on it. But,
20	in it.	20	opportunities were lost.
21	MR. COXWORTHY:	21	MR. COXWORTHY:
22	Q. And without going through all your evidence	22	Q. And what was your understanding of why it
23	or all the slides, you know, my	23	needed to be brought to the Board? What was
24	understanding is you were describing in	24	the concern?
25	terms of the work that Nalcor Energy	25	MR. JONES:
25		23	Page 204
1	Page 202 Marketing does is that there's a lot of	1	A. So, I can't speak for the lawyers, the many
1	interfacing directly with Hydro. So, not -		lawyers here in this room.
$\begin{bmatrix} 2 \\ 3 \end{bmatrix}$	MR. JONES:	2 3	MR. COXWORTHY:
1			
4		4	Q. If you don't know the answer to that, you
5	MR. COXWORTHY:	5	know, I don't want you to speculate.
6	Q. You don't need to go through Power Supply or	6	MR. JONES:
7	through some other Nalcor entity. You	7	A. I don't think Hydro had the authority to
8	interact directly, your people interact	8	sell to NEM under that construct.
9	directly with Hydro?	9	MR. COXWORTHY:
10	MR. JONES:	10	Q. Do you know or have any insight as to
11	A. Correct.	11	whether there would have been any concern at
12	MR. COXWORTHY:	12	Hydro's end, at the regulated end, as to
13	Q. And Hydro, as a regulated entity, has Nalcor	13	whether what was being proposed might impact
14	Energy Marketing been less nimble or	14	on the reliability of supply to Hydro's
15	impaired in its task by the fact that it	15	customers?
16	needs to deal with a regulated entity,	16	MR. JONES:
17	Hydro? Has that been your experience or the	17	A. It would certainly have been a conversation
18	experience of Nalcor Energy Marketing up to	18	between Hydro and NEM, but it would not have
19	this point?	19	been an impediment because it is a given.
20	MR. JONES:	20	It is a license to operate.
21	A. So, I would say yes.	21	MR. COXWORTHY:
22	MR. COXWORTHY:	22	Q. So, whatever ponding arrangements were put
23	Q. You would say yes, it has impaired your	23	in place, it would be a given that they
24	nimbleness?	24	could have no impact on reliability of
25	MR. JONES:	25	supply?
1 43	TITE FOLLD.	43	suppry.

MR. JONES:  A. Correct.  And what I'm referring to rewill be referring to is an extensive, I guess, quote the first of the property of the pro	1			•
2 A. Correct. 3 MR. COXWORTHY: 4 Q. And is that as proposed by yourselves and 1 llydro? 5 MR. JONES: 6 MR. DOXWORTHY: 9 Q. And going to the Board to confirm that; that was an impediment? 10 MR. COXWORTHY: 11 MR. DONES: 12 A. No, that wasn't the reason to go to the Board vas to get approval to sell to NEM. 11 was a technical limitation that we felt had to be closed. 17 MR. COXWORTHY: 18 Q. And did that take a long time to obtain that technical approval? 19 MR. JONES: 20 MR. COXWORTHY: 21 A. Six months, I think, something like that. 22 MR. COXWORTHY: 23 Q. Is that something that's going to be repeated in the future? 24 repeated in the future? 25 MR. JONES: 26 MR. JONES: 27 A. No. 28 MR. COXWORTHY: 39 Q. So, are there any other impediments of that sort that you see on the horizon in dealing with Hydro as a regulated entity that's going to long in pain the nimbleness of your or organization? 29 MR. JONES: 30 Q. So, are there any other impediments of that sort that you see on the horizon in dealing with Hydro as a regulated entity that's going to long the read that provided there. 31 A. No. 32 MR. COXWORTHY: 33 Q. So, are there any other impediments of that sort that you see on the horizon in dealing with Hydro as a regulated entity that's going to be establishes basically the rules of organization? 31 A. No. 32 MR. JONES: 33 between the construct that we have achieved or we have established so far, which is Hydro would be regulated as an impairment to NEM's ability to achieve value. 31 Page 206 32 Q. Is defered an impairment to NEM's ability to achieve value. 33 between the construct that the passage for you, Mr. Jones. "Reliability of service to Newfoundland customers will be Hydro's highest priority." 34 It was a tay to the Board to confirm that; that this passage was sufficiently important to the fight that this passage was sufficiently into the fact that Hydro or a passage l'Il say is but out the value of off-system transactions. The fact has a payen, the fact has a payen, the fact has a payen, the fact has a p	Ι.	=		
MR. COXWORTHY:   3   W. Hydro from Power Advisory's report because to the fact that Hydro or Nakor that as proposed by yourselves and Hydro?   4   didn't go to Power Advisory's report abecause to the fact that Hydro or Nakor thought in protest that Hydro or Nakor thought in the time that this passage was sufficiently important to highlight to the Board by putting it in their own evidence in the light that it's been provided there.   10   was an impediment?   10   was an impediment?   11   MR. JONES:   11   was a technical limitation that we felt had to be closed.   12   a   how to the Board to conflict, if I   can about the decisions Power Supply is going to have to make on a go-forward basis and reliability of supply to Hydro's and reliability of supply and the reliability of supply and the reliability of Hydro's and r	1			
4   G. And is that as proposed by yourselves and Hydro?   5   1   1   1   1   1   1   1   1   1	1			
5 Hydro? 6 MR. JONES: 7 A. Yes. 8 MR. COXWORTHY: 8 MR. COXWORTHY: 9 Q. And going to the Board to confirm that; that was an impediment? 10 was an impediment? 11 MR. JONES: 12 A. No, that wasn't the —that wasn't the reason to go to the Board was to get approval to sell to NEM. 15 It was a technical limitation that we felt had to be closed. 16 Board was to get approval to sell to NEM. 17 MR. COXWORTHY: 18 Q. And did that take a long time to obtain that technical approval? 18 Q. And did that take a long time to obtain that technical approval? 19 MR. JONES: 20 And Six months, I think, something like that. 21 A. Six months, I think, something like that. 22 MR. JONES: 23 Q. Is that something that's going to be expected in the future? 24 MR. JONES: 25 MR. JONES: 26 MR. JONES: 27 A. No. 28 MR. JONES: 29 A. No. 29 MR. JONES: 20 So, are there any other impediments of that soort that you see on the horizon in dealing with Hydro as a regulated entity that's sort that you see on the horizon in dealing with Hydro as a regulated entity that's a soft that you see on the horizon in dealing with Hydro as a regulated entity that's as a given, I don't see the fact that Hydro whole passage, but the passage and I'm going to read the last couple of sentences. And one of them talks about the value of off-system transactions.  Page 206  A. No. 30 No. So, are there any other impediments of that soort that you see on the horizon in dealing with Hydro as a regulated entity that's sort that you see on the horizon in dealing with Hydro as a regulated entity that's soft that you know, maintaining security of supply as paramount in all decision making. With that as a given, I don't see the fact that Hydro would be regulated as an impairment to NEM's ability to achieve value.  MR. COXWORTHY: 19 Q. Okay, If we could turn to page 21 of Nalcor's evidence filing on September 20th, I think. I think I would asy September 19th, but September 20th, 21 think. I think I would asy September 19th, but September 20th, 21 think. I think I would asy September	1			• • • • • • • • • • • • • • • • • • • •
6 MR. JONES: 7 A. Yes. 8 MR. COXWORTHY: 9 Q. And going to the Board to confirm that; that 10 was an impediment? 11 MR. JONES: 12 A. No, that wasn't the – that wasn't the reason to go to the 13 to go to the Board. The reason to go to the 14 Board was to get approval to sell to NEM. 15 It was a technical limitation that we felt 16 Ind to be closed. 17 MR. COXWORTHY: 18 Q. And did that take a long time to obtain that 19 technical approval? 20 MR. JONES: 21 A. Six months, I think, something like that. 22 MR. Fox MR. JONES: 23 Q. Is that something that's going to be 24 repeated in the future? 25 MR. JONES: 26 Page 206 27 MR. COXWORTHY: 28 MR. COXWORTHY: 29 MR. COXWORTHY: 20 MR. COXWORTHY: 21 A. No. 22 MR. COXWORTHY: 23 Q. Is that something that's going to be 24 repeated in the future? 25 MR. JONES: 26 Page 206 27 MR. COXWORTHY: 28 Page 206 29 MR. COXWORTHY: 30 Q. So, are there any other impediments of that 4 sort that you see on the horizon in dealing 4 with Hydro as a regulated entity that's 26 going to impair the mimbleness of your 27 organization? 31 Q. So, are there any other impediments of that 32 over the construct that we have achieved or 33 vou know, maintaining security of supply as a paramount in all decision making. With that 4 sort that you see on the horizon in dealing 4 with Hydro as a regulated entity that's 5 might be decised.  27 MR. COXWORTHY: 38 that this passage I'll say is about, you know, withere a conflict, if I can, about the decisions Power Supply is going to have to make on a go-forward basis and reliability of supply as an are about. This passage, but the passage I'll say is about, you know, wishind the sabout, you know, wishind the decisions Power Supply is going to have to make on a go-forward basis and reliability of supply as a daility of supply as durity study long, with that as going to impair the mimbleness of your organization? 3				
7 A. Yes. 8 MR. COXWORTHY: 9 Q. And going to the Board to confirm that; that was an impediment? 10 was an impediment? 11 MR. JONES: 12 A. No, that wasn't the – that wasn't the reason to go to the Board the value of off-same to go to the Board. The reason to go to the Board was to get approval to sell to NEM. 15 It was a technical limitation that we felt bad to be closed. 16 Board was to get approval to sell to NEM. 17 MR. COXWORTHY: 18 Q. And did that take a long time to obtain that technical approval? 19 MR. JONES: 19 A. Six months, I think, something like that. 20 MR. JONES: 21 A. Six months, I think, something like that. 21 MR. COXWORTHY: 22 MR. COXWORTHY: 23 Q. Is that something that's going to be repeated in the future? 24 mr. COXWORTHY: 25 MR. JONES: 26 MR. JONES: 27 MR. COXWORTHY: 28 Q. So, are there any other impediments of that sort that you see on the horizon in dealing with Hydro as a regulated entity that's soft that you see on the horizon in dealing with Hydro as a regulated entity that's poing to impair the nimbleness of your organization? 29 MR. JONES: 30 Q. So, are there any other impediments of that sort that you see on the horizon in dealing with Hydro as a regulated entity that's poing to impair the nimbleness of your organization? 31 you know, maintaining security of supply as about, which is Hydro as a given, I don't see the fact that Hydro would be regulated as an impairment to NEM's ability to achieve value. 32 MR. JONES: 33 MR. JONES: 44 Torthink the types of transactions, Mr. Jones, that you see on the horizon in dealing with Hydro as a regulated entity that's point pair the nimbleness of your organization? 31 You know, maintaining security of supply as about, work, now, without reading the reliability of supply as about, work of Hydro's assets and, you know, maintaining security of supply as ability to achieve value. 32 MR. JONES: 33 MR. JONES: 44 Torthink the types of transactions, Mr. Jones, that your organization or your division of Hydro is —Nalcor, Frm sorry, is going to be doing.	1			
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12 A. No, that wasn't the —that wasn't the reason to go to the Board. The reason to go to the Board was to get approval to sell to NEM. 14 Board was to get approval to sell to NEM. 15 It was a technical limitation that we felt 16 had to be closed. 17 MR_COXWORTHY: 18 Q. And did that take a long time to obtain that technical approval? 19 technical approval? 20 MR_JONES: 21 A. Six months, I think, something like that. 21 MR_COXWORTHY: 22 MR_COXWORTHY: 23 Q. Is that something that's going to be repeated in the future? 24 mR_JONES: 25 MR_JONES: 26 MR_JONES: 27 Page 206 28 MR_JONES: 29 A. No. 29 MR_COXWORTHY: 30 Q. So, are there any other impediments of that sort that you see on the horizon in dealing with Hydro as a regulated entity that's organization? 30 Q. So, are there any other impediments of that sort that you see on the horizon in dealing with Hydro as a regulated entity that's paramount in all decision making. With that as a given, I don't see the fact that Hydro would be regulated as an impairment to NEM's ability to achieve value. 31 MR_COXWORTHY: 32 MR_COXWORTHY: 33 Q. So, are there any other impediments of that sort that you see on the horizon in dealing with Hydro as a regulated entity that's paramount in all decision making. With that as a given, I don't see the fact that Hydro would be regulated as an impairment to NEM's ability to achieve value. 34 MR_COXWORTHY: 35 MR_COXWORTHY: 36 MR_JONES: 37 MR_JONES: 38 MR_JONES: 49 A. Under the construct that we have achieved or we have established so far, which is Hydro as a given, I don't see the fact that Hydro would be regulated as an impairment to NEM's ability to achieve value. 40 MR_COXWORTHY: 41 MR_JONES: 42 MR_JONES: 43 MR_JONES: 44 MR_JONES: 45 MR_JONES: 46 MR_JONES: 47 MR_JONES: 48 MR_JONES: 49 MR_JONES: 49 MR_JONES: 40 MR_JONES: 41 MR_JONES: 41 MR_JONES: 41 MR_JONES: 42 MR_JONES: 43 MR_JONES: 44 MR_JONES: 45 MR_JONES: 46 MR_JONES: 47 MR_JONES: 48 MR_JONES: 49 MR_JONES: 40 MR_JONES: 41 MR_JONES: 41 MR_JONES: 41 MR_JONES: 42 MR_JONES: 43 MR_JONES: 44	1			*
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Page 209 Page 211 MR. COXWORTHY: 1 A. Combined cycle combustion turbine fired on 1 2 And "it could require that sales to export 2 Q. natural gas. 3 markets be interrupted". Again, I don't MR. COXWORTHY: 3 4 want to get into anything commercially 4 And it is otherwise used by New Brunswick O. 5 sensitive, but you just mentioned that this 5 Power to serve its customers or is it 6 principle is embedded in your contracts, 6 entirely surplus to NB Power's needs or do 7 7 your contracts with customers, off-system you know? 8 customers. Do those contracts also include 8 MR. JONES: 9 9 provision to deal with the possibility that It is not entirely surplus. New Brunswick Α. 10 Hydro may require that sales to export 10 Power bought it from Nova Scotia Power or markets be interrupted? excuse me, from Emera. During the five 11 11 12 MR. JONES: 12 winters – so, we have access to the capacity Yes. 13 call for the summer months. New Brunswick 13 Α. 14 uses it to supply native load during the MR. COXWORTHY: 14 15 And what's the degree of sensitivity there? 15 winter months and for reliability purposes. Q. I mean, can Hydro say, with respect to an 16 16 MR. COXWORTHY: existing contract, power is flowing to that 17 17 So, to use my hypothetical Hydro calls you O. customer, we've got to interrupt that in 15 up and says "we've got to interrupt any 18 18 minutes? Is there that degree of sense export of power in 15 minutes", is the 19 19 because we've got a problem here on the Bayside backstop, does it have the 20 20 Island that needs that level and that sensitivity for you to be able to call them 21 21 22 22 and say "we need – we want to backstop this rapidity of response? Is that level of sensitivity built into the contracts that interruption. Make up for this interruption 23 23 24 NEM has with its customers? 24 by taking power from your facility"? 25 MR. JONES: 25 MR. JONES: Page 210 Page 212 1 A. Yes. Yes, with the exception, I would say, 1 A. Yes, and there are obviously constraints on 2 of the Nova Scotia block. So, the 2 the ability to start up the unit, et cetera, 3 reliability obligations on the – or the 3 et cetera, but yes, the combination of that 4 obligation to serve the Nova Scotia block, 4 contract, that facility and the contract 5 5 those reliability obligations and the language that we have in all of our enabling 6 priority of service out of Muskrat Falls and 6 agreements would cover off that eventuality. 7 the priority of service due to transmission 7 MR. COXWORTHY: 8 interruptions that would impact the flow of 8 Is there always though the possibility that Q. 9 energy potentially out of Muskrat Falls or 9 Bayside may not be in a position to respond 10 even to Nova Scotia Power, those are 10 to that call or not respond to it in a 11 embedded into the contract and obviously timely fashion? 11 12 MR. JONES: Nalcor has to abide by that contract as 12 13 well. 13 Absolutely. A. 14 MR. COXWORTHY: MR. COXWORTHY: 14 15 And you've mentioned in your evidence in 15 So that there is an actual interruption to 16 response to questions from Mr. Browne, I 16 NEM's end customer? believe, the Bayside backstop, if I can call MR. JONES: 17 17 18 it that. 18 A. That is correct. MR. JONES: 19 19 MR. COXWORTHY: 20 Um-hm. 20 And again, without getting into too much 21 21 detail about the first (unintelligible) MR. COXWORTHY: 22 Q. The New Brunswick generation facility. What 22 obviously someone suffered a loss in that 23 type of generation facility is that? Is it 23 situation where the power has been 24 gas turbine? Is it -24 interrupted.

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MR. JONES:

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MR. JONES:

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1	A. So, NEM would bear that risk. So, that	1	40 of Appendix A, and that's the summary, I		
2	would be similar to the example that I	2	believe, of Nalcor Hydro has a public –		
3	described on the transmission interruption		well, as a utility. And the current		
4	÷		structure is: Power Development, which is in		
5	• •		addition to being responsible for Muskrat		
6	contracts for us.	5 6	Falls, also responsible for potential		
7	MR. COXWORTHY:	7	developments at Gull Island or such as Gull		
8	Q. So, to the extent there's any loss from that	8	Island; Power Supply; and then Newfoundland		
9	interruption that NEM might have to bear, if	9	Hydro. What is the thinking, Mr. Haynes, as		
10	that loss was caused by Hydro calling for an	10	to why Power Development, as I understand		
11	interruption, that's still a loss that NEM	11	it, should be folded into Power Supply?		
12	and Nalcor has to bear? IT doesn't get sent	12	MR. HAYNES:		
13	back to Hydro?	13	A. Well, Power Development was created – I		
14	MR. JONES:	14	mean, started off obviously, as was already		
15	A. Correct.	15	mentioned, with respect to Gull Island. But		
16	MR. COXWORTHY:	16	when you start to execute a project like		
17	Q. In one way or another?	17	Muskrat Falls and LIL, it was all contained		
18	MR. JONES:	18	within that particular group. Until Gull		
19	A. That's correct.	19	gets – or some other larger development gets		
$\begin{vmatrix} 19\\20 \end{vmatrix}$	MR. COXWORTHY:	20	legs under it, you know, it will be a part		
21	Q. That's your understanding?	21	of kind of the engineering folks who would		
$\begin{vmatrix} 21\\22\end{vmatrix}$	MR. JONES:	22	look at those things. There would be		
23	A. Yes.	23	somebody obviously leading any negotiation		
	24 MR. COXWORTHY:		or exercise with respect to what we're doing and technical and economic. But once it		
25					
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	between NEM and Hydro as to the timing of	1	starts to get traction and that they're		
2	such an interruption? Is that a discussion	2	going to build it, you know, you tend to		
3	that you could conceive NEM having with	3	have somebody specifically assigned to that.		
4	Hydro?	4	In this case, for Muskrat Falls, there		
5	MR. JONES:	5	was a department set up. Gilbert Bennett is		
6	A. I suppose there's always room for a	6	the VP looking after that there and most of		
7	discussion, but generally speaking, those	7	those – well, other people are contractors.		
8	decisions to interrupt supply would be done	8	So, I think it's a matter of timing,		
9	by the Newfoundland and Labrador system	9	you know. You roll it back in to Power		
10	operator and we are governed by the	10	Supply. If Gull became a development, you		
11	operations of the system operators in every	11	would probably have that kind of farmed out		
12	jurisdiction that we operate. So, there are	12	again as being a separate group to deliver		
13	times that we have been curtailed from	13	that, obviously using people that will be		
14	delivering into New York by the New York	14	transferred over temporarily or contractors.		
15	system operator because the New York system	15	That will be the construct. I don't know		
16	operator says "we do not – we cannot absorb	16	why we would not do that again. Once it		
17	your energy." There's no forgiveness out of	17	gets legs and starts to get traction and		
18	that. We still have to meet our contracts	18	actually gets sanction sort of thing.		
19	to that same system operator who just	19	MR. COXWORTHY:		
20	interrupted our supply. But that is –	20	Q. Is there anyone within Power Development now		
21	that's the nature of how the energy trading	21	dedicated solely to examining potential		
22	business works.	22	developments, i.e. anything other than		
23	MR. COXWORTHY:	23	Muskrat Falls?		
24	Q. Thank you, Mr. Jones. If we could turn to –	24	MR. HAYNES:		
25	this is again in Nalcor's evidence – to page	25	A. I think Gilbert spent some time thinking		

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1	about that there, because him and I worked	1	know, the engineering department would look			
2	together on that there, but from a project	2	at that from that perspective and provide			
3	point of view, there will be little to none.	3	some updated cost estimates based on the			
4	Their focus is to deliver the generating	4	numbers that we already have. We've done			
5	plant right now.	5	that, from that perspective, but that's not			
6	MR. COXWORTHY:	6	a lot of time at this point in time.			
7	Q. Sure.	7	There's not enough traction as yet.			
8	MR. HAYNES:	8	MR. COXWORTHY:			
9	A. And all the wires and stuff is already moved	9	Q. I guess what I'm trying to get at, Mr.			
10	over to Power Supply.	10	Haynes, and you've talked about this			
11	MR. COXWORTHY:	11	already, you know, in terms of what would			
12	Q. Is it fair for me to say that there may not	12	happen in Power Supply that, you know, if a			
13	be anyone specifically dedicated to that for	13	particular task within Power Supply was not			
14	months or years until an opportunity like	14	related to the delivery of power to Hydro's			
15	Gull Island has more – has crystallized or	15	customers, was not part of that envelope of			
16	crystallized to a greater extent than it has	16	work, you know, that there would be certain			
17	now?	17	systems that would be triggered within Power			
18	MR. HAYNES:	18	Supply so that that task would be segregated			
19	A. There is no single individual or say one	19	or somehow flagged as being something that			
20	position on a box in an organization chart	20	doesn't flow through to Hydro's customers.			
21	looking at that right now. But there are a	21	Am I right in thinking that either that is			
22	bunch of people spending some time looking	22	in place or you would envision something			
23	at those things.	23	like that being in place going forward?			
24	MR. COXWORTHY:	24	MR. HAYNES:			
25	Q. Is there a line item in – or will there be a	25	A. Not quite sure I understand the question			
	4. In motor a man train at a min motor of a	23				
	Page 218		Page 220			
1	Page 218 line item in Power Supply's budget that	1	Page 220 exactly.			
1 2	Page 218	1 2	Page 220			
1	Page 218 line item in Power Supply's budget that relates solely to potential developments and not to the Muskrat Falls?	1	Page 220 exactly.			
1 2	Page 218 line item in Power Supply's budget that relates solely to potential developments and	1 2	Page 220 exactly. MR. COXWORTHY:			
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Page 221 Page 223 cetera, that goes towards Menihek as opposed 1 O. No, it's a division. 1 2 to perhaps something that should be paid to 2 MR. HAYNES: 3 3 the – flowed through to the Hydro customers. - is a hodgepodge of things and there's a A. 4 MR. HAYNES: 4 Churchill budget. There's a – you know, I 5 Yeah, it's a work order system set up. 5 don't think Menihek actually has a budget. Α. 6 There's a charge number that if anybody in 6 I haven't seen it because it's rolled up in 7 Engineering spend any time working on 7 the Churchill. The Lower Churchill 8 Menihek or doing a capital budget proposal, 8 components have a budget. And I think 9 they'll put in their timesheet on a weekly 9 there's three, if not four, separate budgets 10 basis and number whatever the work order 10 that roll together to the Power Supply's overall budget from an operating budget and 11 number is will charge it off to that there. 11 12 That's how it's done and that will be 12 a capital budget perspective. applied to any of these projects. 13 MR. COXWORTHY: 13 MR. COXWORTHY: 14 14 O. Will there be a separate budget for the 15 And at a higher level, will there be a 15 operation of the Muskrat Falls Project Q. budget set within Power Supply to say well, 16 16 assets? this is how much we're going to allocate 17 17 MR. HAYNES: towards Menihek. This is how much we're 18 18 A. Yes, there's a separate budget for Muskrat, for LIL and LT – and the Labrador 19 going to allocate towards Newfoundland 19 Energy Marketing, if it stays within Power Transmission assets. 20 20 Supply. Oh, and this is how much we're 21 21 MR. COXWORTHY: 22 going to – or we think we're going to need 22 Is that presently in place or is that a work to expand in relation to the operation of 23 in progress? 23 24 the Muskrat Falls? MR. HAYNES: 24 25 MR. HAYNES: 25 That's a work in progress. I mean, they Α. Page 222 Page 224 1 A. Some of those things are there now. Some 1 allow – they're preparing budgets now from 2 will grow as time goes on. There is a 2 that perspective as we're moving into that, 3 business development group. The gentleman 3 but there are some, you know. It is a work 4 who actually is the record for that right 4 in progress and has refinements happening. 5 5 now is off sick, but he'll be back in a MR. COXWORTHY: 6 couple of months hopefully, two or three at 6 Will it be in place by the time Muskrat Q. 7 the latest, I hope, and it's a very, very 7 Falls is commissioned, recognizing, of 8 small group, but they basically respond to 8 course, that that's a moving target? 9 that. They work closely with Greg on some 9 MR. HAYNES: 10 of his external opportunities. They work 10 Yes, but there is a budget. Yes, there will A. with myself and Stan and Gilbert on some be a budget. We're operating on some of 11 11 other options from that perspective. At the 12 12 that now. moment, the gentleman is off on sick leave. MR. COXWORTHY: 13 13 14 MR. COXWORTHY: If we could move to page 22, 23 of Nalcor's 14 Q. evidence, the September 20 filing. And on 15 So, will Power Supply have a formal annual 15 16 budget that it has to present -16 page 22, I think starting from line 18, this MR. HAYNES: 17 details – and there's been some evidence 17 18 Power Supply is -18 from this panel about this – some of the A. 19 MR. COXWORTHY: 19 information sharing, if I can call it that, 20 - to Nalcor's Board or to someone else 20 that's already ongoing or planned between Hydro and Nalcor with respect to O&M and 21 within Nalcor? 21 22 MR. HAYNES: 22 sustaining capital investments that are 23 Yes. Power Supply – Power Supply is not a 23 going to flow through the Hydro customers. 24 company. Power Supply -24 There's a whole bunch of bullets starting on 25 MR. COXWORTHY: 25 this page about the information sharing and

Page 225 Page 227 it continues on the next page, and I just 1 developed? 1 2 want to – and of course, on the next page 2 MR. HAYNES: 3 refers to these two joint committees that 3 We're still working to define that. A. you've already been asked some questions 4 4 Jennifer has already written me a letter and 5 about by Mr. Browne, and perhaps by others 5 said this is what she wants and I don't have 6 as well. 6 any particular issues with that there 7 7 because I think they have to be. You know, And I guess I would ask both for the 8 Nalcor perspective from Mr. Haynes and the 8 like we should not be putting forward 9 Hydro perspective from the other side. Is 9 capital budgets that don't work. They need to be – you know, they need to be 10 this also a work in progress? This 10 information sharing, is there room for substantiated and justified and rational. 11 11 12 improvement or is everything there in place 12 You know, there will always be – you know, 13 at a level that both Hydro and Nalcor are 13 there will always be a desire to have more 14 comfortable with in terms of that 14 of everything from the point of view of I'll 15 information sharing? 15 even say a maintenance -- you won't find any 16 MR. HAYNES: 16 spare part that a maintenance person doesn't want to have in inventory. That's not 17 There's always room for improvement, first 17 18 of all, and basically what we've tried to 18 always the right thing to do. So, you know, do, what we're attempting to do is that 19 19 we expect to be challenged on that there and 20 there's a lot of transparency between what 20 that's all good. 21 Nalcor is doing and with respect to the 21 MR. COXWORTHY: 22 22 efforts on the Muskrat Falls Project itself, And if there's already an existing model for presenting and justifying capital 23 on the plant and LIL, LTA. I wouldn't say 23 24 expenditure that Hydro has developed through there's a lot of visibility on what we're 24 25 doing in Churchill Falls from that 25 the years and with some guidance, I'll say, Page 226 Page 228 1 perspective, but certainly from a point of 1 from the Board and maybe prodding from the 2 view of being open and transparent on the 2 intervenors, is there any reason not to use 3 operating budgets, on any capital 3 that same model, even if it's only for 4 requirements from a sustaining capital point 4 internal justification as between Nalcor and 5 5 of view, from my perspective would be full Hydro when sustaining capital investments 6 disclosure. are being proposed for Muskrat Falls? 6 7 And I will admit too that we have some 7 MR. HAYNES: 8 work to do from the point of view of on the 8 I wouldn't commit that they'll be 100 9 capital budget, justifications from a Power 9 percent but there'll be a lot of alignment. 10 Supply point of view. You know, bringing it 10 I've already had that discussion with the VP 11 more inline, if you will, with the Hydro 11 of Engineering that we need to be bringing 12 up the rationalization and the documentation 12 approach with respect that there's a lot of third party review. And so there's some – I for capital budgets particularly. 13 13 14 won't say we'll be 100 percent, but there'll 14 MR. COXWORTHY: 15 be a significant improvement in that part 15 Q. Ms. Williams, anything you want to add? 16 there. They still have to be justified and 16 You're the one who wrote the letter. that they're prudent and cost effective MS. WILLIAMS: 17 17 18 things to do. 18 A. Yes. Like Jim said, "if anybody thinks 19 MR. COXWORTHY: 19 Jennifer doesn't challenge me, they haven't 20 And what is going to be 100 percent? Is it 20 met Jennifer." 21 going to be a presentation similar to the 21 MR. COXWORTHY: 22 capital budget, annual capital budget 22 I won't put you on the spot any further, not Q. 23 presentation that Hydro makes to this Board? 23 yet anyway. 24 Is that the level of internal justification 24 MS. WILLIAMS: 25 and documentation that's going to be 25 But I would add that this is the

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Page 229 committee's, as is contemplated in the PPAs are basically just now kicking off. And that was the intention of my note to Jim was to lay very clear expectation, and Jim doesn't disagree and I wouldn't have done this – I wouldn't have done it with a knife to his throat. It was intended to document for he and I, but also for the people that work with us that it is our indication and requirement.

We need to sit together and work out what are the documentation needs that we're going to want to prove that we have indeed question them, because we fully believe and expect that we would then, through proceedings with this Board, is provide for the documentation that we have indeed pushed it through a lot of review.

We're making the best of the situation that we have with regards to that oversight and we take it seriously and we do want to make sure it looks a lot like the kinds of reviews that we currently do. So, that's really – so, it is starting and we have a lot of room to develop what those procedures

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MR. COXWORTHY:

16 17 And with Ms. Hutchens there – and I'll 18 apologize in advance if I'm forgetting 19 somebody – am I correct in saying that 20 that's having Hydro's most senior finance 21 person on that committee?

22 MS. WILLIAMS:

23 A. Correct.

24 MR. COXWORTHY:

And in the case of Mr. Crosbie, I think you

indeed look like.

MR. COXWORTHY:

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2 3 And you've anticipated, you know, the area I Q. was going to move onto, which I think is 4 5 Slide 6 and Slide 7 of the Sustainable Cost 6 Management presentation. So, perhaps if we can turn to Slide 6. And I just wanted to 7 8 ask some more questions about the roles and 9 responsibilities of these two joint 10 committees. Mr. Haynes wasn't able to say 11 who were precisely the members from Power Supply and Hydro that were on these 12 committees or at least not at the time he 13 14 was asked a question previously. I don't 15 know if it's coming to mind now.

16 MR. HAYNES:

17 No. I didn't think about it since. A.

18 MR. COXWORTHY:

19 O. Or if Ms. Williams perhaps knows who is 20 sitting or proposed to be sitting on that 21 committee from Hydro.

22 MS. WILLIAMS:

23 A. I have delegated the two folks for Hydro to 24 be Ms. Hutchens, who's going to be on the 25 panel, as well as Mr. Scott Crosbie. So,

1 we, I guess -2

MR. COXWORTHY:

And what's Mr. Crosbie's function or Q. position within Hydro?

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Page 232

5 MS. WILLIAMS:

> So, he's currently our director of Α. operations and Scott has had an extensive career within Hydro and very much knows Hydro's view of its operations. So, he's currently accountable for the day-to-day operations of all of transmission and rural operations, as well as all the production. I alluded to when I moved into this role, I removed a VP position. I did not backfill the VP of Production. I rolled that together and we expanded some of Scott's -Mr. Crosbie's accountability to include production operations as well. So, he's very familiar with, certainly from Hydro, what the maintenance plans and the approaches for both the generation and transmission assets within Hydro. So that is the purpose of his participation is to examine what is being proposed by Power Supply and put his tests against that. And

> > then as well, it was important to have a financial person there to represent those kinds of questions.

I will say that by no means will Scott and Lisa be alone. Hydro intends to have a group of people behind that would support their review. So, we expect – again, this is all to be determined – we would receive some sort of documentation and that, you know, we would go away and we would examine it and ask questions and have discussions. So, Scott and Lisa are, call it, official members of the committee, but there'll be a number of number of other people supporting the review of those costs.

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Octob	er 10, 2019	Verbatim Court Reporte			
	Page 233		Page 235		
1	probably partially answered the question. I	1	judgment of the people on the committee, the		
2	was going to ask who does he report to. I	2	Hydro people on the committee?		
3	think it would have been the VP Production,	3	(1:00 p.m.)		
4	· <b>I</b>		MS. WILLIAMS:		
5	So, who does he report to now, if there	5	A. I might have mentioned it's brand new, so		
6	isn't a VP Production?	6	we're still determining exactly how is the		
7	MS. WILLIAMS:	7	relationship and the approval process going		
8	A. Sure, yeah. He reports to Ron LeBlanc, who	8	to work. So, there's currently no standards		
9	is our VP for the NLSO, as well as all the	9	or approaches or thresholds in place. We're		
10	production – all of, sorry, operations.	10	at the very beginning of exactly how this		
11	MR. COXWORTHY:	11	relationship is going to work.		
12	Q. So, would Mr. Crosbie represent as senior a	12	MR. COXWORTHY:		
13	position vis-à-vis operational	13	Q. Will there be those standards thresholds in		
14	considerations as Ms. Hutchens represents	14	place?		
15	vis-à-vis financial?	15	MS. WILLIAMS:		
16	MS. WILLIAMS:	16	A. To be determined. I mean, I think there's		
17	A. No, I think, no, Ron, Mr. LeBlanc is the	17	been some evidence, you know, here that a		
18	more senior person, but Ron, like myself, is	18	\$50,000 capital budget submittal can be		
19	fairly new to Hydro. I think, for me, I	19	difficult in this regulatory regime. I'm		
20	felt comfortable with Scott being that	20	not suggesting that we would use that in the		
21	person because he grew up – he's like Jim.	21	other one. I can't say that we'll have a		
$\frac{21}{22}$	He grew up in Hydro and has a lot more	22	threshold or not. I really can't comment.		
23			MR. COXWORTHY:		
24	done. He's still quite senior and, but you	23 24	Q. And I'm not suggesting \$50,000 either for		
25	know, is still quite close to how things are	25	the record.		
23	Page 234	23	Page 236		
1	actually getting executed on the Hydro side	1	MS. WILLIAMS:		
2	of things these days.	2	A. No, I know, yeah.		
3	MR. COXWORTHY:	3	MR. COXWORTHY:		
4	Q. Will Mr. Crosbie, as Mr. LeBlanc gains	4	Q. But some objective threshold I think would		
5	experience with this particular	5	bear some consideration?		
6	organization, is the expectation though that	6	MS. WILLIAMS:		
7	Mr. Crosbie will take the information he	7	A. I don't think we'd want to waste our time		
8	gets from this committee up to Mr. LeBlanc?	8	talking about \$1,000 items. There will		
9	MS. WILLIAMS:	9	certainly be appropriate judgment placed		
10	A. I expect that both Ms. Hutchens and -	10	with regards to materiality.		
11	MR. COXWORTHY:	11	MR. COXWORTHY:		
12	Q. Or up to that position.	12	Q. And still on the same slide, Slide 6 – well,		
13	MS. WILLIAMS:	13	perhaps before I move on from that		
14	A Mr. Crosbie together will be working with	14	particular area, the Power Supply members,		
15	- even reporting to somebody like myself on	15	Mr. Haynes you indicated that these would be		
16	how this is going to go. We know how	16	senior people within Power Supply.		
17	important this initiative is and it will be	17	MR. HAYNES:		
	*	18			
18 19	resourced appropriately with the right number of people looking at the content.	18	A. Yes. MR. COXWORTHY:		
	MR. COXWORTHY:				
20		20	Q. At a similar level of seniority to the Hydro		
21	Q. Are there any financial thresholds in terms	21 22	people? MR. HAYNES:		
22	of the cost implications for Hydro's				
23	customers in terms of what has to come up to	23	A. Yes, they are. I have the initials down		
24	you, Ms. Williams, from that committee for	24	here, but I have to confess, I can't		
25	consideration or is that left to the	25	confirm, but I'm pretty sure it's Mr.		

Page 237 Page 239 Henderson and Mr. Meaney at this point in Q. 1 So, if the two Hydro members don't agree 1 that's a prudent, a reasonable cost to 2 2 time. 3 incur, does that mean that there isn't 3 MR. COXWORTHY: 4 Maybe they're just learning that for the 4 consensus? 5 first time. 5 MR. HAYNES: 6 MR. HAYNES: 6 No, if – there is a – and I don't recall the Α. 7 We're also transitioning into operations as 7 details, but there is a dispute mechanism A. 8 well. It may change over time obviously. 8 there someone in that contract. I just 9 9 MR. COXWORTHY: forget what they are. But there is a 10 Q. Have they actually – is this committee up 10 process to elevate that or escalate it to and running and functioning now or is it? 11 11 see that through. 12 MR. HAYNES: 12 MR. COXWORTHY: 13 It's just started. It's just started. You 13 It gets kicked upstairs and Mr. Haynes, you 14 know, they are both just starting to get 14 speak to Ms. Williams. Is that -15 traction as we move into operations. 15 MR. HAYNES: 16 MR. COXWORTHY: 16 Α. Kicked upstairs or kicked to another party. And is the commitment that you'll have the I just don't remember. And Mr. Meaney may 17 17 18 same level of seniority sitting on this 18 be able to answer that question because he's committee going forward or is this just 19 19 been involved in that before. something necessary to get to steady state? 20 20 MR. COXWORTHY: 21 MR. HAYNES: 21 Okay, tomorrow's panel. Thank you for that. 22 No, I wouldn't underestimate the seniority 22 Α. MR. HAYNES: on this committee. These will be senior, 23 23 Apologize to Mr. Meaney. A. 24 seasoned people that will be there who know MR. COXWORTHY: 24 25 the assets. I would suggest that on the 25 And I just want to talk a little bit then O. Page 240 Page 238 1 Muskrat Falls, you know, the Muskrat Falls 1 about the – on the next slide, 7, the other 2 Plant Committee, we both operate Hydro 2 joint operating committee. Now that one's a 3 plants, unless there's something really 3 little different because it's not all in the 4 unusual, I wouldn't suspect any big surprise 4 family. It's not just Nalcor and Hydro 5 5 in the way a Muskrat Falls plant operates people talk to each other. You have Emera 6 and capital reinvestment required, so on. 6 people at the table and they have their 7 Obviously the DC line is a little bit 7 distinct and from their perspective, 8 different. So, there's an evolution there 8 appropriate interests that they want to look 9 9 after in all of this. required. 10 MR. COXWORTHY: 10 MR. HAYNES: 11 On Slide 6, the last bullet, "Decisions made 11 Yes. by consensus". I guess I'm going to ask MR. COXWORTHY: 12 12 what does that mean or if the committee is 13 Who from Power Supply is going to be – is it 13 Q. 14 only just up and running, do you know, Mr. 14 the same people that are going to be on the 15 Haynes, Ms. Williams, what that means or 15 other committee? Is it different people? 16 what it will mean? 16 MR. HAYNES: 17 MR. HAYNES: 17 There will be some of the same people, but A. 18 It's a joint committee to go down through 18 basically it maybe the wires side of the A. business, I suppose at the end of the day 19 and review the operating and capital needs 19 20 and I mean, there is -I'm not saying 20 when it's all fully functionally, maybe the 21 there's a goal, but basically there has to 21 wires people as opposed to the generation 22 be consensus around the table this is the 22 people. 23 right thing to do from a reliability, safety 23 MR. COXWORTHY: 24 perspective. 24 O. And from Hydro, Ms. Williams, do you know, 25 MR. COXWORTHY: 25 you know, who's likely to be or is the Hydro

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1	nominee?	1	you know, that everybody is challenged, and	
2	MS. WILLIAMS:	2	that we're actually doing what it is the	
3	A. We do have a nominee there now. I'm going	3	right thing to do for the reliability and	
4	to characterize it this way and ask Mr.	4	safety of these assets.	
5	Haynes to correct me. This committee is	5	MR. COXWORTHY:	
6	already underway and it's more really	6	Q. And this committee, again looking to Slide	
7	dealing with the current decision making and	7	Number 7, some of the responsibilities of	
8	operations. So, it may evolve exactly who	8	the committee will be in relation to O&M	
9	that person is, but we do have a gentleman,	9	activities, maintenance plan?	
10	Mr. Josh DeCoste, who is on that and up to	10	MR. HAYNES:	
11	when Jim moved over to Power Supply, Josh	11	A. Yeah.	
12	was reporting to Jim. So, he's – even	12	MR. COXWORTHY:	
13	though is title, he's a manager of	13	Q. O&M standards. And for the Muskrat Falls	
14	integration, his title doesn't represent the	14	Project –	
15	most senior level in the organization, his	15	MR. HAYNES:	
16	accountability and responsibility is	16	A. Similar.	
17	certainly to participate on that committee	17	MR. COXWORTHY:	
18	and understand what's happening and report	18	Q assets?	
19	back. He's currently reporting to Mr.	19	MR. HAYNES:	
20	LeBlanc as well. So, I would characterize	20	A. Yeah.	
21	that committee now as underway, but more	21	MR. COXWORTHY:	
22	operational, not as focused right now on	22	Q. And those are going to be drivers. Whatever	
23	exactly the future. So, would he be the	23	standards are adopted, whatever activities	
24	person in the long-term basis, to be	24	and maintenance plans are, those are going	
25	determined.	25		
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1 MR. COXWORTHY:			to drivers of costs towards Hydro's	
2	Q. It may be Mr. LeBlanc in the future?	1 2	customers, are they?	
3	MS. WILLIAMS:	3	MR. HAYNES:	
4	A. Correct.	4	A. They will be drivers. Well, obviously not	
5	MR. COXWORTHY:	5	the Maritime Link, but certainly the LIL and	
6	Q. There's no bullet down there at the bottom	6	LTA will be there, but I would also suggest	
7	of this one about decisions being made by	7	that the interest of Emera and Hydro won't	
8	consensus. I don't want to read to much	8	be different. They will both need	
9	into that, but is the decision-making in	9	reliability. You provide reliability to	
10	that committee any different?	10	Hydro. You provide it to Emera as well for	
11	MR. HAYNES:	11	the Nova Scotia block.	
12	A. It is an Emera/Nalcor committee of which	12	MR. COXWORTHY:	
13	Nalcor has four seats and Emera has two.	13	Q. And you know, I've heard that before which I	
14	And Nalcor has decided that we should have	14	characterize, there's no daylight between	
15	somebody from Hydro there for transparency	15	the reliability needs and expectations of	
16	purposes, but basically, you know, basically	16	Hydro's customers and those of, to use your	
17	the Nalcor Committee actually will, you	17	example, Emera's customers?	
18	know, will be the—are the majority obviously	18	MR. HAYNES:	
19	from that perspective. Obviously, we will	19	A. I don't think there's much difference in the	
20	look to have any issues between Nalcor and	20	two. I would—you know, there a few	
21	Hydro resolved long before we go to the	21	anomalies that we've created. The Bottom	
22	table with them. So, there's a process we	22	Brook Terminal Station is actually owned by	
23	have to build there as well, but it's all	23	Emera. Newfoundland Hydro provides the	
	·		· · · · · · · · · · · · · · · · · · ·	
24	for transparency purposes to ensure that,	24	maintenance services to them for that. They	

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2 Switch Yard to Power Supply for Soldier's 3 Pond for similar reasons. It's like there 4 are some integration things that were done, 5 that are done. We can't undo them very 6 easily, but Bortom Brook Terminal Station is 7 not owned by Hydro, nor is it owned by 8 Nalcor. It's owned by Emerimal Station is 9 ramaking sure that is done properly as they 10 obviously Hydro has a vested interest in 11 making sure that is done properly as they 12 would at Soldier's Pond. So, there's a fair 13 bit of cooperation and collaboration of all 14 parties there. 15 MR. COXWORTHY: 16 Q. Ms. Williams, anything you want to add to 17 that? 18 MS. WILLIAMS: 19 A. No, I'm good. 20 MR. COXWORTHY: 21 Q. Well, either of you because of course Hydro 22 is going to be on this committee. Cam 23 either of you conceive of the possibility on 24 a nongoing basis that there could be an O&M 25 Page 246 1 standard or some O&M activity or component 2 or maintenance plan that Emera might want, 3 but that Hydro, for instance, doesn't think 4 is necessary or prudent for the reliability 5 of its own customers? Is there absolutely 6 no scope for that divergence? 7 MR. HAYNES: 8 A. There are no absolutes. 9 MS. WILLIAMS: 10 A. Um-hm. 11 MR. COXWORTHY: 12 Q. No. 13 MR. HAYNES: 10 A. Well— 11 MR. COXWORTHY: 12 Q. No. 13 MR. HAYNES: 20 A. Well— 21 MR. COXWORTHY: 22 Q. How does that get resolved? 23 MR. HAYNES: 24 A. I that particular group there, Nalcon has 25 MR. COXWORTHY: 26 Q. How does that get resolved? 27 MR. HAYNES: 28 A. In that particular group there, Nalcon has 29 MR. HAYNES: 20 A. Well— 21 MR. COXWORTHY: 22 Q. How does that get resolved? 23 MR. HAYNES: 24 A. In that particular group there, Nalcon has 25 MR. HAYNES: 26 A. Hall hat particular group there, Nalcon has 26 MR. JONES: 27 A. Ponding, releases at Bay D'Espoir to meet 28 customer received; 29 MR. HAYNES: 20 A. Hall hat particular group there, Nalcon has 29 A. In that particular group there, Nalcon has 29 A. Hall have reciped by the content of the provincial resources. So, the ponding tha		Page 245		Page 247				
A Pond for similar reasons. It's like there are some integration things that were done, that are done. We can't undo them very easily, but Bottom Brook Terminal Station is not owned by Hydro, nor is it owned by Nalcor. It's owned by Emera, but the transmission lines go through it. So, obviously Hydro has a vested interest in making sure that is done properly as they would at Soldier's Pond. So, there's a fair 13 bit of cooperation and collaboration of all parties there.  14 parties there.  15 MR. COXWORTHY:  10 obviously Hydro, has a vested interest in making sure that is done properly as they would at Soldier's Pond. So, there's a fair 13 bit of cooperation and collaboration of all parties there.  16 MR. COXWORTHY:  17 the Water Management and Production Scheduling. And again, you know, Idon't want to get into anything that's considered commercially sensitive or subject to some 12 commercially sensitive or subject to some 12 descriptions in the slide and otherwise, a better understanding of Nalcor Energy Marketing at the end of the day for the water management. Is that right?  16 Q. Ms. Williams, anything you want to add to that?  18 MS. WILLIAMS:  19 A. No, I'm good.  20 MR. COXWORTHY:  21 Q. Well, either of you because of course Hydro 22 either of you conceive of the possibility on 24 an ongoing basis that there could be an O&M 25 energy Marketing at the end of the day for the water management. Is that right?  19 A. That is correct, yes.  21 You know, at the risk, and probably not the risk, I know I'm stating the obvious. The Water Management of the provincial resources. So, it is — Page 246 and on the taps or shut down the taps at Churchill Falls to let the water management of the provincial resources. So, it is — Williams, and the provincial resources. So, it is — MR. COXWORTHY:  22 Q. No.  23 MR. HAYNES:  24 A. Well—  25 MR. COXWORTHY:  26 Q. What is that were to happen?  27 MR. COXWORTHY:  28 MR. HAYNES:  29 A. Well—  29 MR. HAYNES:  20 A. Well—  21 MR. COXWORTHY:  22 Q. How does that get resolved?  23 M		-	ı	* *				
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11 making sure that is done properly as they would at Soldier's Pond. So, there's a fair bit of cooperation and collaboration of all parties there.   12 morphisms of the parties there.   14 morphisms of the parties there.   15 morphisms of the parties there.   16 morphisms of the parties there.   17 morphisms of the parties there.   18 morphisms of the parties there.   18 morphisms of the parties there.   18 morphisms of the parties there.   19 morphisms of the parties there.   17 morphisms of the parties there.   18 morphisms of the parties there.   18 morphisms of the parties there.   19 morphisms of the parties there.   19 morphisms of the parties there.   19 morphisms of the parties there.   10 morphisms of the parties there is the parties of the parties there.   10 morphisms of the parties there is the parties of the parties there.   10 morphisms of the parties there.   10 morphisms of the parties there.   10 morphisms of the parties there is the parties of	1		ı					
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	Page 249		Page 251				
1	the river flows on the Churchill River	1	Falls to the plant. So, once that schedule				
2	between Churchill Falls and Muskrat Falls or	2	is done, then optimization is kind of a sub-				
3	is that not part of Nalcor Energy	3	optimization, if you will, outside the				
4	Marketing's –	4	broader system on that particular river				
5	MR. JONES:	5	system. And I mentioned before, you know,				
6	A. Not directly part of Nalcor Energy	6	that, you know, it's a run of a river plant.				
7	Marketing. Nalcor Energy Marketing will	7	What happens in Churchill Falls affects				
8	place its schedules into Muskrat Falls	8	Muskrat Falls. So, we need to maximize—the				
1	Generation Corporation. Muskrat Falls will	9	·				
9	*	10	intent is to maximize the, you know, the				
10	then—there's an independent river		kilowatt hours per cubic metre that we				
11	coordinator on the Churchill River that will	11	discharged from both plants and still meet				
12	communicate with both Churchill Falls	12	the contractual obligations, obviously, to				
13	Labrador Corporation on its obligations to	13	Hydro-Quebec. And the independent river				
14	its customers and Muskrat Falls Corporation	14	coordinator has been there for a while and				
15	on its obligation to its customers, and	15	they've been working on that system and so				
16	then, basically, calculate and decide the	16	on, and it's being prepared to be—to go into				
17	most optimal operation of the river to meet	17	operation.				
18	those schedules and recognizing that there's	18	MR. COXWORTHY:				
19	a sharing of water between Muskrat and	19	Q. Is that within Power Supply, this, the				
20	Churchill Falls, according to the water	20	function that we're talking about, the				
21	Management Agreement. That's not what this	21	management?				
22	is. This water management is the activity	22	MR. HAYNES:				
23	, , , , , , , , , , , , , , , , , , ,		A. No, the independent coordinator actually				
24	MR. COXWORTHY:	23 24	sits in the NLSO from that perspective, but				
25		25					
1	Page 250 I		Page 252				
1	Page 250 Okay And thank you Perhans it should	1	Page 252				
1 2	Q. Okay. And thank you. Perhaps it should	1	they will optimize the schedule and what				
2	Q. Okay. And thank you. Perhaps it should have been obvious to me, but thank you for	2	they will optimize the schedule and what gates get opened to reduce what water from				
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1	then flow through to Hydro's customers?	1	direction from your new CEO, Mr. Marshall,	
2	MR. HAYNES:	2	is that correct?	
3	A. They should not. I don't think they flow to	3	MR. ROBERTS:	
4	Hydro customers. It's a -	4	A. Yes, I mean, Mr. Marshall and I would have	
5	MR. COXWORTHY:	5	worked through various scenarios in terms of	
6	Q. That's just another cost that has to be	6	how to set that up and what the optimal	
7	segregated from what flows through?	7	structure was. And once he landed on the	
8	MR. HAYNES:	8	preferred structure that we ended up with,	
9	A. I don't think it flows to customers. I'm	9	he then brought that back to the Nalcor	
10	quite sure it doesn't actually.	10	Board of Directors for approval.	
11	MR. COXWORTHY:	11	GREENE, Q.C.:	
12	Q. And again, will there be systems in place	12	Q. So, it could be characterized as Mr.	
13	to—there's transparency around that about	13	Marshall's vision for the appropriate	
14	what is and isn't flowing to Hydro's	14	structure for Nalcor once he arrived in the	
15	customers?	15	organization? You helped work out the	
16	MR. HAYNES:	16	details? It was his vision?	
17	A. Yes, there should be. That may—it may be	17	MR. ROBERTS:	
18	allocated based on an energy basis or	18	A. I wouldn't take any credit for the vision,	
19	whatever, but from that perspective, but	19	absolutely not.	
20	that's the way I suspect it will be done.	20	GREENE, Q.C.:	
21	MR. COXWORTHY:	21	Q. No.	
22	Q. I have no further questions. Thank you.	22	MR. ROBERTS:	
23	Thank you, Madam Chair.	23	A. I would say that, yes, any CEO who sits in	
24	CHAIR:	24	that chair has to think about what's the	
25		25		
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1	Q. Thank you, Mr. Coxworthy. Ms. Greene, I'm	1	optimal structure and people around them to	
2	going to go on the assumption you won't be	2	execute the priorities that they have, and	
3	finished in 15 minutes?	3	then, make sure that they're fully aligned	
4	GREENE, Q.C.:	4	with the Board. So, while it was Mr.	
5	Q. No, that's correct, Chair.	5	Marshall's preferred model and vision, it	
6	CHAIR:	6	was certainly supported a hundred percent by	
7	Q. I'll leave it up to you if you want to start	7	the Nalcor Board of Directors.	
8	now and you can tell me when would be a good	8	GREENE, Q.C.:	
9	time to –	9	Q. Okay.	
10	GREENE, Q.C.:	10	MR. ROBERTS:	
11	Q. I can certainly start.	11	A. So, it's a shared vision amongst them,	
12	CHAIR:	12	amongst them all I would imagine.	
13	Q. Okay.	13	GREENE, Q.C.:	
14	GREENE, Q.C.:	14	Q. Okay. So, in the normal course, the CEO	
15	Q. Okay.	15	brings those sorts of things to a Board of	
16 17	CHAIR:  O That's good I'll leave it to you to 1:30	16 17	Directors, but it—and that's what happened in your case?	
18	Q. That's good. I'll leave it to you to 1:30	18	MR. ROBERTS:	
19	or – GREENE, Q.C.:	18 19	A. That's correct.	
20	Q. Okay. I wanted to talk first about the 2016	20	GREENE, Q.C.:	
20	reorganization. So, I'll address these	21	Q. Right. At that time, as I also understand	
22	questions to Mr. Roberts, at least at the	22	it, there was no external consultant or	
23	beginning. As I understand it, at the time	23	expertise advice with respect to the	
24	that that occurred, it was a decision or a	24	appropriate structure. I believe it was in	
25	mar mar occarred, it was a decision of a	25	appropriate structure. I serieve it was ill	
1 ~				

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1	evidence, it's been that it was based upon	1	that's sort of his label that he put on it			
2	Mr. Marshall's vision, based on his	2	in terms of how he views that entity because			
3	experience in the industry. Is that	3	it's made up of Churchill Falls and Muskrat			
4	correct?	4	Falls which is providing a lot of power,			
5	MR. ROBERTS:	5	power supply, to its customers, and			
6	A. Yeah, I mean, I would want to toot my own	6	ultimately, could have other operations in			
7	horn for sure, but I've been doing this kind	7	between as we've talked about in terms of			
8	of work as well for 25 years. And so,	8	Gull Island. So, that's kind of where it			
9	obviously, I provided feedback through the	9	started, and then he looked at how to			
10	process, but Mr. Marshall's experience far	10	organize the rest of it and had the			
11	outweighs mine and it's quite obvious by his	11	Corporate Services and the Offshore			
12	bio. And he's quite experienced at setting	12	Development combined. He had obviously			
13	up these types of structures and bringing	13	Hydro, and his vision for that was to make			
14	success to organizations. So, yes.	14	sure that his experience over the past 40			
15	GREENE, Q.C.:	15	years has been, you know, bring regulatory			
16	Q. Right. And the overall policy direction to	16	clarity and transparency to the regulator.			
17	create a Nalcor Power Supply for unregulated	17	And so, he wanted to make sure we moved the			
18	assets, I understood that to be Mr.	18	needle in terms of making that more			
19	Marshall's decision which he took to the	19	autonomous, but as I testified again			
20	Board of Directors for the, what I call the	20	earlier, I think this morning, and doing so			
21	strategic structure in order to implement	21	in a cost-efficient manner.			
22	the overall mandate as he saw it?	22	GREENE, Q.C.:			
23	MR. ROBERTS:	23	Q. Yes. I don't think we're saying anything			
24	A. I don't know if I would quite characterize	24	different.			
25	•	25				
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1	it that way. I mean, at the end of the day,	1	MR. ROBERTS:			
2	what we were trying to do is we were looking	2	A. Okay.			
3	at who we had available to us, what was the	3	GREENE, Q.C.:			
4	right way to execute on the corporate	4	Q. Because you kept saying "he." So, my point			
5	priorities, and start it with obviously	5	was it was Mr. Marshall's vision when he			
6	emphasis on the project. He felt that Mr.	6	came in and at that time, yes, you were			
7	Bennett should focus on the generation	7	involved in helping roll out that vision and			
8	aspect. It was big enough. And that he	8	how it would look in the detail, but there			
9	brought in Mr. MacIsaac out of—actually, he	9	was no external expertise sought at that			
10	was at the time, the president of	10	time, was there?			
11	Newfoundland and Labrador Hydro. He brought	11	MR. ROBERTS:			
12	him in to oversee the construction side, the	12	A. No, I mean, again I can say that through the			
13	completion of the construction side on the	13	course of my career when I was with X-Wave			
14	transmission components of it and was there	14	and we were acquiring companies and merging			
15	then because of his operating experience as	15	companies, my time in growing the call			
16	former VP, his engineering and so forth, to	16	centre industry here in the province and			
17	then be the one who would be operating and	17	outside the province and across Canada, I've			
1 - 1		18	advised many senior management members on			
18	that's now Jim's role, of course, Mr.	10	,			
	that's now Jim's role, of course, Mr. Haynes, in terms of being the future	19	how to structure that and organize that and			
18						
18 19	Haynes, in terms of being the future	19	how to structure that and organize that and			
18 19 20	Haynes, in terms of being the future operator of those assets. Those assets by	19 20	how to structure that and organize that and give them feedback. It's ultimately always			
18 19 20 21	Haynes, in terms of being the future operator of those assets. Those assets by definition were already unregulated. You	19 20 21	how to structure that and organize that and give them feedback. It's ultimately always their decision in terms of how they			
18 19 20 21 22	Haynes, in terms of being the future operator of those assets. Those assets by definition were already unregulated. You know, he would have identified this new	19 20 21 22	how to structure that and organize that and give them feedback. It's ultimately always their decision in terms of how they structure the company with the support of			

Page 261 Page 263 felt they needed a cold-eyes review of that, 1 perspective. And then, of course, as that 1 2 perhaps would go out and seek assistance 2 work was ongoing, we did have our initial 3 3 from a third party if they felt that they meeting with the Board and the senior 4 needed it or they wanted a second opinion. 4 executive here, where they presented some 5 There's nothing wrong with that, but again, 5 initial findings. And it was actually after 6 I think in this particular case, consistent 6 that that we recognized the value that they 7 with my experience in the past, is that we 7 could bring in terms of coming into these 8 deemed that not to be necessary. We also 8 proceedings. So, that is an example of 9 where the Board has been engaged and with have a very informed and educated Board of 9 10 Directors with equally impressive 10 Mr. Marshall and the executive team in terms credentials and they, too, weighed in on the 11 11 of looking to the future for that and 12 structure that was being advocated and all 12 getting some third-party advice. felt very comfortable with it. 13 GREENE, Q.C.: 13 14 **GREENE, O.C.:** 14 O. So, Power Advisory was retained in May of 15 So, the answer to the question was no, there 15 this year we understood from Mr. Dalton. Q. 16 was not external expertise sought. And 16 MR. ROBERTS: 17 since that time, up to the point in time 17 That's correct, yeah. GREENE, Q.C.: 18 when Power Advisory was retained, did you 18 19 consider it appropriate at any time since 19 While the reference work was—this particular O. 20 then to ask for any external assistance in 20 reference work was ongoing? the appropriate structure? 21 21 MR. ROBERTS: 22 22 Yes, I would imagine. Yes. MR. ROBERTS: 23 Well, actually, that's interesting that you 23 GREENE, Q.C.: A. 24 bring that up because that is the initial 24 Can we go to your Slide 6, please? And that Q. 25 25 Page 262 Page 264 1 purpose in which we reached out to Power 1 would be—yes. One of the underlying 2 2 objectives is stated there to have been Advisory. So, Mr. Marshall recognized that, 3 you know, we're nearing completion of 3 ensuring efficiencies and you call it "cost 4 construction, we're starting to operate 4 optimization." I say "lowest cost" or to 5 5 these assets and expect, you know, the full ensure that the costs that are incurred are 6 operation of these assets next year. And appropriate. Is that correct? 6 7 there's been ongoing discussion inside the 7 MR. ROBERTS: 8 company in terms of the appropriate 8 That's correct. 9 structure and how that structure could 9 GREENE, O.C.: 10 evolve. And it was agreed and the—actually, 10 And I'll come back to that. Prior to 2016, 11 the Board's Chair, Mr. Brendon Paddick, what was the thought then about how you 11 approached me and asked if I would actually 12 12 would actually operate and maintain the provide some third-party assistance in terms Muskrat Falls' assets? I'll ask Mr. Haynes. 13 13 14 of getting some advice as to how 14 You weren't there at that time, were you, in 15 15 organizations that could be described as twenty—so, before you retired, was there any 16 similar to ours would be structured. And 16 discussion then around the plan for operation and maintenance of the new assets? 17 so, on that request, we had reached out to--17 18 myself and Mr. Hull, it's been referenced, 18 MR. HAYNES: 19 have reached out to Power Advisory and asked 19 Before I retired, the thought and the A. 20 them to begin this process and to conduct 20 intention was that they would be operated by Hydro people. You know, there was no change 21 sort of an environmental scan as to how 21 22 organizations similar to ours were 22 in the PPAs and things like that, but there 23 structured, not necessarily from an internal 23 was no division called, quote on quote, 24 perspective, but from the boarder 24 called "Power Supply," that they would be 25 25

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1	operated through Newfoundland and Labrador	1	similar to Mr. Haynes expressed what he			
2	Hydro, through operators and so on. That	2	understood the plan to be or had that been—			
3	was the intent when I retired as my—as I	3	were you aware of that plan?			
4	recall.	4	MS. WILLIAMS:			
5	GREENE, Q.C.:	5	A. Yes, I believe I—this all happened fairly			
6	Q. And can you explain why that would be? Is	6	quickly after I took the role on, the change			
7	it because that Muskrat Falls would be	7	I'll call it to the current organization and			
8	another hydro plant similar to Churchill	8	I believe a conversation at one point that			
9	Falls? Is it correct that at one time,	9	Muskrat would probably come under the same			
10	Hydro was also responsible for Churchill	10	purview as if consistent with what Mr.			
11	Falls?	11				
12	MR. HAYNES:	12	GREENE, Q.C.:			
13	A. Hydro provided service to Churchill Falls.	13	Q. Okay. Could we go to slide 10 now in Mr.			
14	GREENE, Q.C.:	14	Roberts' presentation, please? I wanted to			
15	Q. Churchill Falls reported into Hydro.	15	talk first about the growth in the FTEs from			
16	MR. HAYNES:	16	2016 to 2019. Can you give us an			
17	A. Yes, it did, yes, but I think there were	17	understanding of the areas where FTEs were			
18	shared services from Hydro into CF(L)Co,	18	added that caused it to grow from 1463 to			
19	from an HR financial point of view. When I	19	1654?			
20	went to Churchill Falls, most of the	20	MR. ROBERTS:			
21	engineering was pretty well self contained	21	A. Yes, I can do that at a high level. So, the			
22	in Churchill through contractors and I was	22	majority of the people that would have been			
23	part of effort, well the gentleman who was	23	added during this period of time are the			
24	looking after that before moved out to Hydro	24	people who are both tasked with helping to			
25	<i>g</i>	25	commission and test the equipment that's			
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1	and engineering and was kind of a natural.	1	coming into operation and the people who			
2	Some of the engineering was done, but the	2	will ultimately operate the equipment. So,			
3	capital program was growing obviously.	3	we are starting to staff up the number of			
4	GREENE, Q.C.:	4	people that will be there to run these			
5	Q. Right. And at that time, who would have	5	assets over a period of time. So, that's			
6	provided the overall executive direction	6	the majority of what's driving those			
7	with respect to the Churchill Falls plant?	7	numbers. There are other things going on			
8	MR. ROBERTS:	8	inside the company. In addition to the			
9	A. It would have been through—my boss was Dave	9	technical people, there would be corporate			
10	Collins, he was the president of CF(L)Co and	10	service type of people. Those numbers are			
11	executive vice president of Hydro.	11	much more modest, of course, but there are			
12	GREENE, Q.C.:	12	term and temporary people that have been			
13	Q. Of Hydro, right. Moving up, Ms. Williams,	13	brought into roles to help with the			
14	you were—I may not have the correct title,	14	organization of things. Like for example,			
15	but I understand you were responsible for	15	we have over 400 new environmental			
16	Hydro production at Hydro prior to your	16	commitments that we have to manage and			
17	appointment to—you were regulatory affairs	17	monitor. So, they're helping to identify			
18	and then responsible for Hydro production.	18	and set those up for my team then to			
19	Were you involved in any general planning or	19	administer after the fact. As I said, we're			
20	discussions around how the Hydro assets	20	implementing a new IT system, new software;			
21	would operate?	21	that's driving some of those numbers. So,			
22	MS. WILLIAMS:	22	it's really the evolution of this			
23	A. No.	23	organization and how it's changing			
24	GREENE, Q.C.:	24	dramatically in terms of its profile of			
25	Q. Well, did you have any understanding,	25	operations and assets that has led to having			
	Z. "Ton, ara jou may and	23	Sperations and abbots that has led to having			

Page 269 Page 271 to bring in this additional resources to 1 **CERTIFICATE** 2 manage us through that period. And then as 3 we approach and get towards the steady I, Judy Moss, hereby certify that the foregoing is a 4 state, you see us return to the numbers that true and correct transcript in the matter of Reference 5 we were at before. to the Board, Rate Mitigation Options and Impacts, 6 GREENE, O.C.: Muskrat Falls Project, heard on the 10th day of Q. 7 It's almost 1:30. I wonder if when we October, 2019 before the Newfoundland and Labrador 8 reconvene tomorrow morning, Mr. Roberts, if Board of Commissioners of Public Utilities, 120 Torbay 9 you could have the breakdown of what that Road, St. John's, Newfoundland and Labrador and was 10 actually increase is between those who were transcribed by me to the best of my ability by means hired between 2016 and 2019 that would have 11 of a sound apparatus. 12 been responsible for the commissioning and 13 testing and those who were hired for Dated at St. John's, Newfoundland and Labrador this 14 continued operations. I'd like a further 10th day of October, 2019 15 breakdown of that approximate—we're talking 16 about almost 200 people. So, can you—and then we'll talk about you see it decreasing 17 Judy Moss after that, where those numbers are. So, if 18 19 by tomorrow morning we could have—you gave 20 us general areas, but you didn't give us any 21 FTE how they add up for the difference. 22 MR. ROBERTS: 23 I will certainly do my best and endeavour to 24 have my team pull that together. 25 GREENE, Q.C.: Page 270 Well, it's the heads up where we'll begin 1 A. 2 tomorrow morning. 3 MR. ROBERTS: 4 I appreciate the heads up. Thanks you. A. 5 CHAIR: 6 Thank you. Thank you, Ms. Greene, we'll Α. 7 reconvene at 9:00 tomorrow morning. 8 Upon conclusion at 1:28 p.m.. 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

## Α

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